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I.
INTRODUCTION
Brief History of the Department

The Department of Statistics was formed in 1962 as the Graduate Institute of Statistics with the mandate of providing statistical research, consulting, and instruction for Texas A&M University. The Department was authorized from its inception to grant MS and PhD degrees. Prior to 1962, a number of different departments provided the few statistics courses taught at the undergraduate and graduate level. H.O. Hartley was the Institute's first Director and by the fall of 1964 the Department consisted of a faculty of five with twelve graduate students.

The Department resided in several locations prior to its moving to the Olin E. Teague Building in 1966. The construction of this building was greatly assisted by an NSF Center for Excellence grant obtained by Professor Hartley and others. The university’s computing center also resided in the Teague Building. The rapid expansion of the university during the 1970s and subsequent demands for space by the computing center resulted in the Institute moving to its current location on the fourth floor of the John R. Blocker Building in 1981. In the fall of 2004, the Department acquired additional office space on the fifth floor of the Blocker Building.

The Graduate Institute of Statistics was included in 1966 as a member of the newly formed College of Science and in 1984 acquired its current name, the Department of Statistics. In 1977, Dr. Hartley retired and was succeeded by Dr. William B. Smith. By the early 1980s the Department had grown to 18 faculty members with 40-50 graduate students. The next two department heads were Dr. Raymond J. Carroll, appointed in 1986, and Dr. H. Joseph Newton in 1990. The faculty by this time had grown to 25 members with 60-65 graduate students. Along with this increase in the size of the faculty and graduate student population was a concurrent increase in research productivity and funded research. Another indicator of the university's high regard for the Department was the designation of Drs. Manny Parzen and Raymond J. Carroll as Distinguished Professors. At the time, there were only 46 faculty members currently holding the title of Distinguished Professor at Texas A&M University.

In 1998, Dr. James Calvin was appointed to head the Department, which, at that time, consisted of 26 faculty members with 60-65 graduate students. Dr. Calvin served as Department Head for 6 years.

With the appointment of Dr. Simon Sheather in March 2005 as Department Head, the department embarked on two major initiatives in the area of online teaching. In 2006, the Texas A&M University System Board of Regents approved the introduction of the Master of Science degree in Statistics for distance delivery. The first cohort of 20 students started the program in Fall 2007. By the Spring 2014 semester there were over 400 students enrolled in online statistics graduate courses, with 292 seeking an M.S. degree. Over 100
students have completed the program and received their M.S. degree in Statistics. The distance master’s is a key source of revenue for the Department, and arguably the most successful statistics distance-learning program in the nation. Further details regarding the distance learning masters program is provided in Appendix A. In 2012, a second distance-learning program was initiated when an agreement was reached with the Mays Business School to offer a joint MS Analytics program; this program began in Fall 2013. The Analytics program has experienced great initial success, and in the Fall of 2014 28 students enrolled in the program. The first cohort of students is expected to graduate in May 2015. Further details regarding the MS Analytics program is provided in Appendix B. In addition to the distance M.S. programs in Statistics and Analytics, a “fast track” PhD program was introduced in 2008, and a Certificate of Applied Statistics was approved. In 2009, a joint TAMU/SAS certificate was introduced and the number of supported on-campus graduate students was expanded with the introduction of Technology Teaching Assistants. The Department also added two more Distinguished Professors, Drs. Clifford Spiegelman and Bani Mallick.

A history of the Department was published on its 50th anniversary in 2012, and the anniversary was celebrated the following year in March. A short video prepared for this gathering is available online at https://www.youtube.com/watch?v=A9v2dZ5C5Ei.

In March of 2014, Dr. Valen Johnson was appointed as Department Head. Dr. Johnson was recruited to the Department in 2012 as one of three faculty hires supported by the Applied Mathematical, Statistical and Computational Sciences (AMSCS) white paper, which had been selected as a research landmark area in 2009.

From its inception, the Department has been substantially involved in collaborative research. Dr. Hartley and the faculty had research grants and contracts from ONR, NASA, Army Research Office, and National Center for Toxicological Research. For over twenty years, the Texas Agricultural Experiment Station provided funding for statistical consulting. The Department was actively involved in the development of the Center for Environmental and Rural Health, an NIEHS funded research center. Also, several faculty members greatly assisted in obtaining the competitive renewal of Texas A&M University's EPA funded Superfund Basic Research Program. In 2001, Professor Carroll received a grant from NCI to establish a two-year training program in Bioinformatics. The success of this program has resulted in the grant being renewed through 2016. A number of faculty have also been appointed as adjunct faculty at M.D. Anderson Cancer Center (MDACC),

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and several students and post-doctoral researchers are currently jointly supported by MDACC and Departmental faculty.

The Department has established four major lecture and award series. The H. O. Hartley Memorial Lecture series was established in 1988 to honor the memory of Herman Otto Hartley. Past speakers include Peter J. Diggle, Bradley Efron, E.J. Hannan, Sir David R. Cox, Wayne Fuller, Adrian Raftery, Peter Hall, Terry Speed, James Berger, Edward George, Regina Liu, and David Dunson. The Parzen Prize for Statistical Innovation was established in 1994. Past awardees include Grace Wahba, Donald P. Rubin, Bradley Efron, C. R. Rao, David R. Brillinger, Jerome H. Friedman, Alan E. Gelfand, Nancy Reid, Marvin Zelen, Roger Koenker, Adrian Raftery, and Trevor Hastie. The Department established the third lectureship, the Ronald R. Hocking Lecture Series, in 2002 to recognize exceptional contributions to the field of linear models and their generalizations. Past speakers include Ronald Hocking, David Harville, Dallas Johnson, Ramon Littell, Michael Kutner, Tim Hesterberg, Brian Marx, Oliver Schabenberger, John Sall, Garrett Fitzmaurice, and Goutam Chakraborty. In 2009 the fourth award and lecture series, the Raymond J. Carroll Young Investigator Award, was inaugurated. This award is bestowed in alternate years on a junior investigator who has made outstanding contributions in the area of statistics. Past recipients include Samuel Kou, Marc Suchard, and Tyler J. VanderWeele. All four of these lecture/award series have provided the Department’s graduate students with the opportunity to interact with pioneers in the statistics profession.

The Department also presents several prestigious internal awards to outstanding former and current students. Among these is the Margaret Sheather Memorial Award in Statistics, which was awarded from 2010-2014 and was presented annually to the student(s) with the most outstanding master’s project(s). In 2015 this award was re-established as the Margaret Sheather Memorial Award in Analytics and in the future it will be awarded to the MS Analytics student(s) with the most outstanding capstone project(s). The Hartley Award is presented annually to a former student for distinguished service to the discipline of statistics. The William S. Connor Award is presented annually to the student whom the faculty deems most outstanding amongst those students passing the preliminary examination during the current year. A description of funds raised to support these awards, as well as the lecture series above, is provided in Appendix G.

The Department’s students frequently also attract external awards. Notable among these are the success of our graduate students in recent Capital One Statistical Modeling Competitions. The Department fielded the winning team and a finalist team in 2012, another finalist team in 2013, and the winning and a finalist team in 2014. A list of these awards and other student honors appears on page 51.

The Department does not currently offer an undergraduate degree in statistics. However, undergraduates can obtain a concentration in statistics, and the Department developed, in conjunction with
the Mathematics Department, a statistics option within the BS degree in Applied Mathematical Sciences. The Department also offers a minor in statistics. The Department’s undergraduate course offering has grown to over ten courses with approximately 5,700 undergraduates enrolled per academic year. Besides the courses offered to its MS and PhD students, the graduate service courses have an enrollment of over 1,500 students per academic year.

For many years, the Department hosted a Statistics Advanced Placement Summer Institute on-campus for high school mathematics teachers, and, thanks to the dedication of our Emeritus Professor James Matis, will begin doing so again this summer. This institute provides an opportunity for the Department to interact with AP statistics teachers, and it is our hope that this interaction will serve as a mechanism for advertising the Department’s role in undergraduate statistics education to high school students across the state.

In 2012, members of the Department formed Texas A&M Statistical Services, LP, an external consulting center that provides 99% of its profit to Texas A&M University. Drs. Simon Sheather and Edward Jones serve as President and Executive Vice President of this limited partnership.

After a period of sustained growth in the number of faculty, from 5 full-time tenure-track faculty members in 1964 to 26 tenure-track faculty members in 2000, the growth in the number of tenure-track faculty has ebbed and flowed since the turn of the century, this despite the dramatic increase in the number of students taking, or wanting to take, statistics courses. The problem has been partially offset by the addition of a highly qualified group of senior lecturers, which is supported from soft money resources. This problem is discussed further in the Challenges and Opportunities Section below, but it is clear that the Department has a pressing need to expand its course offerings to meet the increasing demand for statistics courses in the era of “Big Data.” This need can only be satisfied with an increase in the size of its faculty.
Mission and Goals

Statistical science is a broad discipline that encompasses activities from data acquisition and processing, exploratory data analysis, complex modeling of stochastic processes, inference, hypothesis testing, parameter estimation, uncertainty quantification, casual inference, and decision making under uncertainty. The Department’s mission is to function as a leading international center for statistical research, education and service.

Faculty members in the Department contribute to a broad spectrum of research in statistical methodology and application, and faculty in the department have received numerous national and international awards for their contributions to statistics. Faculty members in the Department have received the COPPS Award (Carroll), Noether Senior Scholar Award and Lecture (Carroll, Spiegelman), and the Wilcoxon Prize (Carroll). (A more complete listing of faculty awards is provided in on page 80).

Current strengths of Department include spatial statistics, Bayesian methodology, functional data analysis, modeling of measurement error, non-parametric methods, and analysis of high and ultra-high dimensional data. Further discussion of the faculty’s research productivity is provided in the Analysis section below.

As part of a land-grant university, the Department takes its responsibility for statistical education very seriously. The Department teaches approximately 5,700 undergraduate students each year. A vast majority of these students enroll in service courses designed to provide a rudimentary understanding of statistics that will allow them to interpret scientific findings in their fields of study, as well as to interpret statistical analysis reported in popular media, government studies and business reports. The more advanced of these courses also provide students with background in experimental design, the statistical analysis of simple experiments and observational studies, and regression analysis.

In addition to undergraduate service courses, the Department also teaches approximately 1,500 graduate-level students from other departments. Many of these students come from the College of Engineering, but it is common for graduate students from across the university to enroll in the Department’s graduate course offerings to satisfy requirements in their degree programs.

A major extension of the Department’s educational mission has been to provide Texas (as well as other U.S. and foreign) students with an opportunity to obtain graduate training remotely through our distance learning program in statistics. The TAMU distance master’s program is one of the largest programs in the nation, having conferred over 100 master’s degrees to program participants since its beginning in 2007. A similar extension of the Department’s educational mission began in 2012 with the start of the Master of
Science degree in Analytics. This program will likely soon enroll approximately 50 students each year into the rapidly expanding field of applied statistics.

Faculty members in the department also play a major role in service to the University, to the international statistics community, and to the broader general scientific community. During the last three years, faculty members in the Department have served as editors or co-editors of three statistical journals: *Chemometrics & Intelligent Laboratory Systems*, *Journal of Nonparametric Statistics*, and *Bayesian Analysis*. In addition, they have filled 25 associate editor positions for numerous other journals, including the *American Statistician*, *Biostatistics*, *Chemometrics & Intelligent Laboratory Systems*, *Electronic Journal of Statistics*, *Journal of Biometrics & Biostatistics*, *Journal of Business and Economics*, *Journal of the American Statistical Association: Applications & Case Studies*, *Journal of the American Statistical Association: Theory & Methods*, *Journal of Computational and Graphical Statistics*, *Journal of Nonparametric Statistics*, *Journal of Transportation and Statistics*, *SIAM Journal of Uncertainty Quantification*, *STAT*, *Statistics*, and *Statistics & Probability Letters*. A detailed listing of editorial service provided by Departmental faculty is provided on page 82.

The Departmental faculty are also actively engaged in service to the University, and have been instrumental in influencing its direction on both administrative and scientific matters. At the College level, faculty members have served on the Faculty Advisory Committee, the Diversity Committee, and the Dean Search Committee.

At the University level, Departmental faculty members have served on dozens of policy making committees and bodies, including the Association of Former Students’ College-Level Teaching Awards Member Selection Committee; Core Curriculum Technology Enhanced Grant Committee; Department Heads Council; Distinguished Award Committee; Email Selection Advisory Committee; External Advisory Board for AgriLife Genomics and Bioinformatics Services (TAGS) Core; Faculty Senate; Faculty Senate College of Science Caucus; Massive Open On-line Course Exploration Committee; Massive Open On-line Course Advisory Committee; President’s Council on Climate and Diversity; President’s Task Force for Faculty Evaluations; Price, Waterhouse & Coopers Advisory Committee; Strategic Planning Committee Strategic Re-allocation Sub-council; Undergraduate Academic Appeals Panel; and the Workplace, Climate & Diversity Committee.

In service outside of the University, faculty members have played a significant role in setting national science policy and participating in the governance of major scientific organizations. For instance, faculty members in the Department have served on the National Academy of Science Strategic Highway Research Program and the Board of Trustees for the National Institute of Statistical Standards. They have also assisted in the governance of the American Statistical Association (ASA), the nation’s largest organization devoted to
statistical science. During the last three years, faculty have served on the ASA’s Noether Senior Scholar Award and Noether Young Scholar Award Committees and have been elected as members of the ASA Section on Statistical Consulting. They have served on the Steering Committee for the ASA Conference on Statistical Practice, have co-chaired the ASA Committee on Membership and Retention, and have served on both the ASA Task Force on Membership Growth and as the ASA representative to the AAAS. Faculty members have also served on NSF and NIH review panels.
Administrative Structure of the Department

The graphic below depicts the organizational chart for the Department. Duties and responsibilities for faculty members in the department, and in particular for faculty holding administrative positions in the Department, are described in the Faculty Bylaws, which were adopted in the spring of 2015 and appear in Appendix J. Noteworthy features of the chart include the MS Analytics and Online Program, as well as the lack of an Undergraduate Advisor.

As discussed below, the Department is currently in the process of creating an undergraduate degree program in statistics. We anticipate that this degree will begin in the Fall of 2016. An Undergraduate Advisor will be appointed in the Fall of 2015 when this program is approved at the university level.

The MS Analytics and Online Program manages the distance learning master’s degree program and the newly instituted MS Analytics program. The Academic Director of the Program is Dr. Simon Sheather, and salaries of the Program staff are paid from the revenue that the Program generates. The program also provides partial salary support for Nathan Segrest, who assists with the program’s IT structure, as well as providing partial support for Technical Teaching Assistants (TTAs), who support the distance learning and analytics programs.

In addition to the administrative structure depicted in the organizational chart, the Department also hosts the Center for Statistical Bioinformatics and the Institute for Applied Mathematics and Computational Science (IAMCS). It also sponsors a training program in bioinformatics and nutrition. The entities are described in Appendices D-F.
Resources

The physical home for the Department of Statistics is the Blocker Building, dedicated in 1983 and named in honor of John R. Blocker, a member of the class of '45 and former member of the Texas A&M University System Board of Regents. The Blocker building is a workhorse for teaching and study at Texas A&M University with its numerous lecture halls, classrooms and labs. In addition to housing the Department of Statistics, it is also home to a computer lab for general use by all A&M students, the Department of Mathematics, Health and Kinesiology, and the Dean's Office for the College of Science. The Department of Statistics occupies the entire fourth floor, which contains 25,000 square feet divided into 105 offices used by faculty, visitors, lecturers, post docs, graduate students and staff. In addition, the department controls five conference and/or meeting rooms, three class and/or seminar rooms and a server room.

The Department of Statistics operates a hybrid-computing environment of over 300 Windows, Mac and Linux systems to meet the computing needs of its faculty and students. The Department controls much of its own computing infrastructure and employs three full time IT professionals to oversee operations. Faculty have regular and recurring access to computing funds, ensuring their personal systems are up to date. A partial list of statistics software available includes Matlab, R, Stata, SAS, JMP and high performance commercial compilers. For computationally intensive research, the department operates a 20-node / 500 core Linux cluster. For teaching, it operates three computing labs with approximately 50 computers in each. Exclusive access and control of these resources enables the cluster and labs to be configured and tuned for statistics faculty research and teaching requirements.

Texas A&M University operates multiple research computing clusters to which faculty have access. These include: “Ada,” a 845 node / 16900 core x86 cluster with a peak performance of 337 TFlops, 4PB storage and FDR network fabric; “Neumann,” a 2048 node / 32768 core Blue Gene Q cluster with a peak performance of 419 TFlops and 2PB of storage; “Eos,” a 412 node / 3552 core x86 cluster, 500TB storage and a QDR Infiniband fabric; “Brazos,” a 300 node / 3000 core x86 cluster, 200 TB storage and DDR Infiniband fabric. Several of these clusters contain special compute nodes with up to 2TB of RAM or with GPU equipped nodes. Two smaller Power P7+ clusters with 23 and 49 nodes are available as well. The aggregate peak performance of these computing resources is over 800 TFlops with more than 6PB of storage.
Analysis

The preeminent goal of the Department of Statistics is to establish itself as an international center for statistical research, education and service. In many ways, the department has achieved this goal: It is currently ranked among the top 15 statistics departments in the nation by US News and World Report (sixth among public institutions), and has been ranked as high as 11 (2010). Of course, it would be a mistake for the department to assess its success based entirely on such rankings, although it is necessary for the Department to establish goals and a set of metrics to be used in evaluating its progress toward achieving these goals. In this regard, the imperatives and metrics established by the University in assessing Vision 2020 goals are useful, as many of these imperatives and metrics are highly correlated with external rankings of the Department by entities like US News and World Report. They also coincide well with the goals that the Department has set for itself.

Four of the twelve imperatives in the University’s Vision 2020 focus on enhancing the undergraduate experience, building the letters, arts & sciences core, strengthening the graduate program, and building on the tradition of professional education.

The key metrics that are being applied by the University to the Department to assess progress toward achieving the Vision 2020 goals involve the following outcomes:

- Publications by faculty
- Citations of faculty publications
- Grant funding attracted by faculty
- Honors and awards
- Master’s of Science two-year graduation rates
- Doctoral five-year graduation rates

Before discussing assessment criteria and how the Department has performed according to them, it is useful to first discuss the major initiatives that the Department is undertaking and how they support the four Vision 2020 imperatives listed above.
Undergraduate Program

Beginning in the fall of 2014, the Department's faculty endorsed several proposals to develop an undergraduate Bachelor of Science degree program in Statistics. Over the course of the next several months, the faculty (notably Drs. Dabny and Wehrly and other members of the Undergraduate Committee) developed and submitted a completed proposal to the College of Science (February 2015). This proposal is now working its way through administrative channels, and it is expected that the program will begin in the fall semester of 2016.

The undergraduate degree program will benefit the Department and University in numerous ways. First and most obviously, it will provide Texas A&M University undergraduates with an opportunity to obtain a highly marketable degree in arguably the most interesting of all fields of study. Studies that attest to the marketability of statistics degrees abound and are described more fully in Appendix C. For convenience we repeat here two typical conclusions cited in that appendix:

According to the National Center for Education Statistics (NCES) Digest of Education Statistics (DES), the number of Bachelor of Science degrees in statistics increased 40% from 2009 to 2011, 78% from 2003 to 2011, 26% from 2011 to 2012, and 20% from 2012 to 2013.

According to the Bureau of Labor Statistics, there were 24,950 workers classified as statisticians in 2013. This represents a 21% increase in the five years since 2008. The field was projected to grow by a further 27% (classified by BLS as “much faster than average”) during 2012 – 2022.

In terms of Vision 2020 imperatives, the addition of an undergraduate statistics program will enhance the undergraduate experience at Texas A&M University, and it will substantially strengthen the University’s science core. The addition of this major will also have numerous benefits for the department. As the number of majors in the program grows, additional faculty lines will be provided to the Department (one new faculty line per 50 undergraduate majors). The addition of the major will also provide faculty with greater opportunity to teach advanced undergraduate courses in statistics. A subset of these advanced undergraduate offerings will be made available to our distance-learning master’s students, which will provide them with more elective opportunities to satisfy their degree requirements. Finally, the addition of an undergraduate major will enhance the reputation of the Department both within and outside of the University.

A major impediment that the Department faces in establishing the undergraduate degree is its lack of control over a large classroom. This prevents the department from teaching large service courses in one or two sections, instead requiring it to devote substantial resources to teach these courses in multiple smaller sections. As the Department develops its undergraduate major, access to large classrooms in which to teach service courses will be essential if the Department is to broaden its offering of more advanced undergraduate courses in statistics.
Graduate Program

The Department is also striving to enhance the quality of its graduate program. Since the last Academic program review, the department has undergone two major reviews of the graduate program, with the second still underway. In 2008, the Department restructured its graduate program and separated the qualifying exams for MS students and Ph.D. students. Prior to 2008, MS students and Ph.D. students took the same courses during the first year in the graduate program and took the same qualifying exam in August of their second year. This arrangement delayed the progress of students who entered the program with strong background in statistics. To address this problem, a fast Ph.D. track was created to allow students with strong background to advance more rapidly to the completion of their degree. This structural change also played an important role in maintaining a distinction between doctoral and master’s level courses as enrollments in the distance-learning master’s program skyrocketed.

The 2008 restructuring also established a core curriculum for the Ph.D. program that consisted of seven courses: Probability Theory (STAT 614), Asymptotic Statistics (STAT 620), Linear Models (STAT 612), Methodology I (STAT 613), Applied Statistics and Data Analysis (STAT648), Computational Statistics (STAT 605), and Methodology II: Bayesian Statistics (STAT 632). Students were required to take three qualifying exams from the first six courses listed in this core, with two courses forming the basis for each exam. That is, the Theory Exam covered material taken from STAT 614 and 620; the Methodology Exam covered material taken from STAT 612 and 613; and the Applied and Computational Exam covered material from STAT 648 and 605. Students who passed two of the three exams were advanced to Ph.D. candidacy. Students were given two chances to pass the qualifying exams.

The 2008 restructuring of the graduate program alleviated a number of problems associated with the program, perhaps most importantly by creating a mix of classes that were appropriate for presentation to students at either the master’s or doctoral level. It also provided for a more rapid route for incoming students with strong backgrounds in mathematics or mathematical statistics to move beyond the qualifying exam and begin thesis research.

The revised structure of the program did not resolve a number of other existing problems, however. As implemented, the program created a barrier that prevented students who had failed the doctoral exam from quickly completing a master’s degree. Part of this problem stemmed from the fact that the courses required for the doctoral degree were different from those required for the master’s degree. Students who failed the doctoral qualifying exam often needed to take additional courses to obtain a master’s degree, despite the large overlap in material covered in some master’s and doctoral courses, with material covered in the doctoral courses being taught at a higher level. In addition, separate qualifying exams were administered to doctoral and master’s students, and there was no mechanism for students who failed the Ph.D. qualifying exam to be given a pass on the master exam without sitting for the master’s exam at a later date. Finally, by requiring students to pass only two of three qualifying exams, and giving students the option to take the examination twice, many students did not pass (or fail) the qualifying exam until August of their third year in the program. Students who failed the exam in their third year were then provided with up to
four years of funding to complete a master’s degree. These problems have hindered the Department’s effort to meet Vision 2020 goals of graduating 75% of MS students in two years, and 50% of PhD students in five years.

To address these problems, Dr. Jianhua Huang, Graduate Advisor, and other members of the Graduate Committee began another review of the graduate program in the summer of 2014. That review is ongoing, but changes made to the program as a result of this review currently include the following:

- The department’s course list was revised to clearly identify the levels at which statistics graduate courses are taught (MS versus PhD), with a stipulation that MS level courses do not satisfy certain PhD level course requirements.
- Upon approval of the Associate Department Head, students in the master’s program are permitted to substitute PhD courses toward their degree requirements.
- All students can take the PhD qualifying exam in lieu of the MS qualifying exam; outcomes of PhD qualifying exam were modified to include PhD pass, MS pass, fail, and pass at either level contingent on further course work.
- All PhD students are required to take at least 5 PhD level electives.
- All PhD students are required to take 2 credits of statistical consulting (STAT 684)
- Core PhD courses are evaluated using the following criteria:
  - “A” represents PhD level work
  - “B” represents MS level work
  - “C” represents work not at graduate level
- The written Ph.D. qualifying exam will be offered in May, two weeks after the spring semester final exams.
- Course grades and exam grades are both considered in evaluating the outcome of the doctoral qualifying exam.
- Students with strong incoming background can take the doctoral exam after first year of courses; all other students take the exam after their second year. The PhD qualifying examination can be taken only once.
- Students must pass a Preliminary Examination administered by the student’s advisory committee within three semesters after passing the PhD qualifying exam.
- The presentation of PhD dissertation research will be open to the public.

In addition to these changes to the program, the Department’s review of its graduate program is continuing, and additional changes are expected after faculty discussion during the spring and summer of 2015. Particular items on the agenda include the following:

- Strengthen international collaborations with universities to (a) improve the visibility of the department, (b) help recruit outstanding graduate students, and (c) gain leverage in funding graduate students.
- Enhance and standardize the departmental student award system. Create new awards for outstanding course work and outstanding research. Standardize the procedures for providing support for students to travel to conferences and workshops.
- Expand the number of specialization areas available to PhD students. The Department will consider more applied PhD tracts in areas like bioinformatics and computational methods for “big data.” The Department
will also explore the creation of dual degree programs with other programs, e.g., geosciences, astronomy, and the social sciences.

- Revisit the list of courses that graduate students are required to take, and reconsider the emphasis given to various courses in the curriculum.

In the area of recruiting, the department is reviewing its recruitment procedures and redoubling its effort to attract top quality doctoral students. Beginning in the fall of 2014, graduate student stipends were increased by approximately 45% to $20,000 per academic year; this increase makes TAMU graduate student stipends commensurate with the stipends received by students at our peer institutions. The Department also streamlined its electronic application procedure and in late February of 2015 sponsored its first Graduate Student Visitation Day. All admitted applicants to the graduate program who were currently residing in the continental United States were provided funds to visit the department on February 27, 2015. During the visitation day, several faculty provided overviews of their research to the students, and the students were familiarized with the Department and campus. A reception was held that evening at the home Dr. Raymond Carroll. Nine of our top thirteen domestic candidates attended this event, and we expect to attract at least four of them to TAMU next fall.

Graduate students in the department play a proactive role in departmental life. In 2009 the Statistics Graduate Student Association was formed. A brief description of SGSA activities is provided on page 54.
Professional Education

The Department of Statistics enrolled its first class into the Master of Science in Analytics program in the Fall of 2013. The program, which is jointly offered with the Mays Business School, offers business and statistics courses to strengthen the quantitative skills of professionals with strong backgrounds in the sciences, mathematics, and engineering fields. Students entering this program acquire quantitative skills applicable in a wide variety of business environments, including manufacturing, utilities, information technologies, healthcare, natural resource management, transportation, supply chain management, finance and insurance, and energy production.

Through the efforts of the Academic Director for MS Analytics and Online Programs, Dr. Simon Sheather, the MS Analytics program obtained two large grants from SAS that facilitated the rapid growth of the program during its first two years. In the Fall of 2014 the program enrolled 28 students, and the Department anticipates that it will enroll as many as 40 students in the Fall of 2015. This represents remarkable growth in enrollments in a field that has become highly competitive over the last five or so years.

The Department’s support of professional education is unique among science departments in the College and reflects the diverse range of employment opportunities that exist for undergraduate and graduate students who have training in statistical science. Further details regarding the program are provided in Appendix B.
Figure 1 illustrates the decline in faculty strength from 2006 to 2014. This decline has adversely affected the Department’s international reputation and rating, as well as its performance on key indicators in assessing progress toward Vision 2020 goals. Although three faculty losses since 2008 have been due to retirement, seven other prominent faculty members left the Department between 2006-2014 for other reasons (Dahl, Genton, Liang (on leave without pay; resigned spring 2015), Ma, Lahiri, Wang, West). These individuals were high performing, mid-career faculty members who generated numerous publications, citations and grant funding. It is important to note that the decline in the size of the Department’s faculty has occurred during a rapid expansion in the size of the University since 2006, and that the University will continue to grow as the College of Engineering expands to 25,000 students by the year 2025.
The genesis for these losses stem from multiple sources and vary from one faculty member to another, but common among them were salaries that were not competitive given their research productivity and external funding records. *In at least three of the seven cases noted above, departing faculty received salary increases of greater than 40% when they left TAMU, and these salary increases were provided by non-peer institutions whose academic reputations are not comparable to Texas A&M University.*

To stem the further loss of our most productive research faculty, the salary “savings” accrued from the loss of one of the departing faculty members was used to provide equity increases to a number of the Department’s most productive remaining senior faculty members. These equity adjustments did, however, result in the loss of an additional faculty line within the Department, and salary inequities continue to be an issue for the Department. Furthermore, this issue is likely to become more severe as the Department attempts to make replacement hires for lost faculty. *The starting salaries required to attract new assistant professors from leading doctoral programs now exceeds the salaries currently provided to the outstanding assistant professors that the department hired only two years ago. Indeed, starting salaries of new assistant professors will soon eclipse the salaries of our remaining associate professors, and it is likely that the Department failed to hire a highly recruited assistant professor candidate in Spring 2015 because it was unable to make a competitive salary offer. Ironically, the success of our faculty (particularly of our junior faculty) is likely to lead to additional attrition if the Department is unable to provide additional equity adjustments for its most productive members, particularly among our junior and mid-career faculty.*

The problem of retaining faculty is further exacerbated by the relative geographical isolation of Texas A&M University: Several of our most productive junior faculty have spouses that have been unable to find suitable employment in College Station and so instead currently work in Houston.
Assessment

As noted above, the University has identified a number of key metrics for the evaluation of the Department. The values of metrics used in this assessment are compiled by Academic Analytics, and our performance on the metrics is judged against a group of peer institutions identified in Vision 2020. This peer group includes the following institutions:

- University of California at Berkeley\(^2/15\)
- University of California at Los Angeles\(^30/30\)
- University of Michigan\(^12/15\)
- University of North Carolina\(^12/20\)
- Georgia Institute of Technology (not included in Academic Analytics summaries of statistics departments)
- University of California at San Diego
- University of California at Davis\(^27\)
- University of Illinois at Urbana-Champaign\(^34\)
- University of Wisconsin\(^12\)
- University of Florida\(^30\)
- University of Washington\(^3/7\)
- Pennsylvania State University\(^20\)
- University of Texas at Austin
- Ohio State University\(^27\)
- University of Maryland
- Purdue University\(^24\)
- University of Minnesota\(^20/24\)
- Indiana University
- Michigan State University\(^47\)

Superscripts in this list denote the 2014 US News and World Report rankings of statistics/biostatistics departments. The Department of Statistics at Texas A&M University ranked 15\(^{th}\) (out of 86 programs evaluated).
Figure 2 provides a summary of the Department’s performance on a variety of academic metrics (plot generated by Academic Analytics). This plot is based on a comparison with 18 other statistics departments at research universities granting doctoral degrees. As this figure demonstrates, the Texas A&M University Department of Statistics excels in essentially all areas of faculty evaluation within this broad comparison group.
Unfortunately, concerns over propriety of data preclude the display of similar diagnostics within our Vision 2020 peer group. For this reason, data from Academic Analytics reports has been redacted and displayed in Table 1, which lists the Department’s ranking among our 18 peer institutions on key indicators of productivity. Note that University of Florida (AG), which contains only one faculty member, has been excluded from the rankings (though their main statistics department is included) and that Georgia Tech does not have a statistics department. These rankings are based on publications, citations and grant information collected from 2010-2013.

Table 1.

<table>
<thead>
<tr>
<th>Metric</th>
<th>Ranking among 18 peer institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of faculty with journal publication</td>
<td>4</td>
</tr>
<tr>
<td>Journal publications per faculty member</td>
<td>9</td>
</tr>
<tr>
<td>Percentage of faculty with journal publication</td>
<td>14</td>
</tr>
<tr>
<td>Total journal publications</td>
<td>4</td>
</tr>
<tr>
<td>Citations per faculty member</td>
<td>9</td>
</tr>
<tr>
<td>Number of faculty with citation</td>
<td>3</td>
</tr>
<tr>
<td>Percentage of faculty with citation</td>
<td>13</td>
</tr>
<tr>
<td>Total citations</td>
<td>6</td>
</tr>
<tr>
<td>Grant dollars per faculty member</td>
<td>8</td>
</tr>
<tr>
<td>Grants per faculty member</td>
<td>14</td>
</tr>
<tr>
<td>Total grant dollars</td>
<td>8</td>
</tr>
<tr>
<td>Total number of grants</td>
<td>7</td>
</tr>
<tr>
<td>Awards per faculty member</td>
<td>5</td>
</tr>
<tr>
<td>Number of faculty members with awards</td>
<td>2</td>
</tr>
<tr>
<td>Percentage of faculty with Award</td>
<td>4</td>
</tr>
<tr>
<td>Total awards</td>
<td>2</td>
</tr>
</tbody>
</table>

There are two general trends apparent from Table 1. First, the Department, as a whole, typically ranks in the top half, and for many metrics in the top quarter, of our Vision 2020 peers.

Second, the Department is less successful on several key metrics that involve the percentages of faculty achieving the outcomes associated with these metrics. This feature of the rankings can be attributed to a small proportion of our faculty that has not been research active in recent years. The department is currently working to address this problem and has recently adopted bylaws that impose minimum publication standards for faculty to maintain in order to avoid unsatisfactory ratings in annual and post-tenure reviews (see Appendix J).
Despite limitations that the Department’s salary structure imposes on retaining and recruiting quality faculty, as well as the decline in the size of the faculty, the Department is poised to make significant improvements to its undergraduate and graduate programs. The addition of new faculty lines stemming from the anticipated success of the undergraduate major in statistics is likely to provide funding for 3-4 additional faculty lines. Changes to the graduate program will help the Department recruit better graduate students, and will decrease the average time required for students to complete their graduate studies. The Department extracts great benefit from its distance learning programs. These programs enhance the reputation of the Department and provide critical revenue to support graduate students, senior lecturers, on-campus research workshops, and student and faculty travel to scientific conferences. With only a moderate increase in institutional support, it is likely that the Department could achieve a top 10 national ranking, among both public and private universities, in most external evaluations of academic programs.

Key resources required by the department include the following:

i) One 250+ seat classroom dedicated to the Department for service teaching. As indicated above, the department is not able to teach its service courses in large classroom settings. This restricts the number of students that can be enrolled in these courses, as well as the number of courses that the department is able to offer.

ii) An increase in-state graduate course fees from $69/credit hour to $150/credit hour. This will allow the department to expand its distance learning master’s program to in-state students.

iii) Reimbursement for graduate course fees for students exempted by the Hazelwood Act. The department has not actively recruited active duty military into the distance learning program because doing so would result in a significant increase in program costs without offsetting revenue.

iv) Equity increases for the Department’s most highly productive junior and mid-career level researchers.

v) Reinstatement of teaching fees to replace IEEF funds. The Department’s IEEF and IEEF-replacement funds for FY13, FY14, and FY15 were $485,010, $436,811, and $388,523, respectively (please refer to Figure 3). This consistent reduction in teaching support has resulted in the loss of a senior lecturer and has further denigrated the Department’s ability to provide service teaching.
Figure 3.

IEEF & IEEF Replacement Funds

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>IEEF Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>$485,010</td>
</tr>
<tr>
<td>2014</td>
<td>$436,811</td>
</tr>
<tr>
<td>2015</td>
<td>$388,523</td>
</tr>
</tbody>
</table>
II.
Student Report
Graduate Program in Statistics

The Department of Statistics offers a graduate program, leading to the degrees of Master of Science and Doctor of Philosophy. The Department also jointly sponsors graduate work with all subject matter area departments in setting up flexible minor programs in statistics.

The Department of Statistics offers two options in its master's degree programs: (1) the Master of Science degree (thesis option) which requires the preparation of a thesis and (2) the Master of Science (non-thesis option) which requires more formal course work in lieu of the thesis. Within either option, students are allowed to choose either a broad-based or specialized program of study. All choices, however, provide a balanced training in statistical methods, computational statistics, and statistical theory, and are intended to prepare the student to adapt statistical methodologies to practical problems.

The aim of the Ph.D. program is to provide comprehensive and balanced training in statistical methods, computational statistics, and the theory of statistics. Particular emphasis is placed on training students to independently recognize the relevance of statistical methods to the solution of specific problems and to enable them to develop new methods when they are needed. The training aims to convey a sound knowledge of existing statistical theory, including the mathematical facility to develop new results in statistical methodology. At the same time, the program is kept sufficiently flexible to permit students to develop their specific interests.
Master of Science Program

Non-Thesis Option

A student seeking the Master of Science degree under the Non-Thesis Option must fulfill the following requirements:

A. Coursework. Note that STAT 601, 651, 652, and 658 may not be used to fulfill any of the coursework requirements listed below.

1) STAT 604, 608, 641 and 642.
2) One credit hour of STAT 681.
3) Two semester credit hours of statistical consulting experience (STAT 684) earned in a minimum of two semesters. Rules governing completing this requirement are given below in Item B.
4) Three semester credit hours of STAT 685 for the preparation of a special problem (see item C below).
5) Eighteen semester credit hours based on one of the emphasis areas outlined below.
6) A total of 36 semester credit hours.

Broad-Based Plan
1) STAT 610, 611
2) Four additional courses from the MS elective courses list.

Biostatistics Emphasis
1) STAT 610, 611, 645 and 646
2) Two additional courses from the MS elective courses list.

Computational Emphasis
1) STAT 610 and 611
2) Two courses in Mathematics (e.g., MATH 609, MATH 610 or MATH 660).
3) Two courses in Computer Science (e.g., CPSC 603, CPSC 654 or CPSC 659).

Applied Emphasis
1) STAT 630, 657
2) Four additional courses from the MS elective courses list.

MS Elective Courses:
STAT 607, 626, 636, 638, 645, 646, 647, 656, 657, 659

B. Substitution of STAT Ph.D. Courses for MS Coursework.
With the approval of the Graduate Advisor and/or Associate Department Head, STAT Ph.D. courses can be used as substitutes for any of the MS courses listed in part A.

C. Consulting Experience. One semester credit hour of STAT 684 can be obtained through the completion of any of the experiences listed below.

1) One semester of service in the Statistical Consulting Center.
2) One semester of a departmentally approved internship.
3) Special experiences, with prior approval from the Department Head or the Associate Department Head that involves the following:
   a. At least one semester of activity
   b. The application of statistical knowledge
   c. Working with non-statisticians
   d. Sufficient statistical supervision.

D. Form a master's advisory committee and complete a special project under the direction of the chairman of the advisory committee. Three semester credit hours of STAT 685 are earned by completion of this project. Upon completion, the student is required to compose a written report and make an oral presentation on the work. The purpose of this project is to familiarize the student with the type of problems that may be encountered in future work and to give the student a chance to develop the ability to present results both verbally and in writing. In many cases, work done during an internship may be used as the basis for the student's master's project. However, this project must be completed under the supervision of the chairperson of the student's advisory committee.

E. Pass the departmental MS examination (see below).

F. Pass a final oral examination. This examination is concerned with the student's coursework and special problem. It is administered by the student's advisory committee.

**Thesis Option**

A student seeking the Master of Science degree under the Thesis Option must fulfill the following requirements:

A. Coursework. Note that STAT 601, 651, 652, and 658 may not be used to fulfill any of the coursework requirements listed below.

1) STAT 604, 608, 610, 611, 641 and 642.
2) One credit hour of STAT 681.
3) Six semester credit hours of STAT 691 for preparation of a thesis (see item B below).
4) Nine semester credit hours based on one of the emphasis areas outlined below. STAT 691 semester credit hours may not be used to satisfy this requirement.
5) A total of 34 semester credit hours.

**Broad-Based Plan**

1) Three additional courses from the MS elective courses list.

**Biostatistics Emphasis**

1) STAT 643 and 644
2) One additional courses from the MS elective courses list.

**Computational Emphasis**

1) At least one course in Mathematics (e.g., MATH 609, MATH 610 or MATH 660).
2) At least one course in Computer Science (e.g., CPSC 603, CPSC 654 or CPSC 659).

B. Substitution of STAT Ph.D. Courses for MS Coursework.

With the approval of the Graduate Advisor and/or Associate Department Head, STAT Ph.D. courses can be used as substitutes for any of the MS courses listed in part A.
C. Form an advisory committee and complete a thesis under the direction of the chairman of the advisory committee. The Department does not insist that this represent an original contribution to the field of statistics. It is intended to train the student in carrying out independently a piece of research; this may represent an application of existing statistical methods in a new area or a comparative evaluation of statistical methods.

D. Pass the departmental MS examination (see below).

E. Pass a final oral examination. This examination is concerned with the student's coursework and thesis. It is administered by the student's advisory committee.

**Master's Diagnostic Examination**

The MS examination covers basic statistical methods. The examination is evaluated with the performance judged to be “Pass” or “Fail.” To receive a Master's Degree, a student must take and pass the exam.

The diagnostic exam is offered twice a year—prior to the beginning of the fall semester and prior to the beginning of the spring semester, and must be taken at the earliest possible time after the student has completed the required courses: STAT 610, 611 (or 630), 604, 608, 641, and 642. Any exception to this time limit must be obtained in writing from the head of the Department.

The results of a student's examination are reported to the faculty of the Statistics Department. If the student's performance is judged to be deficient, the examination may be retaken the next time it is offered. Only one retake of the examination is allowed.

The Ph.D. Qualifying Examination can be taken as a substitution for the Master's Diagnostic Examination. A student must receive a Pass at the MS level or a Pass at the Ph.D. level on the Ph.D. Qualifying Examination in order for the results from the Ph.D. Exam to qualify as a Pass on the MS Exam.
Doctor of Philosophy Program

The breadth of the field of statistics as well as the frontiers of knowledge in a particular research area are emphasized in the Ph.D. program. The student seeking a Ph.D. in statistics is required to fulfill the following requirements. A Ph.D. selection committee will examine the background of entering students to determine if they have the appropriate mathematics/statistics background to successfully complete the program. Those students determined to not have the appropriate background will need to complete some courses in the MS STAT program and/or courses in mathematics.

A. Courses

1) Required Courses – STAT 605, 612, 613, 614, 620, 632, 648
2) At least five courses from the elective course list provided below.
3) Two semester credit hours of statistical consulting experience (STAT 684) earned in a minimum of two semesters. Rules governing acceptable methods for completing this requirement are given below in Item B.
4) Four semester credit hours of STAT 681.
5) A sufficient number of research hours, STAT 691, or additional courses from the Ph.D. Elective Course list or M.S. Elective Courses to achieve a total of at least 96 semester credit hours beyond a Bachelor's degree or 64 semester credit hours beyond a Master's degree.

Ph.D. Elective Courses:  
STAT - 615, 616, 618, 621, 627, 631, 633, 642, 643, 644, 647, 665, 673, 674, 689

B. Consulting Experience. One semester credit hour of STAT 684 can be obtained through the completion of any of the experiences listed below.

1) One semester of service in the Statistical Consulting Center.
2) One semester of a departmentally approved Internship.
3) Special experiences, with prior approval from either the Department Head or the Associate Department Head that involve the following:
   a. At least one semester of activity
   b. The application of statistical knowledge
   c. Working with non-statisticians
   d. Sufficient statistical supervision.

C. Ph.D. Qualifying Examination. The Ph.D. Qualifying Exam will cover the material from the required courses: STAT 614, 620, 612, 613, 605, 648. The student’s performance on the Ph.D. Qualifying Exam combined with the student’s performance in the required courses will then be evaluated as

1) Pass at the Ph.D. level
2) Pass at the Ph.D. level conditional on retaking specified courses
3) Pass at the M.S. level with no option to retake the Ph.D. exam
4) Fail the exam with no option to retake the Ph.D. exam.

The exams will be offered in May every year approximately two weeks after the spring semester final exams. There are two schedules for a student to take the Ph.D. qualifying exam.
Schedule I: Exam is taken in May of the first academic year student is enrolled in the Ph.D. program.

Schedule II: Exam is taken in May of the second academic year that student is enrolled in the Ph.D. program. This schedule is for students that are taking background courses in statistics or mathematics prior to taking the required Ph.D. courses. A student using Schedule II will be evaluated at the end of their second and third semesters in the Ph.D. program regarding whether they will be allowed to continue in the Ph.D. program. Any student who has not taken the Ph.D. exam within two years of their entering the program will automatically be disqualified from the Ph.D. program.

D. Ph.D. Advisory Committee. After passing the Ph.D. qualifying exam, a student must select a faculty member of the Department of Statistics to be the student’s Ph.D. advisor and to direct the student’s research. The student and the selected faculty member should work together to form a Ph.D. advisory committee consisting of two more members from the statistics faculty and a faculty member outside of the department of statistics. A degree plan must be submitted using the electronic degree plan at the OGAPS website. The degree plan will include all required courses, five courses from the Elective Courses list, and sufficient hours to meet OGAPS requirements as listed above.

E. Take and pass the Preliminary Examination administered by the advisory committee within three semesters after passing the Ph.D. qualifying exam (see below).

F. Write a Ph.D. Dissertation and pass the final Defense of Dissertation Examination (see below). The presentation of student’s research in their dissertation defense will be open to the public.

Preliminary Examination

After a student has passed the departmental Ph.D. qualifying examination, formed an advisory committee, submitted a degree plan and has it approved by OGAPS, a student must take the OGAPS required preliminary examination. The prelim exam consists of the following parts:

1) A written examination developed by the statistics members of the student’s advisory committee. This exam is usually waived at the discretion of the departmental committee members.

2) A written examination administered by the member of the student’s advisory committee from outside the Statistics Department. This examination is usually waived.

3) An oral examination administered by the members of the student’s advisory committee. The oral exam generally consists of the student presenting a proposal for the student’s Ph.D. dissertation research and discussing any research results completed at the point of the exam.

Scheduling the preliminary examination can only take place after the student has an approved Ph.D. degree plan on file with OGAPS. The student must successfully pass the preliminary examination within three semesters after passing the Ph.D. qualifying exam and at least 14 weeks prior to the date of the dissertation defense. The results of the examination are reported to OGAPS using the Report of the Preliminary Examination, a form found at the OGAPS website.
The Ph.D. Dissertation

After successfully completing all the required courses and passing the Ph.D. Qualifying Exam, a period of time is to be devoted to formulating a research topic in either statistical methodology or statistical theory under the guidance of the student's dissertation advisor. The proposed research will be presented to the student’s advisory committee during the Preliminary Exam in order to obtain the committees input on the appropriateness of the research. The results of this research must be communicated in a written dissertation satisfying the guidelines established by OGAPS. The research must constitute an original contribution to the science of statistics and may derive new results in statistical theory or methodology or may be concerned with developing statistical methodology in new areas of application.

Once the student's advisory committee feels that the student has completed the dissertation, a final oral examination is conducted by the advisory committee in which the student defends the dissertation. This exam must be scheduled by submitting the Request and Announcement of the Final Examination form to OGAPS at least 10 working days before the final exam date.
Internship Program

Students after one year of coursework are eligible to participate in an internship with a sponsoring company, hospital, or federal agency. The internships are generally a semester's stay at the sponsor's site. If a student participates in one of the internship programs approved by the department head, then the student is given credit for one hour of STAT 684.

In many cases, work done during the internship may be used as the basis for a Master's project. However, this project must be completed under the supervision of the chairperson of the student’s advisory committee.
Undergraduate Course Offerings

201. Elementary Statistical Inference. (3-0). Credit 3. Data collection, tabulation, and presentation. Elementary description of the tools of statistical inference; probability, sampling, and hypothesis testing. Applications of statistical techniques to practical problems. May not be taken for credit after or concurrently any other course in statistics or INFO 303 has been taken.


212. Principles of Statistics II. (3-0). Credit 3. Design of experiments, model building, multiple regression, nonparametric techniques, contingency tables, and short introductions to response surfaces, decision theory and time series data. Prerequisite: STAT 211.

301. Introduction to Biometry. (3-0). Credit 3. Intended for students in animal sciences. Introduces fundamental concepts of biometry including measures of location and variation, probability, tests of significance, regression, correlation, and analysis of variance which are used in advanced courses and are being widely applied to animal-oriented industry. Credit will not be allowed for more than one of STAT 301, 302 or 303. Prerequisite: MATH 141 or 166 or equivalent.

302. Statistical Methods. (3-0). Credit 3. Intended for undergraduate students in the biological sciences and agriculture (except agricultural economics). Introduction to concepts of random sampling and statistical inference; estimation and testing hypotheses of means and variances; analysis of variance; regression analysis; contingency tables. Credit will not be allowed for more than one of STAT 301, 302 or 303. Prerequisite: MATH 141 or 166 or equivalent.

303. Statistical Methods. (3-0). Credit 3. Intended for undergraduate students in the social sciences. Introduction to concepts of random sampling and statistical inference, estimation and testing hypotheses of means and variances, analysis of variance, regression analysis, contingency tables. Credit will not be allowed for more than one of STAT 301, 302 or 303. Prerequisite: MATH 141 or 166 or equivalent.

307. Sample Survey Techniques. (3-0). Credit 3. Concepts of population and sample; the organization of a sample survey; questionnaire design. Basic survey designs and computation of estimates and variances. Prerequisites: STAT 301, 302, 303, or INFO 303.

407. Principles of Sample Surveys. (3-0). Credit 3. Principles of sample surveys and survey design; techniques for variance reduction; simple, stratified and multi-stage sampling; ratio and regression estimates; post-stratification; equal and unequal probability sample. Prerequisite: STAT 212.

408. Introduction to Linear Models. (3-0). Credit 3. Introduction to the formulation of linear models and the estimation of the parameters of such models, with primary emphasis on least squares. Application to multiple regression and curve fitting. Prerequisites: MATH 304; STAT 212.

414. Mathematical Statistics. (3-0). Credit 3. Introduction to the mathematical theory of statistics, including random variables and their distributions, expectation and variance, point estimation, confidence intervals and hypothesis testing. Prerequisite: MATH 221, 251 or 253.

485. Problems. Credit 1 to 6. Special problems in statistics not covered by another course in the curriculum. Work may be in either theory or methodology. Prerequisite: Approval of instructor.
601. Statistical Analysis. (3-2). Credit 4. For students in engineering, physical, and mathematical sciences. Introduction to probability, probability distributions, and statistical inference; hypotheses testing; introduction to methods of analysis such as tests of independence, regression, analysis of variance with some consideration of planned experimentation. Prerequisite: MATH 152 or 172.

604. Topics in Statistical Computations. (3-0). Credit 3. Efficient uses of existing statistical computer programs (SAS, R, etc.), generation of random numbers; using and creating functions and subroutines; statistical graphics; programming of simulations studies; and data management issues. Prerequisites: MATH 221, 251, or 253.

605. Advanced Statistical Computations. (3-0). Credit 3. Programming languages, statistical software, and computing environments; development of programming skills using modern methodologies; data extraction and code management; interfacing lower-level languages with data analysis software; simulation; MC integration; MC-MC procedures; permutation tests; bootstrapping. Prerequisite: STAT 612 and STAT 648.

607. Sampling. (3-0). Credit 3. Planning, execution and analysis of sampling from finite populations; simple, stratified, multistage and systematic sampling; ratio estimates. Prerequisite: STAT 601 or 652 or concurrent enrollment in STAT 641.

608. Regression Analysis. (3-0). Credit 3. Multiple, curvilinear, nonlinear, robust, logistic and principal components regression analysis; regression diagnostics, transformations, analysis of covariance. Prerequisite: STAT 601 or 641.

610. Theory of Statistics - Distribution Theory. (3-0). Credit 3. Brief introduction to probability theory; distributions and expectations of random variables, transformations of random variables, and order statistics; generating functions and basic limit concepts. Prerequisite: MATH 409 or concurrent enrollment in MATH 409.

611. Theory of Statistics - Inference. (3-0). Credit 3. Theory of estimation and hypothesis testing; point estimation, interval estimation, sufficient statistics, decision theory, most powerful tests, likelihood ratio tests, chi-square tests. Prerequisite: STAT 610 or equivalent.

612. Theory of Linear Models. (3-0). Credit 3. Matrix algebra for statisticians, Gauss-Markov theorem; estimability; estimation subject to linear restrictions; multivariate normal distribution; distribution of quadratic forms; inferences for linear models; theory of multiple regression and AOV; random- and mixed-effects models. Prerequisite: Course in linear algebra.

613. Statistical Methodology I. (3-0). Credit 3. Elements of likelihood inference; exponential family models; group transformation models; survival data; missing data; estimation and hypothesis testing; nonlinear regression models; conditional and marginal inferences; complex models-Markov chains, Markov random fields, time series, and point processes. Prerequisite: STAT 612.

614. Probability for Statistics. (3-0). Credit 3. Probability and measures; expectation and integrals, Kolmogorov's extension theorem; Fubini's theorem; inequalities; uniform integrability; conditional expectation; laws of large numbers; central limit theorems. Prerequisite: STAT 610 or its equivalent.


620. Asymptotic Statistics. (3-0). Credit 3. Review of basic concepts and important convergence theorems; elements of decision theory; delta method; Bahadur representation theorem; asymptotic distribution of MLE and the LRT statistics; asymptotic efficiency; limit theory for U-statistics and differential statistical functionals with illustration from M-, L-, R-estimation; multiple testing. Prerequisite: STAT 614.

621. Advanced Stochastic Processes. (3-0). Credit 3. Conditional expectation; stopping times; discrete Markov processes; birth-death processes; queuing models; discrete semi-Markov processes; Brownian motion; diffusion processes, Itô integrals, theorem and limit distributions; differential statistical functions and their limit distributions; M-, L-, R-estimation. Prerequisite: STAT 614 or STAT 615.

623. Statistical Methods for Chemistry. (3-0). Credit 3. Chemometrics topics of process optimization, precision and accuracy; curve fitting; chi-squared tests; multivariate calibration; errors in calibration standards; statistics of instrumentation. Prerequisites: STAT 601 or STAT 652 or STAT 641 or approval of instructor.

626. Methods in Time Series Analysis. (3-0). Credit 3. Introduction to statistical time series analysis; autocorrelation and spectral characteristics of univariate, autoregressive, moving average models; identification, estimation and forecasting. Prerequisite: STAT 601 or 642 or approval of instructor.

627. Nonparametric Function Estimation. (3-0). Credit 3. Nonparametric function estimation; kernel, local polynomials, Fourier series and spline methods; automated smoothing methods including cross-validation; large sample distributional properties of estimators; recent advances in function estimation. Prerequisites: STAT 611.

630. Overview of Mathematical Statistics. (3-0). Credit 3. Basic probability theory including distributions of random variables and expectations. Introduction to the theory of statistical inference from the likelihood point of view including maximum likelihood estimation, confidence intervals, and likelihood ratio tests. Introduction to Bayesian methods. Prerequisites: Math 221, 251, or 253.


632. Statistical Methodology II-Bayesian Modeling and Inference. (3-0). Credit 3. Decision theory; fundamentals of Bayesian inference; single and multi-parameter models, Gaussian model; linear and generalized linear models; Bayesian computation; asymptotic methods; non-iterative MC; MCMC; hierarchical models; nonlinear models; random effect models; survival analysis; spatial models. Prerequisite: STAT 613.

636. Applied Multivariate Analysis. (3-0). Credit 3. Multivariate extensions of the chi-square and t-tests, discrimination and classification procedures; applications to diagnostic problems in biological, medical, anthropological, and social research; multivariate analysis of variance, principal component and factor analysis, canonical correlations. Prerequisites: MATH 423 and STAT 653 or approval of instructor. Cross-listed with INFO 657.

638. Introduction to Applied Bayesian Methods. (3-0). Credit 3. Students will learn how uncertainty regarding parameters can be explicitly described as a posterior distribution which blends information from a sampling model and prior distribution Course will emphasize modeling and computations under the Bayesian paradigm. Topics include: prior distributions, Bayes Theorem, conjugate and non-conjugate models, posterior simulation via the Gibbs sampler and MCMC, hierarchical modeling. Prerequisite: STAT 604, 608, or 630.

641. The Methods of Statistics I. (3-0). Credit 3. An application of the various disciplines in statistics to data analysis, introduction to statistical software; demonstration of interplay between probability models and statistical inference. Prerequisites: Concurrent Enrollment in STAT 610 or approval of instructor.

642. The Methods of Statistics II (3-0). Credit 3. Design and analysis of experiments; scientific method; graphical displays; analysis of nonconventional designs and experiments involving categorical data. Prerequisites: STAT 641.

643. Biostatistics I. (3-0). Credit 3. Bio-assay for quantitative and quantal responses; statistical analysis of contingency, including effect estimates, matched samples and misclassification. Prerequisites: STAT 608, 630, and 642 or STAT 610.

644. Biostatistics II. (3-0). Credit 3. Generalized linear models; survival analysis with emphasis on nonparametric models and methods. Prerequisites: STAT 643 or approval of instructor.

645. Applied Biostatistics and Data Analysis. (3-0). Credit 3. Survey of crucial topics in biostatistics; application of regression in biostatistics; analysis of correlated data; logistic and Poisson regression for binary or count data; survival analysis for censored outcomes; design and analysis of clinical trials; sample size calculation by simulation; bootstrap techniques for assessing statistical significance; data analysis using R. Prerequisites: STAT 651, 652, and 659, or equivalent or prior approval of instructor.

646. Statistical Bioinformatics. (3-0). Credit 3. An overview of relevant biological concepts and technologies of genomic/proteomic applications; methods to handle, visualize, analyze, and interpret genomic/proteomic data; exploratory data analysis for genomic/proteomic data; data preprocessing and normalization; hypotheses testing; classification and prediction techniques for using genomic/proteomic data to predict disease status. Prerequisites: STAT 604, 651, 652 or equivalent or prior approval of instructor.

647. Spatial Statistics. (3-0). Credit 3. Spatial correlation and its effects; spatial prediction (kriging); spatial regression; analysis of point patterns (tests for randomness and modelling patterns); sub sampling methods for spatial data. Prerequisite: STAT 601 or STAT 611 or equivalent.

648. Applied Statistics and Data Analysis. (3-0). Credit 3. Background to conduct research in the development of new methodology in applied statistics. Topics covered will include: exploratory data analysis; sampling; testing; smoothing; classification; time series; and spatial data analysis. Prerequisite: Approval of instructor.
651. **Statistics in Research I. (3-0). Credit 3.** For graduate students in other disciplines; non-calculus exposition of the concepts, methods and usage of statistical data analysis; T-tests, analysis of variance, and linear regression. Prerequisite: MATH 102 or equivalent.

652. **Statistics in Research II. (3-0). Credit 3.** Continuation of STAT 651. Concepts of experimental design, individual treatment comparisons, randomized blocks and factorial experiments, multiple regression, chi-square tests and a brief introduction to covariance, non-parametric methods, and sample surveys. Prerequisite: STAT 651.

653. **Statistics in Research III. (3-0). Credit 3.** Advanced topics in ANOVA; analysis of covariance; and regression analysis including analysis of messy data; non-linear regression; logistic and weighted regression, diagnostics and model building; emphasis on concepts, computing and interpretation. Prerequisite: STAT 652.

656. **Applied Analytics Using SAS Enterprise Miner. (3-0) Credit 3.** Introduction to data mining and will demonstrate the procedures; Optimal prediction decisions; comparing and deploying predictive models; neural networks; constructing and adjusting tree models; the construction and evaluation of multi-stage models. Prerequisite: STAT 657.


658. **Transportation Statistics. (3-0). Credit 3.** Design of experiments, estimation, hypotheses testing, modeling, and data mining for transportation specialists. Prerequisites: STAT 211 or STAT 651.

659. **Applied Categorical Data Analysis. (3-0). Credit 3.** Introduction to analysis and interpretation of categorical data using ANOVA/regression analogs; includes contingency tables, loglinear models, logistic regression; use of computer software such as SAS, GLIM, SPSSX. Prerequisite: STAT 601 or 641 or 652 or equivalent.

661. **Statistical Genetics. (3-0), Credit 3.** Basic concepts in human genetics, sampling designs, gene frequency estimation, Hardy-Weinberg equilibrium, linkage disequilibrium, association and transmission disequilibrium test studies, linkage and pedigree analysis, segregation analysis, polygenic models, DNA sequence analysis. Prerequisites: STAT 610 and 611.

662. **Advanced Statistical Genetics. (3-0). Credit 3.** This course is a continuation of the course, STAT 661 Statistical Genetics. A strong background in statistics, genetics, and mathematics is required. Topics include counting methods, EM algorithm, Newton's method, scoring in genetics, genetic identity coefficients, descent graph, molecular phylogeny, models of recombination, sequence analysis, diffusion processes and linkage disequilibrium mappings. Prerequisite: STAT 610, 611, and 661.

665. **Statistical Application of Wavelets. (3-0). Credit 3.** This is a course on the use of wavelets methods in statistics. The course introduces wavelet theory, provides an overview of wavelet-based statistical methods. Topics include smoothing of noisy signals, estimation function data and representation of stochastic processes. Some emphasis is given to Bayesian procedures. Prerequisite: STAT 611 or approval by the instructor.

673. **Time Series Analysis I. (3-0). Credit 3.** An introduction to diverse modes of analysis now available to solve for univariate time series; basic problems of parameter estimation, spectral analysis, forecasting and model identification. Prerequisite: STAT 611 or equivalent.

674. **Time Series Analysis II. (3-0). Credit 3.** Continuation of STAT 673. Multiple time series, ARMA models, test of hypotheses, estimation of spectral density matrix, transfer function and forecasting. Prerequisites: STAT 673.
681. Seminar. Credit 1. Oral presentations of special topics and current research in statistics. May be repeated for credit. Prerequisite: Graduate classification in statistics.

684. Professional Internship. Credit 1 to 3. Practicum in statistical consulting for students in Ph.D. program. Students will be assigned consulting problems brought to the Department of Statistics by researchers in other disciplines. Prerequisite: STAT 642 or equivalent.

685. Directed Studies. Credit 1 to 6. Individual instruction in selected fields in statistics; investigation of special topics not within scope of thesis research and not covered by other formal courses. Prerequisites: Graduate classification and approval of department head.

689. Special Topics in Statistics. Credit 1 to 4. Selected topics in an identified area of statistics. Open to non-majors. May be repeated for credit. Prerequisite: Approval of instructor.

691. Research. Credit 1 or more. Research for thesis or dissertation. Prerequisite: Graduate classification.
Scheduling Coursework

The following list indicates the Department’s usual schedule of course offerings. Those courses marked even or odd are offered only in even numbered and odd numbered years, respectively. Because several courses are offered only every other year, it is important to plan a program of study and schedule of courses as early as possible.

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1: Fall, 2: Spring, 3: Summer, 4: As resources allow.
Graduate Program Admissions Criteria

Admissions criteria for the Graduate Program in the Department of Statistics are based on the following requirements:

- GRE Scores
- Transcripts
- Resume
- 3 Letters of Recommendation
- Knowledge of Matrix Algebra, along with courses in Calculus I and II, as well as computer programming

Applicants with a strong background in mathematics, statistics, and computer programming are preferred.
GRE Scores for First Time Graduate Students

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## Graduate Students Applied, Admitted and Enrolled 2007-2009

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(Cumulative GPR as of the beginning of semester)

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## Institutional Support for Full Time Students

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### Fiscal Year 2012

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### Fiscal Year 2010

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### Fiscal Year 2014

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<tr>
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<tr>
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<tr>
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<tr>
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<tr>
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**2013**

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<tr>
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**2014**

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The Statistics Graduate Student Association

The Statistics Graduate Student Association represents all graduate students in the Department of Statistics at Texas A&M University. It is led by the elected officers, Mary Frances Dorn (President), Alex Asher (Vice President and President-elect), Amir Nikooienejad (Treasurer), Shelby Cummings (Secretary), and Quan Cai (Web Designer). Our mission is to provide the best possible environment to encourage the interaction between students and faculty by providing forums for students to connect with faculty as they discuss their current research, encouraging participation in academic events outside of the traditional classroom setting, and by giving back to the community that supports all of us in the A&M family.

The SGSA organizes a number of academic and professional events throughout the year. One of the most important functions of the SGSA is to foster connections between the students and faculty. We do this mainly through informal talks given by faculty about their research interests. On a biennial basis, we also invite a renowned statistician from outside of our department to give a talk and to meet with our students. We are currently preparing for an annual workshop on high-performance computing led by our department’s Director of Information Technology. Additionally, we organize visits by recruiters from a variety of industries. This year, we have already hosted five recruitment presentations from companies including Shell, Rackspace, and Capital One, and are preparing for another event next month. Finally, we provide the opportunity for students to give talks in front of their fellow students. This year, we have scheduled a couple of graduating students to give their practice defense.

The SGSA also serves to bring the students together as a community outside of the workplace. Some of the social activities this year include an Ultimate Pi Day celebration, a combination game night and Lunar New Year celebration, pumpkin carving, and bowling. We still have two important events scheduled this semester. One is our popular Faculty Appreciation Barbecue that brings together students, post docs, faculty, and their families. Another is our participation as an organization in the Big Event, the campus-wide service project to say “thank you” to the Bryan/College Station community.

These events, both academic and social, help to bring together the students, whether they are first-years or finishing their dissertations, both domestic and international. Our continuing goal for the SGSA is to promote and to strengthen these connections so that all students feel that they are part of the Department of Statistics family.
STUDENT PUBLICATIONS 2009-2013

2009
2010
2011
2012
2013
Professional Development Opportunities for Students

The Department of Statistics and Texas A&M University offer a wide range of Professional Development opportunities to graduate students seeking careers both in and outside of academia. The Statistics Department provides faculty career advising and mentoring. Students within the department can obtain financial assistance for opportunities to travel and present at conferences. The Statistics Graduate Student Association (SGSA) hosts several industry recruitment events each semester to explore professional internships and job opportunities outside of TAMU. SGSA also holds student panels for those in the program to ask questions about research, advisors, job hunting and how to succeed in the program. In addition, SGSA hosts workshops, presentations and lunch seminars with current faculty.

There are currently 8 campus units outside of the Department of Statistics that provide professional development opportunities for our students: the Career Center, Center for Teaching Excellence, Graduate Student Council, International Student Services, Office of Graduate and Professional Studies, Student Counseling Center, University Libraries, and the University Writing Center.

TAMU’s Center for Teaching Excellence (CTE) provides opportunities for current students to enhance their knowledge and experience as a Teaching Assistant with TA certification, TA mentor training, STEM teaching professional development courses, teaching seminar series, consulting and more. The CTE also houses the Academy for Future Faculty which supports graduate students and post-docs in preparation for a career in higher education. Students can earn an Academy for Future Faculty certificate and can access tools for portfolios and syllabus builders, attend free seminars and workshops on a range of subjects for teaching in higher education.

The Career Center provides a wide range of services including resume help, career advising, workshops, internships, mock interviews and career fairs. The Office of Graduate and Professional Studies promotes professional development in four areas: academic development, leadership and communication, instructions and assessment, and career development. They provide a search engine for students to identify professional development opportunities across campus. They have also implemented a 3 Minute Thesis Competition (developed at the University of Queensland) in which students have three minutes to present a compelling oration on their thesis. The Office of Graduate and Professional Studies, along with the University Writing Center, also offers thesis/dissertation workshops and seminars. Along with other resources, the Office of Graduate and Professional Studies and the Career Center also offer access to the Versatile PhD. This resource is the largest online community for non-academic and non-faculty careers. MS and PhD students can see real resumes and CV’s, read real success stories and career panels, consult forums and search for job listings outside academia.
AVERAGE YEAR TO DEGREE, BY DEGREE PROGRAM (STATISTICS)

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# STAT Masters Graduation and Retention Report

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# Master’s Degrees Awarded 2009-2014

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<td>Zhan, Dongling</td>
<td>The k-Sample Problem When k is Large and n Small (May)</td>
<td>Hart, J. D.</td>
</tr>
<tr>
<td>Zhang, Lin</td>
<td>Application of Bayesian Hierarchical Models in Genetic Data Analysis (December)</td>
<td>Mallick/Baladandayuthapani</td>
</tr>
<tr>
<td>Author(s)</td>
<td>Title</td>
<td>Advisor(s)</td>
</tr>
<tr>
<td>----------</td>
<td>-----------------------------------------------------------------------</td>
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<tr>
<td>Ball, Robyn L.</td>
<td>Statistical Methods for High Dimensional Biomedical Data (May)</td>
<td>Dabney, A.</td>
</tr>
<tr>
<td>Chen, Hsiang-Chun</td>
<td>Interference for Clustered Mixed Outcomes from a Multivariate Generalized Linear Mixed Model (August)</td>
<td>Wehrly, T.</td>
</tr>
<tr>
<td>Cheng, Yichen</td>
<td>Stochastic Approximation and Its Application in MCMC (August)</td>
<td>Liang, F.</td>
</tr>
<tr>
<td>Gaucher, Beverly J.</td>
<td>Factor Analysis for Skewed Data and Skew-Normal Maximum Likelihood Factor Analysis (May)</td>
<td>Hart/Wehrly</td>
</tr>
<tr>
<td>Mukhopadhyay, Subhadeep</td>
<td>Nonparametric Inference for High Dimensional Data (May)</td>
<td>Lahiri/Parzen</td>
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<tr>
<td>Wang, Yiyi</td>
<td>Statistical Models for Next Generation Sequencing Data (May)</td>
<td>Dahl/Liang</td>
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<tr>
<td>Xu, Kun</td>
<td>Semiparametric Estimation and Inference with Mis-Measured, Correlated or Mixed Observations, and the Application in Ecology, Medicine, and Neurology (December)</td>
<td>Ma, Y.</td>
</tr>
<tr>
<td>Zhu, Xinxin</td>
<td>Wind Speed Forecasting for Power System Operation (August)</td>
<td>Sang/Genton</td>
</tr>
<tr>
<td>De, Debkumar</td>
<td>Essays on Bayesian Time Series and Variable Selection (May)</td>
<td>Liang/Mallick</td>
</tr>
<tr>
<td>Feng, Shuo</td>
<td>A Likelihood Based Framework for Data Integration with Application to eQTL Mapping (August)</td>
<td>Huang, J.</td>
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<tr>
<td>Gregory, Karl Bruce</td>
<td>Two-Sample Testing in High Dimension and a Smooth Block Bootstrap for Time Series (August)</td>
<td>Carroll/Lahiri</td>
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<tr>
<td>Kim, Jinsu</td>
<td>A Bootstrap Metropolis-Hastings Algorithm for Bayesian Analysis of Big Data (December)</td>
<td>Liang, F.</td>
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<tr>
<td>Lin, Fang-Yu</td>
<td>Combining Strategies for Parallel Stochastic Approximation Monte Carlo Algorithm of Big Data (December)</td>
<td>Liang/Carroll</td>
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<tr>
<td>Lu, Ming</td>
<td>Investigation of Simple Linear Measurement Error Models (SLMEEMS) with Correlated Data (December)</td>
<td>Dahm, P.F.</td>
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<tr>
<td>Miao, Jiangang</td>
<td>New Advances in Logistic Regression for Handling Missing and Mismeasured Data with Applications in Biostatistics (August)</td>
<td>Wang/Sinha</td>
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<tr>
<td>Qu, Yuan</td>
<td>Estimation of Large Spectral Function and Its Application (August)</td>
<td>Huang, J.</td>
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<tr>
<td>Roh, Soojin</td>
<td>Robust Ensemble Kalman Filters and Localization for Multiple State Variables (August)</td>
<td>Jun/Genton</td>
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<tr>
<td>Sarkar, Abhra</td>
<td>Bayesian Semiparametric Density Deconvolution and Regression in the Presence of Measurement Errors (August)</td>
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<td>Song, Qifan</td>
<td>Variable Selection for Ultra-High Dimensional Data (August)</td>
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<tr>
<td>Sun, Rayne</td>
<td>Thresholding Multivariate Regression and Generalized Principal Components (May)</td>
<td>Pourahmadi/Carroll</td>
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<tr>
<td>Wang, Yanqing</td>
<td>Relative Risks Analysis in Nutritional Epidemiology (August)</td>
<td>Carroll/Mallick</td>
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<tr>
<td>Wei, Rubin</td>
<td>Highly Nonlinear Measurement Error Models in Nutritional Epidemiology (May)</td>
<td>Carroll, R.</td>
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## Ph.D. Graduate Employers 2009-2014

<table>
<thead>
<tr>
<th>Student</th>
<th>Job Title</th>
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<tr>
<td>Gosh, Souparno</td>
<td>Assistant Professor</td>
<td>Texas Tech University</td>
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<tr>
<td>Herring, Amanda Scott</td>
<td>Assistant Professor</td>
<td>Colorado School of Mines</td>
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<tr>
<td>Lee, Seokho</td>
<td>Lecturer</td>
<td>Korea University of Foreign Studies</td>
</tr>
<tr>
<td>Litton Nathaniel</td>
<td>Manager of Statistical Analysis</td>
<td>Capital One Auto Finance</td>
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<tr>
<td>Savchuk, Olga</td>
<td>Visiting Instructor</td>
<td>University of South Florida</td>
</tr>
<tr>
<td>Wagaman, John</td>
<td>Assistant Professor</td>
<td>Western Carolina University</td>
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<tr>
<td>Bandyopadhyay, Soutir</td>
<td>Assistant Professor</td>
<td>Lehigh University</td>
</tr>
<tr>
<td>Dhavala, Soma Sekhar</td>
<td>Associate Research Scientist</td>
<td>Dow AgroSciences LLC, Global Research Center</td>
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<tr>
<td>Hartman, Brian</td>
<td>Assistant Professor</td>
<td>University of Connecticut</td>
</tr>
<tr>
<td>Joshi, Ardasr</td>
<td>Manager, Biostatistics (Oncology Biomarkers)</td>
<td>Gilead Sciences</td>
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<tr>
<td>Kolodziej, Elizabeth Y.</td>
<td>Senior Lecturer</td>
<td>Texas A&amp;M University, Statistics</td>
</tr>
<tr>
<td>Lennox, Kristin</td>
<td>Statistician</td>
<td>Lawrence Livermore National Laboratory</td>
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<tr>
<td>Lindsey, Charles D.</td>
<td>Senior Statistician, Software Developer</td>
<td>StataCorp</td>
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<tr>
<td>Marchenko, Yulia</td>
<td>Associate Director of Biostatistics</td>
<td>StataCorp</td>
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<tr>
<td>Redd, Andrew M.</td>
<td>Assistant Professor</td>
<td>University of Utah</td>
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<tr>
<td>Rister, Krista Dianne</td>
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<td>Capital One</td>
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<tr>
<td>Sun, Xiuizhen (Jenny)</td>
<td>Research Assistant Professor</td>
<td>Boston Medical Center</td>
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<tr>
<td>Wei, Jiawei</td>
<td>Statistical Methodologist</td>
<td>Novartis</td>
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<tr>
<td>Wu, Mingqi</td>
<td>Statistician</td>
<td>Shell Global Solutions</td>
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<td>Zhang, Saijuan</td>
<td>Biometrician</td>
<td>Merck</td>
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<td>Zhong, Ming</td>
<td>Principal Statistician</td>
<td>Capital One</td>
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<tr>
<td>Barney, Bradley</td>
<td>Assistant Professor</td>
<td>Kennesaw State University</td>
</tr>
<tr>
<td>Chen, Lianfu</td>
<td>Quantitative Statistics Analyst</td>
<td>Sakonnet Technology</td>
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<tr>
<td>Chen, Nai-Wei</td>
<td>Biostatistics Statistical Consultant</td>
<td>University of Texas Medical Branch at Galveston</td>
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<tr>
<td>Garcia, Tanya</td>
<td>Assistant Professor</td>
<td>Texas A&amp;M University, Biostatistics</td>
</tr>
<tr>
<td>Glab, Daniel L.</td>
<td>Postdoctoral Trainee</td>
<td>Mexican American &amp; US Latino Rsch. Ctr, Texas A&amp;M</td>
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69
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Jin, Ick Hoon</td>
<td>Research Scientist</td>
<td>Ohio State University, Center for Biostatistics</td>
</tr>
<tr>
<td>Konomi, Bledar (Alex)</td>
<td>Assistant Professor</td>
<td>University of Cincinnati</td>
</tr>
<tr>
<td>Maadodia, Mehdi</td>
<td>Assistant Professor</td>
<td>Marquette University</td>
</tr>
<tr>
<td>Mondal, Anirban</td>
<td>Assistant Professor</td>
<td>Case Western Reserve University</td>
</tr>
<tr>
<td>Pan, Huijun</td>
<td>Sr. Consultant, Claim Analytics</td>
<td>Travelers Insurance</td>
</tr>
<tr>
<td>Singh, Trijya</td>
<td>Assistant Professor</td>
<td>Le Moyne College</td>
</tr>
<tr>
<td>Sun, Ying</td>
<td>Assistant Professor</td>
<td>King Abdullah University of Science &amp; Technology</td>
</tr>
<tr>
<td>Talluri, Rajesh</td>
<td>Postdoctoral Fellow, Biostatistics</td>
<td>UT- MD Anderson Cancer Center</td>
</tr>
<tr>
<td>Wang, Qi</td>
<td>Group Model Variation</td>
<td>Standard Chartered Bank</td>
</tr>
<tr>
<td>Xu, Ganggang</td>
<td>Assistant Professor</td>
<td>Binghamton University, State University of New York</td>
</tr>
<tr>
<td>Crawford, Scott</td>
<td>Academic Professional Lecturer</td>
<td>University of Wyoming</td>
</tr>
<tr>
<td>Jann, Dominic A.</td>
<td>Senior Associate Analytic Engineer</td>
<td>SAS Institute</td>
</tr>
<tr>
<td>Kim, Mi Jeong</td>
<td>Senior Engineer</td>
<td>Samsung Electronics</td>
</tr>
<tr>
<td>Kohli, Priya</td>
<td>Assistant Professor of Mathematics</td>
<td>Connecticut College</td>
</tr>
<tr>
<td>Lee, Jun B.</td>
<td>Quantitative Analyst</td>
<td>CLS Group</td>
</tr>
<tr>
<td>Park, Jincheol</td>
<td>Postdoctoral Fellow</td>
<td>Ohio State University, Stat &amp; Math Bioscience Inst.</td>
</tr>
<tr>
<td>Wang, Xuan</td>
<td>Research Statistical Analyst</td>
<td>UT-MD Anderson Cancer Center</td>
</tr>
<tr>
<td>Xun, Xiaolei</td>
<td>Senior Biometrician</td>
<td>Novartis</td>
</tr>
<tr>
<td>Zhan, Dongling</td>
<td>Assistant Director</td>
<td>Data &amp; Research Services, Texas A&amp;M University</td>
</tr>
<tr>
<td>Zhang, Lin</td>
<td>Assistant Professor</td>
<td>University of Minnesota</td>
</tr>
<tr>
<td>Ball, Robyn L.</td>
<td>Postdoctoral Associate</td>
<td>The Jackson Laboratory</td>
</tr>
<tr>
<td>Chen, Hsiang-Chun</td>
<td>Research Statistical Analyst</td>
<td>MD Anderson Cancer Center</td>
</tr>
<tr>
<td>Cheng, Yichen</td>
<td>Postdoctoral Researcher</td>
<td>Fred Hutchinson Cancer Research Center</td>
</tr>
<tr>
<td>Gaucher, Beverly J.</td>
<td>Mathematical Statistician</td>
<td>USDA, National Agricultural Statistics Service</td>
</tr>
<tr>
<td>Mukhopadhay, Subhadeep</td>
<td>Assistant Professor</td>
<td>Temple University</td>
</tr>
<tr>
<td>Wang, Yiyi</td>
<td>Director, Home Office Claims</td>
<td>Liberty Mutual Insurance</td>
</tr>
<tr>
<td>Xu, Kun</td>
<td>Postdoctoral Associate</td>
<td>University of Miami</td>
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<tr>
<td>Zhu, Xinxin</td>
<td>Statistical Modeler</td>
<td>LexisNexis Group</td>
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2012

2013
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<tr>
<th>Name</th>
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<tr>
<td>Chown, Justin Andrew</td>
<td>Postdoctoral Researcher</td>
<td>Université catholique de Louvain</td>
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<tr>
<td>De, Debkumar</td>
<td>Research Intern</td>
<td>Echelon Capital Strategies, LLC</td>
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<tr>
<td>Feng, Shuo</td>
<td>Statistician/Scientist II</td>
<td>Ceva Biomune</td>
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<tr>
<td>Gregory, Karl Bruce</td>
<td>Postdoctoral Researcher</td>
<td>University of Mannheim</td>
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<td>Kim, Jinsu</td>
<td>Enterprise Solution Specialist</td>
<td>LG CNS Co., Ltd.</td>
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<tr>
<td>Lin, Fang-Yu</td>
<td>AVP, Risk Modeler</td>
<td>JP Morgan Chase</td>
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<td>Lu, Ming</td>
<td>Searching for industry position</td>
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<tr>
<td>Miao, Jiangang</td>
<td>Senior Data Analyst</td>
<td>American International Group, Inc.</td>
</tr>
<tr>
<td>Qu, Yuan</td>
<td>Visiting Assistant Professor</td>
<td>Purdue University</td>
</tr>
<tr>
<td>Roh, Soojin</td>
<td>Searching for industry position</td>
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<tr>
<td>Sarkar, Abhra</td>
<td>Postdoctoral Associate</td>
<td>Duke University</td>
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<td>Song, Qifan</td>
<td>Assistant Professor</td>
<td>Purdue University</td>
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<tr>
<td>Sun, Rayne</td>
<td>AVP, Corp. Investment Quan. Finance Analyst</td>
<td>Bank of America</td>
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<td>Wang, Yanqing</td>
<td>Postdoctoral Researcher</td>
<td>Fred Hutchinson Cancer Center</td>
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<tr>
<td>Wei, Rubin</td>
<td>Senior Statistician</td>
<td>Eli Lilly &amp; Company</td>
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III.
FACULTY INFORMATION
Department of Statistics Faculty, 2014-2015

V. E. Johnson, Professor and Head; Ph.D. in Statistics: University of Chicago, 1989; longitudinal data, nonparametric statistics, applied statistics, biostatistics, categorical data, Bayesian methods.

M. T. Longnecker, Professor and Associate Head; Ph.D. in Statistics: Florida State University, 1976; statistical education and consulting.

D. Akleman, Senior Lecturer; Ph.D. in Agricultural Economics: Texas A&M University, 1996; time series, stochastic processes, risk analysis, artificial intelligence, econometrics.

A. Bhattacharya, Assistant Professor; Ph.D. in Statistics: Duke University, 2012; Factor models, Gaussian process, high-dimensional data, large contingency tables.


R. J. Carroll, Distinguished Professor; Ph.D. in Statistics: Purdue University, 1974; longitudinal data, measurement error, nutritional epidemiology, bioinformatics.

W. Chen, Professor; Ph.D. in Statistics: New York University, 2001; long memory time series, econometrics.

D. B. H. Cline, Professor; Ph.D. in Statistics: Colorado State University, 1983; Stochastic networks, nonlinear time series, ergodicity, Markov chains, distribution tails, regular variation.

A. Dabney, Associate Professor; Ph.D. in Biostatistics: University of Washington, 2006; microarrays, bioinformatics, classification methods.

P. F. Dahm, Professor and Graduate Advisor; Ph.D. in Statistics: Iowa State University, 1979; measurement error models, biostatistics, econometrics.


J. D. Hart, Professor; Ph.D. in Statistics: Southern Methodist University, 1981; nonparametric function estimation, time series, bootstrap methods.

K. Hatfield, Lecturer; MBA in Operations Research: North Texas State University, 1980; Statistics education and consulting.

R. R. Hocking, Professor Emeritus; Ph.D. in Statistics: Iowa State University, 1962; regression, mixed models and multivariate analysis.

J. Huang, Professor; Ph.D. in Statistics: University of California, Berkeley, 1997; nonparametric and semiparametric methods, statistical function estimation using polynomial splines, statistical methods for longitudinal data/panel data, multivariate/functional data analysis, survival analysis, duration data, event history analysis, statistics application in business.
O. C. Jenkins, Professor Emeritus; Ph.D. in Statistics: Texas A&M University, 1972; statistical sampling and experimental design.


M. Jun, Associate Professor, Ph.D. in Statistics: University of Chicago, 2005; statistical methodologies, environmental problems, space-time covariance modeling, numerical model evaluation in air quality problems, combining numerical model output with observed data.

M. Katzfuss, Assistant Professor, Ph.D. in Statistics: Ohio State University, 2011; Spatial and spatio-temporal statistics, Bayesian inference, massive datasets, probabilistic forecasting, applications to environmental data.

E. Y. Kolodziej, Senior Lecturer, Ph.D. in Statistics: Texas A&M University, 2010; spatial statistics, statistics education, consulting.

H. C. Liang, Senior Lecturer, Ph.D. in Statistics: University of New Mexico, 2003; Linear models, statistical education, undergraduate research.


B. Mallick, Distinguished Professor; Ph.D. in Statistics: University of Connecticut, 1994; Bayesian hierarchical modeling, nonparametric regression and classification, bioinformatics, spatio-temporal modeling, machine learning, functional data analysis, Bayesian nonparametrics, petroleum reservoir characterization, uncertainty analysis of computer model outputs.


U. Müller-Harknett, Professor; Ph.D. in Mathematics: University of Bremen, 1997; non- and semi-parametrics, efficient estimation.

H. J. Newton, Professor and Dean; Ph.D. in Statistics: State University of New York at Buffalo, 1975; time series analysis, computational statistics.

E. Parzen, Distinguished Professor Emeritus; Ph.D. in Mathematics: University of California (Berkeley), 1953; statistical science-developing statistical methods for time series analysis, data analysis, and change analysis.

M. Pourahmadi, Professor, Ph.D. in Statistics: Michigan State University, 1980, time series analysis and prediction theory, multivariate analysis, longitudinal data analysis, mixed-effects models, data mining, stochastic volatility models.

L. J. Ringer, Professor Emeritus; Ph.D. in Statistics: Texas A&M University, 1966; applied statistics, survey sampling and reliability.

H. Sang, Associate Professor, Ph.D. in Statistics: Duke University, 2008; Bayesian statistics with focus on spatial and spatio-temporal statistics.
H. Schmiediche, Director of Information Technology; Ph.D. in Statistics: Texas A&M University, 1993; computational statistics.

S. J. Sheather, Professor and Academic Director of MS Analytics & Online Programs; Ph.D. in Statistics: LaTrobe University, 1986; development of regression diagnostics and robust and flexible regression methods, statistical models of wine quality.

M. Sherman, Professor; Ph.D. in Statistics: University of North Carolina at Chapel Hill, 1992; biostatistics, spatial statistics.

S. Sinha, Associate Professor, Ph.D. in Statistics: University of Florida, 2004; methodological research: missing data technique, measurement error, splines, Bayesian methods: parametric and nonparametric methods, application: epidemiology, genetic epidemiology.

W. B. Smith, Professor Emeritus; Ph.D. in Statistics: Texas A&M University, 1967; multivariate analysis, missing data methods, correspondence analysis.

F. M. Speed, Professor Emeritus; Ph.D. in Statistics: Texas A&M University, 1969; computational statistics, biostatistics, linear models, applied statistics, multivariate methods, environmental and industrial statistics, teaching statistics real time.

C. H. Spiegelman, Distinguished Professor; Ph.D. in Statistics & Applied Mathematics: Northwestern University, 1976; calibration curves, measurement error models, applied statistics, especially to chemistry.

S. Subba Rao, Associate Professor; Ph.D. in Statistics: University of Bristol, UK, 2001; time series, nonstationary processes, nonlinear processes, recursive online algorithms, spatio-temporal models.

E. Toby, Professor Emerita; Ph.D. in Mathematics: University of California, San Diego, 1988; biostatistics, diffusions processes.

S. Wang, Professor; Ph.D. in Statistics: University of Texas at Austin, 1988; biostatistical inferences, missing and mis-measured data modeling and analysis, non- and semi-parametric methodology, resampling methods, small sample asymptotics, survey sampling.

T. E. Wehrly, Professor; Ph.D. in Statistics: University of Wisconsin, 1976; stochastic models, directional data, mathematical statistics, nonparametric function estimation.

L. Zhou, Associate Professor, Ph.D. in Statistics: University of California, 1997; statistical Methodology and application in bioinformatics, nutrition and epidemiology, functional/longitudinal data analysis.

J. Zinn, Professor of Mathematics and Statistics; Ph.D. in Mathematics: University of Wisconsin, 1972; empirical processes, bootstrapping.
Average FTE for Faculty Rank

<table>
<thead>
<tr>
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<th>2010</th>
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<td>Professor</td>
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<td>0.9737</td>
<td>0.9420</td>
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<tr>
<td>Assistant Prof</td>
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<td>0.8700</td>
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<tr>
<td>Associate Prof</td>
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<tr>
<td>Other Faculty</td>
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<td>0.8571</td>
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<tr>
<td>Teaching Assis</td>
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<td>0.4905</td>
<td>0.5000</td>
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Legend:
- Professor (Red)
- Assistant Professor (Blue)
- Associate Professor (Green)
- Teaching Assistant (Light Blue)
- Other Faculty (Pink)
<table>
<thead>
<tr>
<th>Faculty Rank by Ethnicity</th>
<th>Professor</th>
<th>Assistant Professor</th>
<th>Associate Professor</th>
<th>Other Faculty</th>
<th>Teaching Assistant</th>
<th>Faculty Total</th>
</tr>
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<tbody>
<tr>
<td>Asian or Pacific Islander</td>
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<tr>
<td>Hispanic</td>
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<tr>
<td>International</td>
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<td>White Non-Hispanic</td>
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<td>Grand Total</td>
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### Headcount by Faculty Rank

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<thead>
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<th>Faculty Rank</th>
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<th>2011</th>
<th>2012</th>
<th>2013</th>
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<td>Professor</td>
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<td>20</td>
<td>20</td>
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<tr>
<td>Assistant Professor</td>
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<td>4</td>
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<tr>
<td>Associate Professor</td>
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<tr>
<td>Other Faculty</td>
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**Note:** The diagram and table above illustrate the headcount by faculty rank for the years 2009 to 2013. The values indicate the number of faculty members in each rank category for each year.
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<tr>
<th>Faculty Level</th>
<th>Asian or Pacific Islander</th>
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<th>White Non-Hispanic</th>
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<td>Other Faculty</td>
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## Honors & Awards Received by Faculty

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<th>YEAR</th>
<th>NAME</th>
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<tr>
<td>2009</td>
<td>A. Dabney</td>
<td>Montague Scholar, Center for Teaching Excellence</td>
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<td></td>
<td>M. Longnecker</td>
<td>Elected Fellow, American Statistical Association</td>
</tr>
<tr>
<td>2010</td>
<td>R. Carroll</td>
<td>Oderoff Lecture, University of Rochester</td>
</tr>
<tr>
<td></td>
<td>E. Toby</td>
<td>Distinguished Achievement Award – Teaching, Association of Former Students</td>
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<tr>
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<td>A. Dabney</td>
<td>Distinguished Achievement Award – Teaching, The Association of Former Students</td>
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<td></td>
<td>M. Longnecker</td>
<td>Statistics Education Award, Mu Sigma Rho</td>
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<tr>
<td></td>
<td>M. Speed</td>
<td>12th Man Award</td>
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<tr>
<td>2012</td>
<td>R. Carroll</td>
<td>Honorary Doctorate, Institut de Statistique, Universite Catholique de Louvain</td>
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<tr>
<td></td>
<td>S. Sheather</td>
<td>Namesake, Fish Camp</td>
</tr>
<tr>
<td></td>
<td>T. Wehrly</td>
<td>12th Man Award</td>
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<tr>
<td>2013</td>
<td>R. Carroll</td>
<td>Fellow, American Association of the Advancement of Science</td>
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<tr>
<td></td>
<td>J. Huang</td>
<td>Fellow, Institute of Mathematical Statistics</td>
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<td></td>
<td></td>
<td>Fellow, American Statistical Association</td>
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<tr>
<td></td>
<td>B. Mallick</td>
<td>Fellow, American Association for the Advancement of Science</td>
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<tr>
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<td>H. Newton</td>
<td>Fellow, American Association for the Advancement of Science</td>
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<td>S. Sheather</td>
<td>Distinguished Achievement Award – Teaching, The Association of Former Students</td>
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<td>12th Man Award</td>
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<tr>
<td></td>
<td>S. Wang</td>
<td>Visiting Fellowship Award, Australian National University</td>
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<td>Mathematical Sciences Research</td>
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<td>12th Man Award</td>
</tr>
<tr>
<td>2014</td>
<td>J. Calvin</td>
<td>Professor Emeritus of Statistics</td>
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<tr>
<td></td>
<td>R. Carroll</td>
<td>Inaugural Holder of the Jill and Stuart A. Harlin ’83 Chair in Statistics</td>
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<tr>
<td></td>
<td></td>
<td>Gottfried E. Noether Senior Scholar Award</td>
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<td>F. Dahm</td>
<td>12th Man Award</td>
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<tr>
<td></td>
<td>C. Spiegelman</td>
<td>Member of the Houston Forensic Science Local Government Corporation</td>
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<tr>
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<td>Fellow to American Association for the Advancement of Science</td>
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<tr>
<td></td>
<td>E. Toby</td>
<td>Professor Emerita of Statistics</td>
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### Department of Statistics
#### 2014-2015 Committee Assignments

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<tr>
<th>COMMITTEE</th>
<th>CHAIR</th>
<th>MEMBERS</th>
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<td>Department Head</td>
<td>Johnson</td>
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<td>Associate Head</td>
<td>Longnecker</td>
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<tr>
<td>Admissions Committee</td>
<td>Huang</td>
<td>Mallick, Jun, Wehrly</td>
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<td>Advisory Committee</td>
<td>Longnecker</td>
<td>Akleman, Hart, Huang, Katzfuss, Johnson, Jun, Sheather, Mueller-Harknett</td>
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<td>Assistantship Duties</td>
<td>Longnecker</td>
<td>J.H. Carroll</td>
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<td>Awards</td>
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<td>Mallick, Spiegelman</td>
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<tr>
<td>Bioinformatics</td>
<td>Mallick</td>
<td>Dabney, Sinha, Zhou</td>
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<td>Colloquia-Special Events</td>
<td>Bhattacharya</td>
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<td>Computing</td>
<td>Schmiediche</td>
<td>Sinha</td>
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<td>Consulting Center</td>
<td>Jones</td>
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<td>Diversity</td>
<td>Akleman</td>
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<td>Endowed Positions Committee</td>
<td>Sheather</td>
<td>Spiegelman, Johnson, Mallick</td>
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<td>Examinations (Masters)</td>
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<td>Faculty Recruiting</td>
<td>Hart</td>
<td>Johnson, Katzfuss, Mueller-Harknett, Jun, Sang</td>
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<td>Graduate Curriculum Committee</td>
<td>Huang</td>
<td>Longnecker, Cline, Subba Rao, Mueller-Harknett, Bhattacharya</td>
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<td>Graduate Service</td>
<td>Pourahmadi</td>
<td>Zhou, Wehrly</td>
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<td>Graduate Admissions Committee</td>
<td>Huang</td>
<td>Mallick, Jun, Wehrly</td>
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<td>Mallick, Cline, Dahm, Longnecker, Sinha, Jun, Wang</td>
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<td>Grant Opportunities</td>
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<td>Subba Rao</td>
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<td>NISS</td>
<td>Spiegelman</td>
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<td>Promotion &amp; Tenure Committee</td>
<td>Chen</td>
<td>Pourahmadi, Wang, R. Carroll, Mueller-Harknett, Jun, Sherman</td>
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<tr>
<td>Public Relations/Magazine</td>
<td>Johnson</td>
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<td>SECC Representative</td>
<td>Johnson</td>
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<td>SRCOS Representative</td>
<td>Johnson</td>
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<td>Sherman</td>
<td>Mueller-Harknett, Chen, Sinha, Subba Rao, Jun, Bhattacharya, Wang</td>
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<td>Teaching Assignments</td>
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<td>Tenure &amp; Promotion</td>
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<td>R. Carroll, Jun, Mueller-Harknett, Sherman, Wang, Pourahmadi</td>
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<td>Undergraduate Minors</td>
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<td>Website Committee</td>
<td>Schmiediche</td>
<td>Longnecker, Sang, Katzfuss</td>
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</table>
FACULTY EDITORIAL SERVICE

Bhattacharya, Anirban

Chen, Willa
*Journal of Computational and Graphical Statistics* (2009-Present)

Cline, Daren

Dahm, P. Fred

Hart, Jeff

Huang, Jianhua
Editorial Board Member: *STAT—The ISI’s Journal for the Rapid Dissemination of Statistics Research* (2015-Present)

Johnson, Valen
Co-Editor: *Bayesian Analysis* (2010-2014)
*Bayesian Analysis* (2006-2010)

Jones, Edward R.
Editorial Board Member: *Journal of the American Statistical Association* (2014-Present)
*Journal of Business and Economics Statistics* (2012-Present)

Jun, Mikyoung
Editorial Board Member: *STAT*, (2012-Present)
*Journal of Agricultural, Biological, and Environmental Statistics (JABES)* (2011-Present)
*Journal of the Korean Statistical Society* (2008-Present)

Katzfuss, Matthias
Kolodziej, Elizabeth  

Liang, Hwa Chi  
Editorial Board Member: Missouri Journal of Mathematical Sciences (2013-Present)

Long, James  

Mallick, Bani  
Editorial Board Member: Journal of Computational and Graphical Statistics (2004-Present)  
Biostatistics (2009-Present)  
SIAM/ASA Journal on Uncertainty Quantification (2013-Present)  
Chemometrics (2013-Present)  

Müller-Harknett, Ursula  

Pourahmadi, Mohsen  
Editorial Board Member: Journal of the American Statistical Association (2014-Present)  
Journal of Business and Economics Statistics (2012-Present)  
Electronic Journal of Statistics (2010-2012)  

Sang, Huiyan  
Editorial Board Member: STAT (2013-Present)

Sherman, Michael  
Editorial Board Member: Journal of the American Statistical Association (2005-2014)

Sinha, Samiran  

Spiegelman, Cliff  

Subba Rao, Suhasini  
Editorial Board Member: Statistics (2012-Present)

Wang, Suojin  

Wehrly, Tom

Zhou, Lan
<table>
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<tr>
<th>Name</th>
<th>Years</th>
<th>Granting Agency</th>
<th>Role</th>
<th>Direct</th>
<th>Indirect</th>
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<td>Carroll, R. J.</td>
<td>2005-2008</td>
<td>National Aeronautics and Space</td>
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<td>$527,245</td>
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<td>California Table Grape Comm.</td>
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<td>$55,653</td>
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<td>PI</td>
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<td>$4,946*</td>
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<td>$422,846</td>
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<td>PI</td>
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<td>NSF - Cluster-Based Bootstrapping</td>
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<td>2011-2013</td>
<td>NSF-New Method for Estimating Random Effects</td>
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<td>Collaborative Research - Statistical Learning</td>
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<td>Conf. on Statistical Methods</td>
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<td>Department of Defense</td>
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<td>UTMDCC - Reducing Symptom</td>
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<td>NIH - Fetal Alcohol Exposure</td>
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<td>Sinha, S.</td>
<td>2010-2011</td>
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*Indirect costs estimated
### Co-Principal and Collaborating Investigator Awards 2006-2013

(Please note that award totals in some instances refer to total grant amount, not amount received by individual collaborating investigators)

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## FACULTY SUMMARY

### I. Personnel

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<th>2012</th>
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### II. Instructional Activities

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### III. Research Activities

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### Weighted Average Faculty Salary Comparisons vs Peers vs TAMU University-wide vs College

#### Statistics Fall 2009

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T-Tr weighted average: $114,252

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T-Tr weighted average: $108,064

#### Statistics Fall 2010

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T-Tr weighted average: $112,074

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T-Tr weighted average: $110,359

#### Statistics Fall 2011

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T-Tr weighted average: $111,875

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T-Tr weighted average: $115,003

#### Statistics Fall 2012

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T-Tr weighted average: $119,739

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<td>2: Associate Professor</td>
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T-Tr weighted average: $122,780

#### Statistics Fall 2013

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T-Tr weighted average: $128,319

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<td>2: Associate Professor</td>
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<td>3: Assistant Professor</td>
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T-Tr weighted average: $123,881

#### Relative Market

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<th>College</th>
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<tbody>
<tr>
<td>104.95%</td>
<td>110.39%</td>
<td>100.50%</td>
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1. Source: Annual faculty salary survey submission data for full-time tenure-track instructional faculty.
2. Relative market percentage is RPF all rank weighted average divided by comparison all rank weighted average.
3. Not including the department being compared to its' college peers.
4. Weighted average includes only top three Tenure/Tenure track ranks.
## Goldplate Funding 2007-2015

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Budget Reduction #1
Budget Reduction #2
## Semester Credit Hours Taught by Faculty Rank for Fall 2009

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<th>MS</th>
<th>PhD</th>
<th>Total</th>
<th>Grand Total</th>
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<td>14.0</td>
<td>1.4</td>
<td>46.1</td>
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<td>18.8</td>
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IV.
APPENDIX
APPENDIX A.

MS Statistics and Online Programs

In Fall 2007, under the direction of Mike Speed, Director and Simon Sheather, Department Head, the department’s first cohort of 20 students were enrolled in the Distance Learning MS in Applied Statistics program. In 2008, the Transcripted Certificate of Applied Statistics was introduced. In 2009, a joint Texas A&M University/SAS certificate was approved with currently 116 students having received a certificate. This same year, we celebrated our first graduate of the program and the number of supported on-campus graduate students was expanded with the introduction of Technology Teaching Assistants. In the last academic year there were over 1000 enrollments in graduate level Statistics courses online with 117 professionals having completed their MS degree in Statistics. In terms of student quality, more than 90% of distance learning students to date have passed the Masters Qualifying Exam at their first attempt. Our alumni have proven successful by moving on to excel in their fields as vice presidents, teachers, engineers, analysts and scientists working for fortune 500 companies such as, Intel Corp, Chevron, Bank of America and Amgen.

Below is a selection of the employers of our graduates.

Addx Corporation
Advanced Analytics at Cardinal Health
Amgen
Armstrong World Industries
AT&T
Audimation Services, Inc.
Bank of America
BBA Solutions
Biomedical Research Foundation
Boeing Commercial Airplanes
CA Technologies
Capital One Financial Corp., Plano
Chevron
Chief Business Office - Veterans Health
Collin College
Computer Sciences Corporation
Continuum Analysis
Corning Incorporated
CRO
Cyberonics

Deloitte
Denton High School
eBay Enterprise
Ericsson
Gallagher Benefit Services
Highmark Health
Humble ISD
IMS Health
INC Research
Infinity Property & Casualty Company
Informatics Centre of Excellence, Cancer Care Ontario
Intel Corporation
Investment Solutions Group
Janus Capital
KLAS Enterprises
Korn Ferry
Laboratory Corporation of America
Lake Region Medical
Leidos Biomedical Research, Inc for NCI
Mathnasium RVA
Medtronic
Montgomery High School
National Oilwell Varco (NOV)
Newmont Mining Corporation
North Shore Long Island Jewish Health System
Pearson North America
PPD
PRA International
Pros
QBE First
Rigid Closed Top Division
Royal Bank of Canada
RTI International
Sandia National Laboratories
SAS
Slalom Consulting
SpectraCell Laboratories, Inc
St. Jude Medical
SUNY Adirondack College
SUNY Upstate Clinical Campus
Systems Kinetics
The EMMES Corporation
TheHunt.com
Transamerica
U. S. Air Force
U. S. Department of State
U. S. Gypsum Co.
University of Houston
University of Kansas Medical Center
University of Washington
University of Washington - Dept of Surgery
UPC Cablecom
Utah Insurance Group
Vanderbilt University Medical Center
Washington University, St. Louis
Zurich North America
In 2011, Mike Speed retired as Director and Simon Sheather took on this role, as well as continued his role as Department Head. From 2006-2013, more than 10 new graduate courses were introduced. The following is a complete list of courses that have been offered at a distance, including the new courses that were designed specifically for distance delivery.

The courses marked * are new courses.

- STAT 601 Statistical Analysis
- STAT 604 Topics in Statistical Computations
- STAT 607 Sampling
- STAT 608 Regression Analysis
- STAT 626 Methods in Time Series Analysis
- STAT 630 Overview of Mathematical Statistics
- STAT 636 Methods in Multivariate Analysis
- STAT 638 Introductions to Applied Bayesian Methods*
- STAT 641 The Methods of Statistics I
- STAT 642 The Methods of Statistics II
- STAT 643 Biostatistics I
- STAT 645 Applied Biostatistics and Data Analysis*
- STAT 646 Statistical Bioinformatics*
- STAT 651 Statistics in Research I
- STAT 652 Statistics in Research II
- STAT 653 Statistics in Research III
- STAT 656 Applied Analytics Using SAS Enterprise Miner*
- STAT 657 Advanced Programming Using SAS*
- STAT 659 Categorical Data Analysis
- STAT 681 Seminar
- STAT 684 Consulting Credit
- STAT 685 Directed Studies

Since the program’s inception and in light of the rapid growth, the need for more faculty and staff was imperative to continue the program’s success. In fall 2007, the program operated with a director, one part-time program coordinator, an IT specialist and six faculty to teach our online students. In 2008/2009, with applications increasing, and our enrollment more than quadrupling the first year, the need to hire a full time program coordinator, business coordinator to handle accounting and a software specialist to assist the IT specialist was eminent. At this time, the number of courses being taught had increased to thirteen and the number of faculty teaching were ten.

To date, with the continued increase in numbers and ultimate success of the Distance
Learning MS in Applied Statistics program, certificate and non-degree seeking students, there are more than 500 students enrolled taking more than 1000 graduate level statistics courses. Currently, this entire program is run with an academic director, program manager, administrative assistant, a chief of operations and software specialist who oversee technology and 16 TTAs who aid in the set up and recording of classes. In addition, there is a business coordinator who splits her time with other programs. There are currently ten faculty teaching seventeen courses.

The table below summarizes the course enrollments in distance education each semester since the Fall 2008 semester.

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*Projected numbers
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*Projected numbers

The table below summarizes the number of certificates completed by calendar year.

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MS Analytics & Online Programs

Academic Director of MS Analytics & Online Programs
Simon Sheather

Director - Analytics
Myra Gonzalez

Director - Operations
Liam Kizzi

Executive Professor
Edward Imel

Program Manager - Online
Penny Jackson

Business Coordinator
Wanda Brown

Program Manager
Javier Aldana

Student Advisor
Lox Administrator
Nathan Bergus

Assistant
Assistant
Assistant
APPENDIX B.

MS ANALYTICS OVERVIEW

THE NEED FOR ANALYTICS
The U.S. is suffering through a shortage of people with deep analytical skills to analyze big data, an issue deeply impacting corporations. By 2018, that gap is expected to reach between 140,000 and 190,000, according to the McKinsey Global Institute.

In order to regain a competitive advantage, businesses need to retrain the talent currently in place.

THE HISTORY OF THE PROGRAM
Approvals Needed to Offer the MS Analytics Degree

The First Six Months

- Jan. 14, 2013 Program approved by Faculty Senate. Tuition/Fee Sub-council presentation for program fee, forwarded to next step. Corporate Letters of support received. MOU signed with Mays.
- Dec. 6 Program passed by College & Grad Council with Mays Letters of support.
- Mar. Fee goes to public forum and TAMUS for approval.
- Nov 12, 2012 Director hired to steward approval process.
- Feb. 14 Program to Provost for Academic Affairs to be sent as agenda item.
- Apr. Pres approval for BoR Agenda item.
The Department of Statistics has teamed with the Mays Business School to offer a Master of Science in Analytics, ideal for corporate managers and professionals. The degree is geared towards those with expertise in a wide array of industries: oil & gas, retail, healthcare, electronics, and energy.

The program will culminate in a quantitative analysis project specific to your employer. The part-time, five-semester program will provide graduates with comprehensive and balanced training in statistical and business processes. We’re looking to produce data scientists who are thought leaders and innovators.

**THE MODERN SKILL-SET**
- Business Acumen to ask the RIGHT business question.
- Deep Analytical Skills such as market analysis, predictive modeling, web analytics, risk analysis, forecasting
- Technical Expertise such as programming, data warehousing, mining, and visualization
- Soft Skills such as teamwork, communication, and presentation skills

**CURRICULUM**
- 75% Statistics and 25% Business.
LOCATION
CITYCENTRE, HOUSTON

Our program is taught Tuesday and Thursday evenings in-person at Houston's CITYCENTRE (I-10 & Beltway 8). The CityCentre facility was designed by a team of faculty, staff and students to be the ideal environment for executive learning.

We also offer the degree at a distance via live video stream for individuals outside of a 50-mile radius of Houston throughout North America (USA, Mexico, Canada). Live video participants will interact with students and faculty in Houston and are required to appear in-person twice: a 3-day orientation in Week 0 and in their final semester to present their capstone project. Our goal is to replicate the classroom experience, even if you are not in Houston. In addition to giving students the ability to join live classes via video, we record each class. The flexible delivery ensures you won’t miss any material in the event you are unable to make it to class or have to travel for work.

ADMISSION
Admission to the Texas A&M Masters in Analytics program is highly competitive. Strong candidates must meet the following criteria and qualifications:

- Grades
  - Competitive undergraduate or graduate GPA or strong GRE/GMAT scores
- Statistics Competency
  - Completed at least one statistics course with an A or B
- Work Experience
  - At minimum 3 years of full-time work experience
- Purpose
  - A well-written statement of purpose about how this analytics degree will help your organization
- Organizational Support
  - Support from current employer for access and mentorship with a business problem and large data set

REQUIRED APPLICATION MATERIALS
- Completed pre-questionnaire
  (http://analytics.stat.tamu.edu/#contact)
- 3 letters of recommendation or 3 recommendation forms
  (http://www.stat.tamu.edu/dist/Graduate_Letter_of_Rec.pdf)
- Unofficial GRE/GMAT scores if available (may be waived after transcript review)
- Unofficial college transcripts
- Current résumé

Once your complete information is reviewed by a committee, you will receive additional instructions regarding the official application process, should you progress to this stage.

Prior to final admission, all candidates will be required to interview.
COST
The total cost of a Masters in Analytics degree is $50,000 ($10,000 per semester), which includes tuition, required fees, books, supplies, hotel and meals during orientation, and a laptop preloaded with all necessary software. No assistantships or scholarships are available at this time. Given the value added to your organization through the unique work-based project, we strongly suggest that enrollees request sponsorship from their employer for the degree.

COMPETITION
In just 2 years has grown from a handful to over 90 data science and analytics programs.
APPENDIX C.

Proposal for an Undergraduate Major in Statistics.

In the summer of 2014, the Department voted to develop an undergraduate degree program in Statistics. The overall curriculum was designed during the fall semester. Various faculty members developed nine new undergraduate courses to be included in the curriculum. Notable aspects of the curriculum are nine required courses and two elective courses in statistics, four required and two elective courses in mathematics, two elective computer science courses, and four elective courses in an outside specialization area. First-year students will take an overview course that introduces the students to the field of statistics. The curriculum is designed to be flexible, allowing a student, in conjunction with the undergraduate advisor, to develop a program that meets the student’s needs. For example, a student planning to go to graduate school in statistics could take four additional mathematics courses as the outside specialization area. A student who wished to work in genomics would take biologically oriented mathematics and statistics electives and would have biology/genetics as the outside specialization area. All students will be required to take a writing-intensive capstone course.

The program was approved by the College of Science Undergraduate Curriculum Committee in March 2015. The TAMU Undergraduate Curriculum Committee will consider the program during their April 2015 meeting. We anticipate that students will be able to enroll in the program in Fall 2016 with an annual enrollment of more than 60 new students per year. A document describing the program and its motivation follows. Pending approval at the University level, this document will be forwarded to the Texas Higher Education Coordinating Board for final approval of the undergraduate major.
Texas A&M University

Bachelor of Science with a major in Statistics

Program Review Outline

BACKGROUND & PROGRAM DESCRIPTION

Administrative Unit: Department of Statistics, College of Science

The educational objectives of the new program are: master the depth of knowledge required for the degree; work effectively with data; demonstrate critical thinking; communicate effectively; practice personal and social responsibility; demonstrate social, cultural, and global competence; prepare to engage in lifelong learning; work collaboratively. Evaluation will be done via performance metrics on required coursework, in addition to data we will collect on the students after they have completed the program. For more details, see the main proposal document.

The program curriculum will include existing courses in the Departments of Statistics, Mathematics, Computer Science and Engineering, and Industrial and Systems Engineering. In addition, the Department of Statistics will develop ten new courses for the program.

The proposed implementation date is Fall 2016.

Texas A&M University certifies that the proposed new degree program meets the criteria under the 19 Texas Administrative Code, Section 5.45 in regards to need, quality, financial and faculty resources, standards and costs. New costs during the first five years will not exceed $2 million.

I. NEED

A. Employment Opportunities

Statisticians are in demand in all sectors of society. Statisticians use statistical methods to collect and analyze data and help solve real-world problems in business, engineering, the sciences, and other fields. Nearly every agency in the federal government employs statisticians.

Biostatisticians work in pharmaceutical companies, public health agencies, and hospitals. In business, statisticians design experiments for product testing and development. Actuaries use mathematics, statistics, and financial theory to study uncertain future events, especially those of concern to insurance and pension companies.

In a 2009 NY Times article, statistics was cited as being a rapidly expanding field, with employers such as Google and IBM hiring increasing numbers from the field. “I keep saying that the sexy job in the next 10 years will be statisticians. And I’m not kidding.”

chief economist at Google. “Data availability is going to continue to grow. To make that data useful is a challenge. It’s generally going to require human beings to do it,” according to Dr. Varian.

According to the Bureau of Labor Statistics, there were 24,950 workers classified as statisticians in 2013. This represents a 21% increase in the five years since 2008. The field was projected to grow by a further 27% (classified by BLS as “much faster than average”) during 2012 – 2022.³

The Texas Workforce Commission currently lists 500 jobs with the keyword of “statistics” (searched July 11, 2014). According to The Wall Street Journal’s Numbers Guy, Carl Bialik, as of March 2013, there were 28,305 postings for jobs in statistics, analytics, and “big data” at the jobs website icrunchdata; this was up from 16,500 three years earlier.⁴

McKinsey Global Institute published a study in May 2011 entitled “Big Data: The next frontier for innovation, competition, and productivity” that predicts “by 2018 the US will have a shortage of 140,000 – 190,000 people with deep analytical skills as well as 1.5 million managers and analysts with know-how to use the analysis of big data to make effective decisions.”⁵

In December 2014, LinkedIn published a list of the year’s “hottest skills” for recruiting on the site. Statistical analysis and data mining was listed as number one.⁶

B. Projected Enrollment

We anticipate enrollments of 25, 45, 55, 60, and 65 students in the first five years, respectively. At steady state, we expect annual enrollments of 65 students, for an approximate total of 260 students in the program.

C. Existing State Programs

Rice University, Baylor University, the University of Texas at San Antonio, Southern Methodist University, and the University of Houston-Downtown all offer B.S. degrees in statistics.

However, the Department of Statistics at Texas A&M would be the only large statistics department in Texas to offer a B.S. degree in statistics. The Department of Mathematics already offers an Applied Mathematical Sciences (APMS) degree that offers specialization in, among other things, statistics. However, there are very few students in the statistics track (5 or fewer a year), so we expect the vast majority of students pursuing a statistics degree to be new students.

⁴ http://online.wsj.com/articles/SB10001424127887323478304578332850293360468
⁵ http://www.mckinsey.com/insights/business_technology/big_data_the_next_frontier_for_innovation
⁶ http://talent.linkedin.com/blog/index.php/2014/12/the-25-hottest-skills-to-recruit-for-on-linkedin
II. **QUALITY & RESOURCES**

**A. Faculty**

The Department of Statistics has an adequate number of faculty for teaching the program’s courses in the first two years, since many elective courses will not be needed in the first two years of the program. Rather, during the first two years of the program, students in the new program will take courses that are currently offered as service courses. We have requested new faculty positions, to begin in the third year, and these new faculty will be responsible for teaching the remaining elective courses.

Courses will be assigned to faculty by matching course content to faculty interests and areas of expertise. The duties of current faculty that are reassigned will be met by reducing their teaching duties in the graduate program. We anticipate that this reassignment can be managed to have a minimal effect on the graduate programs of the department. The required courses outside the Department of Statistics are existing courses on the TAMU College Station campus.

**B. Program Administration**

Academic advising will be provided by the Director of Undergraduate Programs as well as by a new full-time staff member dedicated to academic advising. An existing staff member will have one quarter of their time reassigned to assist with administrative tasks for the program.

**C. Other Personnel**

None.

**D. Supplies, Materials**

No special supplies or materials will be necessary.

**E. Library**

No additional library resources will be necessary.

**F. Equipment, Facilities**

The program will use existing facilities of the Department of Statistics and the College of Science for classroom, office space, and computer labs. Facilities and equipment will be made available and adequate to conduct this program and to ensure quality in teaching and learning, and be consistent with standards of similar programs in Texas and the US.

**G. Accreditation**

Texas A&M is current with institutional accreditation by the Southern Association of Colleges and Schools. There are no specialized accreditation agencies currently available for undergraduate statistics.
**Catalog Description**

Statistics is the science of collecting and analyzing data for the purpose of making confident decisions in the presence of uncertainty. Large and complex data sets are ubiquitous in the modern day and age, and statisticians are in high demand. Multidisciplinary application areas vary widely and include health and medicine, business, physical sciences, engineering, environmental studies, and government. The curriculum in statistics provides training in all necessary areas, including a mathematical and probabilistic foundation, strategies for designing studies and collecting data, the visualization and analysis of data using popular software such as SAS and R, and the process of using sample data to draw confident conclusions about a population. Depending on the electives selected, a student completing this program will be prepared to enter employment as a statistical analyst or continue to graduate school in statistics or a related field.
### Curriculum in Statistics

#### FRESHMAN YEAR

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¹ Composition and Rhetoric (3-0) 3  
² Computer science elective (4-0) 4  
³ STAT 182 Foundations of Statistics (3-0) 1  
⁴ Science Elective (1-0) 4  
⁵ Outside specialization elective (3-0) 6  
⁶ Outside specialization elective (3-0) 6
SENIOR YEAR

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</tbody>
</table>

Notes:

1. Two lower-level science courses are to be selected from ASTR 111; BIOL 111; BIOL 112; CHEM 101/111 or CHEM 103/CHEM 113; CHEM 102/CHEM 112 or CHEM 104/CHEM 114; PHYS 208; PHYS 218. A third science course is to be selected from any course satisfying the life and physical sciences requirement for the University Core Curriculum.
2. Select 8 hours from CSCE 110, CSCE 111, CSCE 121, or CSCE 206.
3. Select 3 hours from COMM 203, COMM 205, or COMM 243, which fulfills the communication requirement for the University Core Curriculum.
4. Three elective hours must be chosen from the approved University Core Curriculum list for language, philosophy and culture, three elective hours must be chosen from the approved University Core Curriculum list for creative arts, and three elective hours must be chosen from the approved University Core Curriculum list for social and behavior sciences. In addition, 6 hours of courses must be in the area of international and cultural diversity. These may be in addition to University Core Curriculum courses, or if a course in this category satisfies an area or the Core, it can be used to meet both requirements.
5. Students must take at least one course from the following courses: MATH 220, MATH 308, MATH 409, MATH 410, MATH 417 or MATH 437, MATH 442, MATH 446, MATH 447, MATH 469, ISEN 420, ISEN 421, ISEN 424. The student must take a total of at least 12 hours of mathematics and statistics elective courses.
6. Students must take 12 hours in an outside specialization area upon approval by a departmental advisor. At least 6 hours must be upper level hours.
7. Students must take at least two courses from the following courses: STAT 407, STAT 426, STAT 436, STAT 438, STAT 445, STAT 446, STAT 459, STAT 485, STAT 489, STAT 491, ISEN 314. The student must take a total of at least 12 hours of mathematics and statistics elective courses.

*If a grade of D or F is earned in any of the following courses, MATH 151/MATH 171, MATH 152/MATH 172, MATH 221/MATH 251/MATH 253, MATH 220, MATH 323, MATH 308, STAT 211, or STAT 212, this course must be immediately retaken and a grade of C or better earned. The department will allow at most two D’s in upper-level (325-499) courses. If a third D is earned, one of the three courses in which a D was earned must be retaken and a grade of C or better earned.
APPENDIX D.

Postdoctoral Training Program in Biostatistics, Bioinformatics and the Biological Basis of Nutrition and Cancer

Director: Raymond J. Carroll

In 2001, the Department of Statistics was awarded a National Cancer Institute (NCI) R25T grant (CA-R25T090301: Postdoctoral Training Program in Biostatistics, Bioinformatics and the Biological Basis of Nutrition and Cancer, Raymond J. Carroll, P.I.). This multidisciplinary grant included investigators from the Department of Statistics, the Department of Electrical and Computer Engineering, and the Faculty of Nutrition. The associate director of the grant, Dr. Nancy Turner, is now a professor in the Department of Nutrition and Food Sciences. Department of Statistics mentors have included Bani Mallick, Jianhua Huang, Alan Dabney, Marina Vannucci, and Naisyin Wang.

The Program has received $500,000 per year in direct costs, and has also had substantial matching funds from the College of Science, the College of Engineering, and the College of Agriculture and Life Sciences.

The purpose of the grant was to train postdoctoral statisticians and electrical engineers on the role of nutrition in cancer development. The 6 investigators in Nutrition, all lab-based biochemists, serve as mentors for all trainees. The trainees first visit 3 laboratories for a month each, and then select a mentor for the rest of their time in the program. They spend approximately 20% of their time physically in the lab of their nutrition mentors and are provided offices within the Department of Statistics or the Department of Electrical and Computer Engineering.

The trainees spend 2-3 years in the program, and there are 4 trainees in any given year. NCI requires all trainees to be U.S. citizens or permanent residents. To date, there have been 26 trainees, including current ones. They are listed below. Most of them left the program with at least one first-authored paper in a nutrition or cancer journal. The substantial direct exposure to a lab means that many of the trainees have a very deep understanding of the biological issues around nutrition and cancer, and the technologies associated with them.

The Program was renewed in 2006 and 2011, with almost perfect scores each time. These scores reflect that the trainees are actually contributing to our understanding of nutrition and cancer. We had every expectation of renewal in 2016, but unfortunately the NCI withdrew the Program Announcement in 2013, and there is no possibility of submitting a renewal. We are contemplating submitting a “renewal” but for the only mechanism possible, a T32, although the amount of funding available to support postdocs via a T32 is much less than for the R25T. There is also a possibility that the Cancer Prevention Institute of Texas (CPRIT), a State of Texas agency, will announce a competition for training programs.
## Current and Past Trainees

<table>
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<th>Current Title</th>
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<tr>
<td>Aniruddha Datta</td>
<td>University of Southern California</td>
<td>J.W. Runyon, Jr. ’35 Professor II</td>
<td>TAMU Electrical &amp; Computer Engineering</td>
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<td>Danh Nguyen</td>
<td>UC Davis, California</td>
<td>Professor</td>
<td>University of California, Irvine Medical School</td>
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<tr>
<td>Qi Zheng</td>
<td>Texas A&amp;M University</td>
<td>Associate Professor</td>
<td>TAMU School of Public Health</td>
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<tr>
<td>Mahlet Tadesse</td>
<td>Harvard University</td>
<td>Associate Professor</td>
<td>Georgetown College</td>
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<tr>
<td>Kimberly Drews</td>
<td>Texas Tech University</td>
<td>Associate Research Professor</td>
<td>George Washington University</td>
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<tr>
<td>Wenjiang Fu</td>
<td>University of Toronto</td>
<td>Professor</td>
<td>University of Houston</td>
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<tr>
<td>Ivan Ivanov</td>
<td>University of South Florida</td>
<td>Clinical Associate Professor</td>
<td>TAMU, School of Veterinary Medicine</td>
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<td>Michael Swartz</td>
<td>Rice University</td>
<td>Assistant Professor</td>
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<td>Erchin Serpedin</td>
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<td>Sujay Datta</td>
<td>University of Connecticut</td>
<td>Associate Professor</td>
<td>University of Akron</td>
</tr>
<tr>
<td>Lan Zhou</td>
<td>University of California</td>
<td>Associate Professor</td>
<td>TAMU Department of Statistics</td>
</tr>
<tr>
<td>Ann Chen</td>
<td>Medical University of S. Carolina</td>
<td>Assistant Member</td>
<td>Moffitt Cancer Center</td>
</tr>
<tr>
<td>Xiaoning Qian</td>
<td>Yale University</td>
<td>Assistant Professor</td>
<td>University of South Florida</td>
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<tr>
<td>Ivan Zorych</td>
<td>Rutgers University</td>
<td>Unknown</td>
<td>Recently at Columbia University with D. Madigan</td>
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<tr>
<td>Yuliya Kaprievitch</td>
<td>Medical University of S. Carolina</td>
<td>Lecturer</td>
<td>University of Tasmania</td>
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<tr>
<td>Scott Schwartz</td>
<td>Duke University</td>
<td>Research Associate</td>
<td>University of Texas, Austin</td>
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<tr>
<td>Nikolay Bliznyuk</td>
<td>Cornell University</td>
<td>Assistant Professor</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Carmen Tekwe</td>
<td>University of Buffalo</td>
<td>Assistant Professor</td>
<td>TAMU School of Public Health</td>
</tr>
<tr>
<td>Tanya Garcia</td>
<td>Texas A&amp;M University</td>
<td>Assistant Professor</td>
<td>TAMU School of Public Health</td>
</tr>
<tr>
<td>Xiangfang Li</td>
<td>Rutgers University</td>
<td>Assistant Professor</td>
<td>Prairie View A&amp;M University</td>
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<tr>
<td>Maria Joseph</td>
<td>Iowa State University</td>
<td>Senior Statisticist</td>
<td>General Dynamics Information Technology</td>
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<tr>
<td>Amin Zollanvari</td>
<td>Texas A&amp;M University</td>
<td>Assistant Professor</td>
<td>Electronic Engineering Istanbul Kemerburgaz University</td>
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<tr>
<td>Roger Zoh</td>
<td>Iowa State University</td>
<td>Research Assistant Professor</td>
<td>TAMU School of Public Health</td>
</tr>
<tr>
<td>Houssein Assaad</td>
<td>The University of Texas at Dallas</td>
<td>Research Assistant Professor</td>
<td>STATA Corporation</td>
</tr>
<tr>
<td>Daniel Mohsenizadeh</td>
<td>Texas A&amp;M University</td>
<td>Research Assistant Professor</td>
<td>TAMU Electrical and Computer Engineering</td>
</tr>
<tr>
<td>Mathew McLean</td>
<td>Cornell University</td>
<td>Research Assistant Professor</td>
<td>TAMU Department of Statistics</td>
</tr>
</tbody>
</table>
APPENDIX E.

Institute for Applied Mathematics and Computational Science (IAMCS) and the Department of Statistics

The Institute for Applied Mathematics and Computational Science (IAMCS) was founded in 2008 with James A. Calvin (Statistics) as the Director. The IAMCS received substantial funding for a 6-year contract from the King Abdullah University of Science and Technology in Saudi Arabia (KAUST), the only western style university in that country. In 2010 Dr. Calvin took a position at KAUST, and Raymond J. Carroll became the new Director, a position he still holds.

The IAMCS had members from many colleges in the University, particularly the College of Science, the College of Engineering and the College of Geosciences. The great majority of the initial members were from the Departments of Statistics, Mathematics and Computer Science and Engineering. In Statistics, the members have included Bani Mallick, Jianhua Huang, Valen Johnson, Suojin Wang, Marc Genton, Faming Liang, Mikyoung Jun, Huiyan Sang and Yanyuan Ma.

Coincidental with the KAUST contract, the IAMCS also participated in a university-wide competition to select senior hires. Our group, called Applied Mathematics, Statistics and Computer Science (AMSCS), were winners of this competition, and we commenced searches in each of the 3 named departments. The Statistics hire was Valen Johnson, now Head of the Department of Statistics. The AMSCS program is funded by the Office of the Provost, which provides funding for a staff member to run the day-to-day details of IAMCS, along with a small amount of funding for activities such as workshops, invited speakers, etc.

Through its own funds, the IAMCS sponsors or co-funds workshops, invited speakers, visitors and events. In the current 2014-2015 fiscal year, the IAMCS has supported the following workshops.

- Workshop on fractional differential equations: inverse problems, modeling and numerical analysis
- Workshop on spatial statistics
- Workshop on inverse problems and spectral theory
- Workshop on computational fluid dynamics

IAMCS is also hosting a reception for Alain Goriely from the University of Oxford, who is giving a Department of Mathematics Frontiers in Mathematics Lecture Series. Dr. Goriely also was the Director of a KAUST-funded Center.
<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Organizer/Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/10/10</td>
<td>Taxonomy for the Automated Tuning of Matrix Algebra Software</td>
<td>Elizabeth R. Jessup</td>
</tr>
<tr>
<td>10/13/10</td>
<td>Using Algebraic Multi-grid for Numerical Upscaling</td>
<td>Panayot S. Vassilevski</td>
</tr>
<tr>
<td>10/18/10</td>
<td>On Steady and Unsteady Flows of Implicitly Constituted Incompressible Fluids</td>
<td>Joseph Malek</td>
</tr>
<tr>
<td>10/21/10</td>
<td>Alignment of LC-MS Proteomics Datasets Using Internal Anchors</td>
<td>Alan Dabney</td>
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<tr>
<td>11/4/10</td>
<td>Fast Algorithms for Analyzing Large Collections of Evolutionary Trees</td>
<td>Tiffani Williams</td>
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<tr>
<td>11/17/10</td>
<td>Adaptive Anisotropic Meshing and Level Set for Free Surface and Interface Flow Problems</td>
<td>Thierry Coupez</td>
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<tr>
<td>11/18/10</td>
<td>Disease-Induced Juvenile Mortality and Transient and Asymptotic Population Dynamics of Chinook Salmon</td>
<td>Masami Fujiwara</td>
</tr>
<tr>
<td>11/30/10</td>
<td>Spatiotemporal modeling of Mortality Risks using P-Splines: An Application to Brain Cancer</td>
<td>Lola Ugarte</td>
</tr>
<tr>
<td>12/2/10</td>
<td>Predicting Radiating Shock Experiments</td>
<td>Ryan McClaren</td>
</tr>
<tr>
<td>1/20/11</td>
<td>Modeling of Magnetic Shape Memory Alloys</td>
<td>Dimitris Lagoudas</td>
</tr>
<tr>
<td>1/28/11</td>
<td>ADI Method for Sylvester Equations</td>
<td>Ren-Cang Li</td>
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<tr>
<td>2/2/11</td>
<td>Detecting Small Low Emission Sources on a Large Random Background</td>
<td>Peter Kuchment</td>
</tr>
<tr>
<td>2/3/11</td>
<td>Performance Characteristics of Hybrid MPI/Open MP Implementations of NAS Parallel Benchmarks SP and BT on Large-Scale Cray XT and Blue Gene/P Supercomputers</td>
<td>Xingfu Wu</td>
</tr>
<tr>
<td>2/17/11</td>
<td>Estimation of the Drag Coefficient Using the Oceans Responses to a Hurricane: A Data Assimilation Approach</td>
<td>Sarah Zedler</td>
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<tr>
<td>2/17/11</td>
<td>Surveillance for Emerging Space-Time Clusters</td>
<td>Renato Assuncao</td>
</tr>
<tr>
<td>2/23-24/11</td>
<td>Visualization in Biomedical Computation</td>
<td>Guy Almes, John Keyser, Wolfgang Bangerth, Bani Mallick</td>
</tr>
<tr>
<td>3/2/11</td>
<td>Integrated Second Generation Sequencing and Microarray Based Analyses to Identify Genetic Variants</td>
<td>Scott Dindot</td>
</tr>
<tr>
<td>3/24/11</td>
<td>First Steps of Coupling 2D and 3D Models for Lake Simulations</td>
<td>Barbell Janssen</td>
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<tr>
<td>3/31/11</td>
<td>New Methods for Avian Distribution and Abundance Estimation</td>
<td>Bret Collier</td>
</tr>
<tr>
<td>4/4/11</td>
<td>Pathway Regulatory Analysis and Modeling of Drug Intervention Effects in the Context of Bayesian Networks</td>
<td>Ivan Ivanov</td>
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<tr>
<td>4/7/11</td>
<td>Global Sub-Micrometer-Level Survey of the Mouse Brain Microstructures Using the Knife-Edge Scanning Microscope</td>
<td>Yoonsuck Choe</td>
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<tr>
<td>4/25/11</td>
<td>Multilevel Methods for Nonconforming FEM Systems</td>
<td>Svetozar Margenov</td>
</tr>
<tr>
<td>4/26/11</td>
<td>Coupling Water-Column Bio-Optics and Coral Reef Ecology to Predict Impacts of Climate Change and Coastal Zone Development</td>
<td>Daniel Roelke</td>
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<tr>
<td>5/2/11</td>
<td>Modern C++ Design for Modern Computer Architectures: Meta Programming for Higher Performance Computing</td>
<td>Joel Falcou</td>
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<tr>
<td>5/20-21/11</td>
<td>Statistical Inverse Problems in the Biosciences</td>
<td>Yanyuan Ma, Raymond Carroll</td>
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<td>5/23-27/11</td>
<td>Applied Inverse Problems Conference</td>
<td>Bill Rundell</td>
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<tr>
<td>5/31-31/11</td>
<td>3rd Annual Spring Symposium</td>
<td>IAMCS</td>
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<tr>
<td>8/26/11</td>
<td>Construction of High Order Schemes for the Compressible Euler and Navier-Stokes Equations</td>
<td>Remi Abgrall</td>
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<tr>
<td>9/8/11</td>
<td>Massively Parallel Finite Element Simulations with Application to Convection in the Earth's Mantle</td>
<td>Timo Heister</td>
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<tr>
<td>9/10-11/11</td>
<td>Ecosystem Modeling, Simulation and Assessment Workshop</td>
<td>Daniel Roelke</td>
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<tr>
<td>9/22/11</td>
<td>Interrogating Genomes Through Next Generation Sequencing</td>
<td>Scott Dindot</td>
</tr>
<tr>
<td>Date</td>
<td>Title</td>
<td>Presenter</td>
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<tr>
<td>9/26/11</td>
<td>Statistical Methods for Exploring Metabolic Networks</td>
<td>Erkki Somersalo</td>
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<tr>
<td>10/6/11</td>
<td>Stochastic Trojan Y-Chromosome Models for Eradication of Invasive Fish</td>
<td>Xueying Wang</td>
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<tr>
<td>10/27/11</td>
<td>Composing Parallel Applications Using Paragraphs</td>
<td>Timmie Smith</td>
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<tr>
<td>11/3/11</td>
<td>Parallel Finite Elements Earthquake Rupture Simulations on Large-Scale Multicore Supercomputers</td>
<td>Xingfu Wu</td>
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<tr>
<td>11/17/11</td>
<td>Coupled Global-Regional Data Assimilation with an Ensemble-based Approach</td>
<td>Istvan Szunyogh</td>
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<tr>
<td>12/7/11</td>
<td>Variance Reduction Methods in Stochastic Homogenization</td>
<td>Frederic Legoll</td>
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<td>1/26/12</td>
<td>Joint High-dimensional Bayesian Variable and Covariance Selection with an Application to eQTL Analysis</td>
<td>Anindya Bhadra</td>
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<tr>
<td>2/16/12</td>
<td>Identifying Mechanistic Similarities in Drug Responses</td>
<td>Ivan Ivanov</td>
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<td>2/21/12</td>
<td>Implicit-explicit Runge-Kutta Methods with Stabilized Finite Elements for Advection-diffusion Equations</td>
<td>Alexandre Ern</td>
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<tr>
<td>3/1/12</td>
<td>Research Topics in Quantitative Population Ecology</td>
<td>Masami Fujiwara</td>
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<tr>
<td>3/3/12</td>
<td>Sparsity Constraint in Electrical Impedance Tomography: Complete Electrode Model</td>
<td>Matthias Gehre</td>
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<tr>
<td>3/5/12</td>
<td>Robust Parameter Mesh-Free Preconditioner for a Boundary Control Elliptic</td>
<td>Marcus Sarkis</td>
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<td>3/6/12</td>
<td>Fekete-Gauss Spectral Elements with Application to Navier-Stokes flows</td>
<td>William Kleiber</td>
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<td>3/8/12</td>
<td>Computer Model Calibration with High and Low Fidelity Model Output for Spatio-Temporal Data</td>
<td>Guang Cheng</td>
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<tr>
<td>3/19/12</td>
<td>A Bayesian Framework for the Solution of High-Dimensional Stochastic PDEs</td>
<td>Nicholas J. Zarabas</td>
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<tr>
<td>3/22/12</td>
<td>The Effect of a Surface Tension on the Stress Field near a Curvilinear Crack</td>
<td>Anna Zemlyanova</td>
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<td>4/4/12</td>
<td>Joint Asymptotics and Inferences for Partly Linear Models</td>
<td>Guang Cheng</td>
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<td>4/5-6/12</td>
<td>Computational Biomedicine &amp; Geophysics Workshop</td>
<td>Jay Walton</td>
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<td>4/6/12</td>
<td>Bootstrapping Independent Component Analysis</td>
<td>Zhuqing Yu</td>
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<tr>
<td>4/12/12</td>
<td>Nonstationary Cross-covariance Models for Multivariate Processes on a Globe</td>
<td>Mikyoung Jun</td>
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<td>4/24/12</td>
<td>Optimal Design, Resonance and Bandgap Formation in Gouplaud-type Elastic Media</td>
<td>George Gazonas</td>
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<td>5/6-8/12</td>
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<td>IAMCS</td>
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<td>5/8-9/12</td>
<td>Modeling and Simulation of Wave Propagation and Applications@KAUST</td>
<td>Yalchin Efendiev, Victor Calo</td>
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<tr>
<td>7/19/12</td>
<td>Adaptive Wavelets for Uncertainty Quantification in Dynamical Systems</td>
<td>Denis Dreano</td>
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<td>8/2/12</td>
<td>Efficient Estimation of Dynamics Density Functions with an Application to Outlier Detection</td>
<td>Abdulhakim Qahtan</td>
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<td>8/9/12</td>
<td>Computational Electromagnetics Laboratory at KAUST and Development of Exact Absorbing Boundary Conditions There</td>
<td>Kostyantyn Sirenko</td>
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<td>9/20/12</td>
<td>Local Properties of Irregularly Observed Gaussian Fields</td>
<td>Myounjgi Lee</td>
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<tr>
<td>10/4/12</td>
<td>Visual Cortical Response Power Law and Perceptual Thresholding</td>
<td>Yoonsuck Choe</td>
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<td>10/12-13/12</td>
<td>Climate Science and Spatial Statistics</td>
<td>Huiyan Sang, Mikyoung Jun</td>
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<tr>
<td>10/18/12</td>
<td>Environmental Effect on Egress Simulation</td>
<td>Sam Rodriguez</td>
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<tr>
<td>10/29/12</td>
<td>Understanding Soot Growth Turbulent Nonpremixed Glame via Direct Numerical Simulation and Lagrangian Statistics</td>
<td>Fabrizio Bisetti</td>
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<td>11/1/12</td>
<td>The STAPL Parallel Graph Library</td>
<td>Harshvardhan</td>
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<tr>
<td>11/28/12</td>
<td>Adaptive Graph Regularized Nonnegative Matrix Factorization via Feather Selection</td>
<td>Jingyan Wang</td>
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<tr>
<td>11/28/12</td>
<td>Joint Estimation of Multiple Bivariate Densities of Protein Backbone Angles Using an Adaptive Exponential Spline Family</td>
<td>Mehdi Maadooliat</td>
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<td>12/10/12</td>
<td>An Axiomatic and Data Driven View on the EPK Paradox</td>
<td>Maria Grith</td>
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<td>2/7/13</td>
<td>Transmission-Recovery Tradeoff in Mathematical Modeling of Infectious Diseases</td>
<td>Renata Ivanek</td>
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<td>3/7/13</td>
<td>The Probability of a Salmonellosis Outbreak on a Grower-Finisher Pig Farm</td>
<td>Glenn Lahodny</td>
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<tr>
<td>3/22/13</td>
<td>Parallel Programming with R</td>
<td>Xingfu Wu</td>
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<td>Date</td>
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<td>Title</td>
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<td>4/5/13</td>
<td>Intro: Parallel Programming With R</td>
<td>Xingfu Wu</td>
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<td>4/18/13</td>
<td>STAPL</td>
<td>Nathan Thomas</td>
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<td>Scalable, Incremental Learning with MapReduce Parallelization for Cell Detection in High-Resolution 3D</td>
<td>Chul Sung</td>
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<tr>
<td>5/12-13/13</td>
<td>5th Annual Spring Symposium</td>
<td>IAM Sung</td>
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<tr>
<td>11/15/13</td>
<td>Simulation and Statistics in Graphics</td>
<td>John Keyser</td>
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<td>2/5/14</td>
<td>Synergizing Electromagnetic and Seismic Techniques for Enhanced Reservoir History Matching via Data Assimulation Techniques</td>
<td>Klemens Katterbauer</td>
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<tr>
<td>2/6/14</td>
<td>Workshop on Fractional Differential Equations: Inverse Problems, Modeling and Numerical Analysis</td>
<td>Meriem Laleg, Raycho Lazarov, Bill Rundell</td>
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<td>2/27/14</td>
<td>Arid Zone Hydrology under Climate Change Scenarios for the 21st Century</td>
<td>Binayak Mohanty, Matthew McCabe</td>
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<tr>
<td>4/22/14</td>
<td>IAMCS Machine Learning &amp; Applied Statistics Workshop Series- A Prediction Divergence Criterion for Model Selection</td>
<td>Maria-Pia Victoria-Feser</td>
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<td>10/17-19/14</td>
<td>Inverse Problems and Spectral Theory</td>
<td>G. Berkolaiko</td>
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<td>1/29/15</td>
<td>Workshop on Spatial Statistics</td>
<td>Mikyoung Jun, Matthias Katzfuss, Huiyan Sang</td>
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<tr>
<td>4/8/15</td>
<td>Computational Fluid Dynamics</td>
<td>Jean-Luc Guermond, Andrea Bonito, Bojan Popov</td>
</tr>
</tbody>
</table>
APPENDIX F.

Center for Statistical Bioinformatics

The Center was approved by the Board of Regents in March, 2007. Its mission was to serve as a focus for activities in Bioinformatics that were of a statistical nature. Given the great interest in Bioinformatics, including at least one White paper included in the final list, the mission of the Center remains critical.

There is no budget for the Center, whose activities are supported by individual funds. The Center’s main activities are to host visitors and run seminars that are open to the entire university committee. We announce all talks via our web site, broadcast mailings, and through the Alliance for Bioinformatics, Computational Biology and Systems Biology. Our activities are done in coordination with the NCI-funded R25T Training Program in Biostatistics, Bioinformatics and Nutrition. We need some university support to make this center more active and competitive.

<table>
<thead>
<tr>
<th>Current Members of the Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bani K Mallick (Director)</td>
</tr>
<tr>
<td>Raymond Carroll</td>
</tr>
<tr>
<td>Alan Dabney</td>
</tr>
<tr>
<td>David Dahl</td>
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<tr>
<td>Aniruddha Datta</td>
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<td>Edward Dougherty</td>
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<td>Ruzong Fan</td>
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<tr>
<td>Ivan Ivanov</td>
</tr>
<tr>
<td>Faming Liang</td>
</tr>
<tr>
<td>Jeff Hart</td>
</tr>
<tr>
<td>Samiran Sinha</td>
</tr>
<tr>
<td>Cliff Spiegelman</td>
</tr>
</tbody>
</table>
## APPENDIX G.

Statistics Gifts and Endowments

<table>
<thead>
<tr>
<th>Name</th>
<th>Original Endowment/Gift</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Margaret Sheather Memorial</td>
<td>$26,150</td>
<td>Award given to the best Master’s Project</td>
</tr>
<tr>
<td>Ronald R Hocking Endowment Lecture</td>
<td>$50,000</td>
<td>Conference - Hocking Lecturer Series</td>
</tr>
<tr>
<td>Emanuel &amp; Carol Parzen Innovation</td>
<td>$28,285</td>
<td>Conference and Honorarium Award</td>
</tr>
<tr>
<td>Raymond Carroll Young Investigator</td>
<td>$37,101</td>
<td>Conference and Honorarium Award</td>
</tr>
<tr>
<td>Jill &amp; Stuart Harlin '83 Chair</td>
<td>$1,000,000 (planned)</td>
<td>Chair in Statistics</td>
</tr>
<tr>
<td>Roland H Acra '86</td>
<td>$25,000</td>
<td>Award given to the best Master’s Project in Analytics</td>
</tr>
<tr>
<td>Eva L. &amp; Lee H Smith Endowment</td>
<td>$25,000</td>
<td>Scholarship payment toward tuition</td>
</tr>
<tr>
<td>Ruth &amp; Howard Newton Memorial</td>
<td>$25,738</td>
<td>Scholarship payment toward tuition</td>
</tr>
<tr>
<td>STAT Former Student Fellowship</td>
<td>$26,028</td>
<td>Scholarship payment toward tuition</td>
</tr>
<tr>
<td>Norbert Hartmann, Jr.</td>
<td>$50,500</td>
<td>Scholarship payment toward tuition</td>
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<tr>
<td>Anant Kshirsager Endowment</td>
<td>$100,000</td>
<td>Scholarship payment toward tuition</td>
</tr>
<tr>
<td>James C. Goodlett '67</td>
<td>$24,983</td>
<td>Scholarship payment toward tuition</td>
</tr>
<tr>
<td>George P. Mitchell ’40 Chair</td>
<td>$1,000,000</td>
<td>Chair in Statistics</td>
</tr>
<tr>
<td>SAS Gift to M.S. Analytics</td>
<td>$1,000,000</td>
<td>Gift to the Analytics Program</td>
</tr>
<tr>
<td>Norbert Hartman Legacy Gift</td>
<td>$1,750,000 (planned)</td>
<td>Gift to the Department</td>
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</table>
# APPENDIX H.

## Spring 2009 Colloquium & Seminar Speakers

<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE OF ABSTRACT</th>
<th>DATE</th>
</tr>
</thead>
</table>
| Alyson G. Wilson  
Iowa State University | Statistical Challenges from Science-Based Stockpile Stewardship | January 22 |
| Elvezio Ronchetti  
University of Geneva | A New Robust and Accurate Test for Generalized Linear Models | January 29 |
| Olga Savchuck  
TAMU Statistics | Choosing a Kernel for Cross-Validation | February 3 |
| Sushasini Subba Rao  
TAMU Statistics | What to Do When the Standard Assumptions in a Multiple Linear Regression are Not Satisfied | February 10 |
| Akihiko Inoue  
Hokkaido University | Dynamics of Indifference Prices Derived from Optimal Intertemporal Risk Allocations | February 12 |
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# Spring 2011 Colloquium & Seminar Speakers

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<td>Matthew Reimherr</td>
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<td>Matthias Katzfuss</td>
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<td>Chae Young Lim</td>
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Georgia State University | Restricted Local Polynomial Fitting and Parameter Estimation in ODE and PDE | September 27 |
| Roy Parsons  
Dell | Review of Dell Global Services Engineering Organization and Ph.D Internship Opportunities | October 7 |
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Pennsylvania State University | Dimensional Analysis and Its Applications in Statistics | October 11 |
| Yanyuan Ma  
Texas A&M University, Statistics | Workshop on Semiparametric Efficiency | October 17 |
| Eric C. Chi  
Rice University | Some Recent Developments and Applications of the MM Algorithm | October 18 |
| Chuanhua Liu  
Purdue University | Exact Prior-Free Probabilistic Inference: The Inferential Model Approach | October 25 |
| Bing Li  
Pennsylvania State University | On an Additive Semi-Graphoid Model for Statistical Networks with Application to Pathway Analysis | November 1 |
| Anthea Monod  
Technicon - Israel Institute of Technology | Estimating Thresholding Levels for Random Fields via Euler Characteristics | November 8 |
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University of Texas at Austin | A Bayesian Nonparametric Approach to Monotone Missing Data in Longitudinal Studies with Informative Missingness | November 15 |
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Texas A&M University, Statistics | Henrik Talks Tech: A Workshop on Computing Resources | November 20 |
| Clifford Spiegelman  
Texas A&M University, Statistics  
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♦ Statistics Graduate Student Association (SGSA) Seminar/Event
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Stanford University | Frequentist Accuracy of Bayesian Estimates | January 24 |
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Stanford University | Learning About the Visual Cortex From Predictive Models | January 31 |
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Ohio State University | Bayesian Synthesis and Clustered Bayesian Model Averaging | February 7 |
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| ♦ Anirban Bhattacharya  
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Texas A&M University | Experiences During the Job Search Process | February 25 |
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| Debdeep Pati  
Florida State University | Bayesian Model Based Shape Clustering | March 7 |
| Rui Tuo  
Chinese Academy of Sciences  
Georgia Institute of Technology | A Theoretical Framework for Calibration in Computer Models: Parametrization, Estimation and Convergence Properties | March 21 |
| Linglong Kong  
University of Alberta | Spatially Varying Coefficient Model for Neuroimaging Data | March 28 |
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Ohio State University | The Blended Paradigm: A Bayesian Approach to Handling Outliers and Misspecified Models | April 4 |
| Jiashun Jin  
Carnegie Mellon University | Graphlet Screening for Rare and Weak Signals | April 11 |
| Stéphane Guerrier  
University of California, Santa Barbara | Wavelet Variance Based Estimation of Latent Time Series Models | April 25 |
| Judea Pearl  
University of California, Los Angeles | The Science of Cause and Effect | May 9 |

♦ Statistics Graduate Student Association (SGSA) Seminar/Event
### Fall 2014 Colloquium & Seminar Speakers

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*University of California, Davis*        | Change-Point Detection for Multivariate and Object Data                             | September 5 |
| William B. Tarinelli, Jr.  
♦Travelers Insurance                           | Industry Recruiting: Advanced Analytics Development and Internship Program            | September 10|
| Eric Vance  
(LISA) Virginia Tech                       | LISA 2020: Creating a Network of Statistical Collaboration Laboratories             | September 19|
| Qiongxia Song  
*University of Texas at Dallas*             | Simultaneous Inference for the Mean of Functional Time Series                       | September 26|
| Minshuk Shin, Shahina Rahman, Nan Zhang, Scott Goddard  
♦Texas A&M Statistics                           | Secrets to Success                                                                 | September 26|
| Val Johnson, Michael Longnecker, Jianhua Huang  
♦Texas A&M Statistics                           | Town Hall Meeting                                                                  | October 2   |
| Ana-Maria Staicu  
*North Carolina State University*            | Classical Testing in Functional Linear Models                                      | October 3   |
| Christopher Wikle  
*University of Missouri*                        | Interaction-Based Parameterizations for Nonlinear Dynamic Spatio-Temporal Statistical Models | October 10  |
| David B. Dunson (Hartley Lectures)  
*Duke University*                                 | Bayes for Big Ideas  
Wasserstein Posteriors: Robust and Scalable Bayes  
Bayes for Big Tables and Networks               | October 13  
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| Genevera Allen  
*Rice University*                                  | A General Framework for Mixed Graphical Models                                    | October 24  |
| Jeffrey W. Miller  
*Duke University*                                  | Combinatorial Stochastic Processes for Variable-Dimension Models                 | October 31  |
| Gary Beach, Ian Wilson, Jared Harlow, Lucy Luo, Mike Davidson  
♦ConocoPhillips                                | Industry Recruiting: Global New Ventures Exploration (GNVE) and Geosciences & Reservoir Engineering (GRE) | November 5  |
| Trevor J. Hastie (2014 Parzen Prize)  
*Stanford University*                             | Sparse Linear Models                                                              | November 6  |
| Lorenzo Trippa  
*Harvard University*                                | Bayesian Nonparametric Cross-Study Validation of Predictions Methods              | November 7  |
| Nathaniel Litton, Robert Cezeaux  
♦Capital One                                         | Industry Recruiting: Analytics Program Recruitment                               | November 12 |
| Jae-Kwang Kim  
*Duke University*                                  | Propensity-Score-Adjustment Method for Nonignorable Nonresponse                   | November 14 |
| Nancy Reid (ADVANCE Speaker Series)  
*University of Toronto*                             | Approximate Likelihoods  
“The Whole Woman Thing”                                        | November 17  
November 18  |
| Xiaoming Huo  
*Georgia Institute of Technology*                   | Fast Computing for Statistical Dependency                                          | November 21 |
| Sharon Durham, Matt Witten, Lance Pate  ♦Rackspace   | Industry Recruiting: Presentation from Data Science & Analytics Leaders           | December 3  |
| Arnab Maity  
*North Carolina State University*                  | Testing for Additivity in Nonparametric Regression                                | December 5  |
| Jason D. Lee  
♦Stanford University                                 | Teaching and Research Interests                                                   | December 17 |

♦Statistics Graduate Student Association (SGSA) Seminar/Event  
♦Faculty Recruiting Candidate
APPENDIX I.

Department of Statistics Alumni Advisory Board

In 2008 the Department of Statistics began an Alumni Advisory Board. This small group of alumni provides guidance to the department on its current operations and future development. The current board members, as well as those who have served in the past, were selected based on their outstanding graduate record and on their continuing success in the field of statistics. Members of the Alumni Advisory Board are typically invited to campus once or twice a year to meet with the department head and offer input on the direction of departmental programs. The most recent board meeting was held on January 28, 2015. Agenda items discussed were the Distance Learning Program, the M.S. in Analytics program, the Graduate Program, and the Undergraduate Degree Proposal.

Below please find resumes for the following Alumni Advisory Board members: Ersen Arseven, Christian Galindo, Marcy Johnson, Michael Kutner, Jeffrey Morris, and Scott Grimshaw.
Overview of experience and accomplishments

I am a Ph.D. Statistical and Process Consultant with more than 35 years of successful clinical and non-clinical drug development experience in eleven therapeutic areas with twelve NDAs. My Therapeutic area experience includes cardiovascular diseases, gastrointestinal disorders, infectious diseases, oncology, ophthalmology, pulmonary diseases, sleep disorders, vaccines, diagnostic agents, tuberculin diagnostic tests, medical devices and hospital products.

I developed my technical and management skills working at line and senior management positions in American and European multinational pharmaceutical companies with worldwide responsibility for Statistics, Data & Document Management, and Medical Systems for non-clinical and clinical drug development and registration.

I have developed a global outlook on the scientific, regulatory, and competitive market pressures facing the pharmaceutical industry. Consulting with top-tier companies in the pharmaceutical and information technology industries further enhanced the breadth and depth of my knowledge and experience, and has given me a wealth of practical and useful insight into the discovery and development of biopharmaceutical/biotechnology products.

I have excellent technical knowledge, and very good people and interpersonal skills.

I make use of innovative and pragmatic approaches for sound operational staging of development projects and clinical trials with optimal deployment of internal and external resources for faster development, approvals, and transition of new drugs to marketing. Some highlights of my record of results:

- Excellent knowledge and experience in global development of drugs, biologicals, and contrast agents for diagnostic imaging.
- Successfully prepared and obtained approval for twelve New Drug Applications (NDAs) for treatment of hypertension, glaucoma, cardiovascular, pulmonary and infectious diseases, prophylactic vaccines, and contrast agents for diagnostic use.
- Carried out Due Diligence investigation for a venture capitalist interested in acquiring drug product under development by a small pharmaceutical company. Assessed the adequacy of the pre-clinical and clinical study results and the clinical development plan in terms of whether they provided evidence for efficacy and safety required by regulatory agencies.
- For a premier Biotechnology company with a very promising compound in development, evaluated completeness of the company’s Drug Development Process (DDP), both in scope and depth, in conjunction with the management and technical environment. Identified significant gaps. Made concrete recommendations for closing identified gaps and laid out methods of implementation.
- For the same company, preparation of Common Technical Document (CTD) as the primary evaluation tool, investigated how much progress the company had made in filling gaps identified earlier. Scope of the analysis covered the development and implementation of required drug development infrastructure, technology platforms, applications, tools, and processes in Clinical Research, Non-Clinical Research, Pharmaceutical Sciences, Production, and in Project Management departments.
- Directed multinational clinical development project to a successful completion by managing statistical, data management, and programming work of the client company and its numerous European and American Clinical Research Organization (CRO) development partners.
- Led team of international scientists of Fortune 20 information technology company in assessing commercial potential of their new technologies – including product knowledge bases, data marts, and warehouse technologies – and consulting services for use in the drug development process.
- Developed and implemented a uniform Biometrics Process that made use of “best industry practices” in a decentralized multinational CRO with five independent Business Centers.
- Evaluated operations and infrastructure of two key departments of a mid-sized pharmaceutical company; realigned the organizational structure, standardized clinical data processing and programming, and defined proper technology and staff skill mix for efficient operation.

Professional Experience
Statistical and Process Consulting
May 1992-Present
Provides innovative and sound approaches to enable global development, registration, and licensing of biopharmaceuticals, biologicals, diagnostic tests, and contrast agents.
Services offered include:

- Development of statistical design, analysis, presentation strategy, and methodologies. Implementation of strategy for a specific product development and registration.
- Integration of scientific evidences for efficacy and safety summaries. Review and evaluation of clinical dossiers, pre-clinical safety and CMC sections, integrated summaries, clinical trial reports, protocols, and methodologies.
- Due Diligence for licensing and investment decisions by companies and venture capitals.
  - Evaluation and validation of pre-clinical and clinical study results and methodologies reported in prospectus portfolios.
  - Assessment of the quality of submitted work and its acceptability by regulatory agencies to establish safety and efficacy.
- Project and resource management for operational staging of global clinical development projects.
- Management and organizational consulting for drug development process.
- Development of knowledge bases for therapeutic areas and for products to leverage knowledge accumulated during the development phase to facilitate smooth transitioning of product from development team to marketing team for more effective market introductions.

Schering-Plough Research Institute, Kenilworth, NJ
Statistics and Statistical Programming (02/2003-06/2005)
Director Non-Clinical Statistics

Directed activities of groups of statisticians that provided statistical design and analysis services to:
Discovery Research Division
Chemical and Pharmaceutical Sciences Division
Safety Sciences Division of the Research Institute
Prepared and reviewed statistical components of Chemistry-Manufacturing-Control (CMC) and Safety Sections of regulatory submissions. In discussions with regulatory agencies, provided defense of statistical methodology and conclusions.

Boehringer-Ingelheim Pharmaceuticals, Inc., Ridgefield, CT
Scientific Affairs Division (12/1990-05/1992)
Group Director with Worldwide Responsibility

For worldwide company, as a member of the International Medical Committee, evaluated the medical and operational staging of global development projects. Managed the development and implementation of statistical design, analysis, and data management of global projects. Led the design and implementation of processes to produce submissions dossiers from standard components.

For U.S. operations unit, directed statistical design and analysis, data management, document processing, and archiving services for the R&D and Medical Divisions. Directed development and implementation of systems and office automation to enable effective functioning of Medical Affairs Division. Staff of 77 and budget of M$6.5.

Boehringer-Ingelheim Pharmaceuticals, Inc., Ridgefield, CT
Medical Affairs Division (05/1988-12/1990)
Director, Medical Data and Administrative Services

Directed the activities of seven departments in two divisions: Statistical Design and Analysis, Clinical Trial Information, Clinical Trial Support, Medical Systems, Medical Planning and Budgets, Project Management, and Medical Grants and Contracts. Directed development and implementation of systems and procedures to improve planning and control of clinical drug development project activities and costs. Set information technology direction. Prepared and monitored the Medical Affairs Division budget and expenses. Staff of 83 and budget of M$30.

Boehringer-Ingelheim Pharmaceuticals, Inc., Ridgefield, CT
Medical Affairs Division (07/1984-05/1988)
Director, Medical Data Services
Established effective Statistical Design and Analysis, Data Management, Document Management, and Medical Systems Departments. Developed and implemented Biometric Process to enable global clinical development of our drugs ahead of competitors. Led international task force to develop worldwide clinical data management procedures and standards. Achieved and maintained a zero backlog in processing and analysis of clinical trial data through streamlining procedures, upgrading professional staff, and implementation of proper information technology. Directed four departments with staff of 65 and budget of M$4.5.

American Cyanamid Company, Pearl River, NY
Medical Research Division (04/1982-07/1984)
Group Leader, Non-Clinical Statistics

Managed group of Statisticians that provided statistical design and analysis services to:
Biological Discovery, Analytical Services, Pharmacodynamics and Pharmacokinetics, Process Development, Formulation, Stability Testing, and Toxicology. Developed systems for Analysis of Toxicology Data and Quality Control of vaccine production.

Boehringer-Ingelheim Pharmaceuticals, Inc., Ridgefield, CT
Medical Affairs Division (02/1978-03/1982)
Manager, Statistical Evaluation

Established the Statistical Design and Analysis Department. Served as company expert for defense of statistical methodology and conclusions before regulatory agencies. Linked the activities of Clinical Research with R&D.

American Cyanamid Company, Pearl River, NY
Medical Research Division (01/1975-02/1978)
Research Statistician

Designed and analyzed clinical trials in anti-infectives, ocular hypertension, vaccines, and inhaled steroids. Designed and implemented biological screens in drug discovery to identify potential drugs in targeted therapeutic areas. From these screens, one anticancer compound, Mitoxantrone, was identified and successfully developed and marketed for treatment of leukemia. 5

Education
Ph.D. 1974, Texas A&M University, College Station, Texas

   Major: Economics

B.A. 1964, Ankara University, SBF, Ankara, Turkey.
   Major: Economics and Finance

Professional Societies
American Association for the Advancement of Science
American Statistical Association
American Society for Quality
Institute for Mathematical Statistics
Biometrics Society
Pharmaceutical Manufacturers Association, Biostatistics Steering Committee, 1986-1989
Editorial Board Member, Biopharmaceutical Report, 1999-2001

Honors and Awards
• Appointed to the Alumni Advisory Board, Department of Statistics, Texas A&M University
• Inducted into the Academy of Distinguished Former Students of the College of Science, Texas A&M University
• Received H.O. Hartley Award for Distinguished Service to the Discipline of Statistics, Texas A&M, University Department of Statistics
**Publications and Technical Reports**


**Presentations**

   Washington, D. C., May 9-10, 1988
   Washington, D. C., March 6-7, 1989
7. “Have You Developed the Skills Necessary for Your Success in the Pharmaceutical Industry?”  
   Biopharmaceuticals Section Roundtable Discussion Program, Joint Statistical Meetings, Baltimore, Maryland, August 8-12, 1999.
8. "What Do Statistical Consultants Really Do?" Invited presentation to graduate students of Department of Statistics at Texas A&M University, College Station, Texas, October 14,2002.
OBJECTIVE
Executive-level position in consumer-based e-commerce, mobile, or social media, with a focus on business intelligence and analytics.

QUALIFICATION
Quantitatively-focused senior professional with a doctorate in Statistics and a strong background in business intelligence, strategy, and analytics across several industries including E-commerce, Search, Online Marketing, and Biotechnology.

Professional strengths include
• Reputation for strong analytics, objective business sense, and making data actionable.
• Talent for clear and concise explanations of complex quantitative concepts.
• Versatile background and skill set allowing for efficient collaboration across a broad range of corporate functional areas.
• Passion for delivering accurate data and reporting to drive sound business decisions.
• Strongly held belief in being customer-focused for long term company success.

EXPERIENCE

Facebook
Menlo Park, California
2014 – Present
MARKETING ANALYTICS
Build and lead the consumer marketing analytics practice

Leap Commerce
San Francisco, California
2013 – 2014
VICE PRESIDENT – PRODUCT STRATEGY & ANALYTICS
Lead the Product, Marketing, and Analytics efforts of an early stage technology startup providing a SaaS social recommendation and discovery solution.
• Develop a holistic point-of-view around the use of earned media to provide a marketing-led e-commerce experience.
• Create both a strategic roadmap and individual product feature requirements around a set of enterprise solutions that bring the power of word-of-mouth advertising down the purchase funnel from awareness and consideration to engagement and sales.
• Spearhead marketing efforts to support venture fundraising, partnerships, and business development collateral.
• Oversee the algorithmic development of Leap’s recommendation engine.

Mode Media
Brisbane, California
2011-2013
VICE PRESIDENT, ANALYTICS
Own the Analytics function for the largest consumer lifestyle publishing network in the US and a Top 10 global web property.
• Developed and managed a centralized Analytics organization across Mode Media post Ning acquisition.
• Areas of analytics ownership include Advertising (Targeting, Measurement), Marketing (Channel, MarCom, Product, Market Research), Product (Ad Platform, Subscription Platform, O&O, Consumer & Publisher Products), and Business Intelligence (KPI Development & Reporting, Business Insights).
• Nurtured a quantitatively-driven business culture, so that decisions affecting strategy, plans, programs, and customer experience were based on relevant data and insights.
• Responsible for responding to brand advertising targeting and measurement needs, and for working closely with strategic data and research vendors to maintain and grow productive partnerships.
• Business owner of reporting, analytics, and KPIS that demonstrate how content and social media matter to brands, consumers, publishers, and network creators; and how the interests of all constituents should be aligned for long-term success.
• Assumed thought leadership role, both internally and within professional bodies such as the IAB, in defining Social Data and articulating its use within an advertising framework.
• Continued to manage all facets of product, marketing, and business analytics for Ning.

Ning
Palo Alto, California
2010-2011
DIRECTOR, ANALYTICS
Oversaw the Data Engineering and Business Intelligence teams for the world’s largest social website platform, with over 100,000 subscribed networks and 60 million monthly visitors. Acquired by Mode Media in 2011.

- Mentored, grew and led the Analytics team consisting of Data Engineers and Analysts.
- Worked closely with technical teams to ensure products were developed and launched with properly engineered data, relevant tracking, performance metrics, and reporting in place.
- Guided the evolution of the company by analyzing customer behavior including website performance, network trends, social engagement, marketing, and merchandising activity.
- Partnered with Marketing to establish sound measurement practices including channel attribution, program measurement and marketing optimization.
- Drove the development of a simplified and unified data framework that served as the backbone for the company’s executive and operational dashboards.

**Threads/Swaylo**
San Francisco, California 2010

HEAD OF ANALYTICS (LONG-TERM CONTRACT)

Developed the analytics framework of an early-stage influence marketing start-up that used viral techniques to achieve a customer base of over six million people. Acquired by Facebook in 2012.

- Oversaw business intelligence for the world’s first integrated communications client – combining email, Twitter, social networks, and 40 other web services into a unified communications experience.
- Developed analytic framework to assess viral marketing performance and engagement of social network applications built on “gamification” techniques.
- Helped drive development of highly viral Facebook applications, twice reaching AppData’s Top 20 and leading to Swaylo’s current customer base.

**Shopping.com**
Brisbane, California 2005 – 2010

GLOBAL DIRECTOR, BUSINESS INTELLIGENCE

Head of Business Intelligence and Analytics for a multinational subsidiary of eBay, Inc., with a portfolio of websites attracting 25 million monthly visitors and accounting for $1.5 billion in merchant sales annually.

- Directed company vision and strategy for business and product analytics.
- Translated business needs into actionable and relevant data requirements. Managed business intelligence as an enterprise product including tracking, collection, reporting, and analysis.
- Developed and oversaw testing of new site features, and made recommendations for product optimization. Investigated website performance throughout product lifecycle.
- Maintained systemic view of site analytics, monitoring changes in operational behavior due to new product initiatives, SEO/SEM marketing, distribution, and merchant deals.
- Led pricing strategy to align financial interests of merchants and partners, optimize merchant ROI, increase network quality, and enhance user experience. Major projects included regular rate-card evaluations, seasonal pricing adjustments, the development of a dynamic CPC-based pricing methodology, and a refined revenue attribution process for a CPA business model.
- Conceptualized data structure and reporting required to reinvigorate community-based shopping program that had been growing at 50 thousand members monthly.

**LookSmart, Ltd.**
San Francisco, California 2002 – 2005

MANAGER, SEARCH ANALYSIS

Formalized and executed a relevance assessment program across both the search engine and ad platforms for a syndicated search network serving a half billion ad impressions daily.

- Managed analytics team in support of product strategies and marketing functions. Identified opportunities to improve relevance and revenue through algorithmic development and alternative sales and business development strategies.
- Devised novel approaches for evaluating search engine performance, including generalized between-list distance metrics and distribution-free relevance measures. Informed testing methodology for such companies as MSN and Inktomi.
- Drove the development of relevance scoring tools and optimized overall testing process.
- Consolidated data analysis onto one platform and generalized code to allow for scenario-based modeling. Reduced testing timeframe and cost by 50%.
- Developed standards for relevance data storage, use, and analysis across R&D, Engineering, and Architecture groups. Formulated automated relevance assessment methodology, allowing for regular, efficient, and inexpensive product release feedback.
PRINCIPAL CONSULTANT, CLIENT ENGAGEMENT
Customer-facing role for the leading Software-as-a-Service web analytics and marketing optimization platform of its time. Founded consulting practice that is still part of the core service offerings.

- Templatized and delivered consulting engagements designed to optimize client websites and online marketing efforts. Oversaw the development and interpretation of advanced statistical models including such techniques as discriminant analysis, factor analysis, cluster analysis, logistic and other nonlinear regression, CHAID, and CART.
- Developed training material for both internal and external consumption. Proposed advanced product offerings based on industry needs and client feedback.
- Managed client relationship with numerous multi-channel customers such as Walmart, Columbia House, and GMAC. Performed consulting engagements to guide online marketing efforts.
- Served as solutions engineer during customer sales cycle. Responsible for mapping business objectives of potential clients to appropriate data collection and reporting.

Shockwave.com San Francisco, California 2000
MARKET RESEARCH MANAGER / DATABASE MARKETING ANALYST
Managed consumer insights and marketing analytics for one of the Internet’s earliest video and gaming portals, with over 100 million registered members worldwide.

- Functioned as statistical consultant and consumer behavior analyst while working with Content Production, Programming, Site Development, Engineering, Marketing, Sales, and Business Development.
- Mined member database to research online behavior and attrition patterns. Implemented process for collection and analysis of member demographics. Developed email marketing segmentation schemes for a program with a monthly budget of $200,000.
- Managed primary research, including usability testing, focus groups, individual user behavior studies. Implemented on-going customer satisfaction and loyalty studies. Maintained relations with secondary research and external traffic vendors.

Genentech, Inc South San Francisco, California 1998 – 2000
BIOSTATISTICIAN
Statistician supporting all stages of the drug development life cycle for the world’s largest and most successful biotechnology company.

- Supported nonclinical function through statistical consultation, experimental design, data analysis and interpretation, and in-house training. Served as primary statistical point-of-contact for over 500 scientists and engineers in Research, Process Science, and Pharmacokinetics.
- Assumed biostatistical responsibilities in clinical drug development. Designed study protocols and analysis plans, and monitored trials for statistical validity and compliance with federal regulations.
- Developed and taught company-wide statistics courses, and created a statistical resource website.

National Cancer Institute Bethesda, Maryland Summer 1997
STATISTICIAN
- Researched the estimation of disease penetrance, in particular testing a method for the determination of intra-family phenotypic independence conditional on genotype.

The RAND Corporation Santa Monica, California Summer 1996
STATISTICAL CONSULTANT

OTHER EXPERIENCE
The Deep End, 501(c)(3) San Francisco, California 2007-Present
PRESIDENT
- President and lead financial officer of San Francisco Bay Area non-profit that produces events showcasing local amateur electronic musicians and alternative artists, creates the annual large-scale Distrikt project at Burning Man, and provides financial support to other charitable organizations and artists sharing a similar vision.

EDUCATION
Texas A&M University College Station, Texas
- Doctor of Philosophy, Statistics 1998
Research Topic: Nonparametric inference, including mean functional estimation with missing data and confidence interval construction for local estimating equations

- Bachelor of Science, Summa Cum Laude, Applied Mathematical Sciences

PUBLICATIONS


EDUCATION

Degree Granting Education:
Texas A&M University, College Station, TX, 1988, MS, Statistics
Texas A&M University, College Station, TX, 1986, BS, Applied Mathematical Sciences

EXPERIENCE/SERVICE

Academic Appointments:
- Director, Quantitative Research, Department of Biostatistics, Division of Quantitative Sciences, The University of Texas MD Anderson Cancer Center, September 2008 – Present
- Associate Director, Quantitative Research, Department of Biostatistics, Division of Quantitative Sciences, The University of Texas MD Anderson Cancer Center, March 2006 to August 2008
- Principal Statistical Analyst, Department of Biostatistics and Applied Mathematics, The University of Texas MD Anderson Cancer Center, April 2004 to February 2006
- Senior Statistical Analyst, Department of Biostatistics, The University of Texas MD Anderson Cancer Center, May 2001 to March 2004.
- Senior Research Assistant and Assistant Project Manager, Coordinating Center for Clinical Trials, School of Public Health, University of Texas Health Science Center, Houston, Texas, May 1998 to April 1990.
- Statistical Intern, Department of Biostatistics, Scott & White Memorial Hospital, Temple, Texas, August 1987 to May 1988.

Institutional Committee Activities:
- The University of Texas MD Anderson Cancer Center, Institutional Review Board, Associate Member, April 2012 – present
- The University of Texas MD Anderson Cancer Center, Clinical Research Committee, September 2005 – present
- The University of Texas MD Anderson Cancer Center, Quality Improvement Oversight Committee, October 2007 – August 2010

Other Appointments/Responsibilities:

Consultancies:

RESEARCH

Grants and Contracts:
Funded Grants:
- Statistician, 20% salary support, NIH/NCI, 2 P30 CA016672 38: Cancer Center Support Grant – Biostatistics Resource Group (PI: DePinho), 7/01/2013 - 6/30/2018, $635,606

PUBLICATIONS:

Articles in Peer-Reviewed Journals:


Abstracts:


15. Andtbacka RH, Gershenwald JE, Prieto VG, Johnson M, Diwan H, Lee JE, Mansfield PF, Schacherer CW, Ross MI. Microscopic tumor burden in sentinel lymph nodes (SLNs) best predicts nonsentinel lymph node (NSLN) involvement in


Book Chapters:

Letters to the Editor:

Other - Posters:

2. Bell M, Stricklin MD. A Macro to Facilitate the Visualization of Individual Patient Efficacy and Safety During an Investigational (Phase III) Clinical Trial. [Poster presented at the SAS® Users Group International annual meeting in Dallas, TX, April, 1994].

3. Stricklin, MD. An Ophthalmic Clinical Trial with a Group Sequential Design and Multiple Comparisons. [Poster presented at the Society for Clinical Trials annual meeting in Houston, TX, May, 1994].


15. Ekmekcioglu S, Johnson MM, Gershwenwald JE, Prieto VG, Grimm E.A. iNOS Expression in Tumor Cells and Tumor Associated Macrophages in Melanoma. [Poster presented at Chemical and Biological Aspects of Inflammation and Cancer, October 14-17, 2008.


Melanoma (MM) Between Australia (OZ) and the United States (US): The PHAMOUS STUDY. Poster presented at Society for Melanoma Research, 7th International Melanoma Congress, Sydney, Australia, November 2010.


TEACHING:

Training Programs:
- Statistics in Clinical Trials. Presented through the MD Anderson Office of Research Education and Regulatory Management. April 2009

PROFESSIONAL MEMBERSHIP/ACTIVITIES:

Local/State:
- Houston Area Chapter of the American Statistical Association, Member
- National and International:
  - American Statistical Association, Member
  - International Biometric Society, Member
MICHAEL H. KUTNER  
Rollins Professor  
Department of Biostatistics and Bioinformatics, Emory University Rollins School of Public Health  
1518 Clifton Road, NE Atlanta, Georgia 30322  
Voice: 404-712-9708  Email: mkutner@emory.edu

EDUCATION
Ph.D. 1971 Texas A & M University, College Station, Texas, in statistics.  
Doctoral research in the area of variance component estimation.  
M.S. 1962 Virginia Polytechnic Institute and State University, Blacksburg, Virginia, in statistics.  

PROFESSIONAL EMPLOYMENT
• 2009 - Present  Rollins Professor, Department of Biostatistics and Bioinformatics, Emory University, Rollins School of Public Health, Atlanta, Georgia.  
• 2004 - 2009  Rollins Professor and Chair, Department of Biostatistics and Bioinformatics, Emory University, Rollins School of Public Health, Atlanta, Georgia.  
• 2002 - 2003  Interim Chair, Department of Biostatistics, Emory University, Rollins School of Public Health, Atlanta, Georgia.  
• 2001 - Present  Director, Biostatistics Consulting Center, Department of Biostatistics, Emory University, Rollins School of Public Health, Atlanta, Georgia.  
• 2000 - 2003  Research Professor, Department of Biostatistics, Emory University, Rollins School of Public Health, Atlanta, Georgia.  
• 1994 - 1999  Chairman, Department of Biostatistics and Epidemiology, The Cleveland Clinic Foundation, Cleveland, Ohio.  
• 1991 - 1993  Professor, Division of Biostatistics and Associate Dean for Academic Affairs, School of Public Health, Emory University, Atlanta, Georgia.  
• 1990 - 1991  Director, Division of Biostatistics and Associate Dean for Academic Affairs, School of Public Health, Emory University, Atlanta, Georgia.  
• 1988 - 1990  Professor and Director, Division of Biostatistics, Department of Epidemiology and Biostatistics, Emory University, Atlanta, Georgia.  
• 1986 - 1988  Professor and Acting Chairman, Department of Statistics and Biometry, Emory University, Atlanta, Georgia.  
• 1981 - 1985  Professor of Statistics and Biometry, Emory University, Atlanta, Georgia.  
• 1975 - 1980  Associate Professor of Statistics and Biometry, Emory University, Atlanta, Georgia.  
• 1971 - 1975  Assistant Professor of Statistics and Biometry, Emory University, Atlanta, Georgia.  
• 1970 - 1971  Assistant Professor Statistics, Institute of Statistics, Texas A & M University; teaching graduate statistics and research connected with dissertation.  
• 1962 - 1967  Assistant Professor of Mathematics, College of William & Mary, Williamsburg, Virginia; teaching senior-graduate statistics and numerical analysis, differential equations, calculus.  
• 1964 - 1965  Dow-Badishe Chemical Company, Williamsburg, Virginia; consulting and teaching experimental design and analysis.  

PROFESSIONAL AWARDS/HONORS
• 2012 – Cited as one of Texas A&M’s most distinguished alumni in book entitled, Strength in Numbers: The Rising of Academic Statistics Departments in the U.S., Springer, Edited by Alan Agresti & Xiao-Li Meng  
• October 2012 – Mike Kutner Junior Faculty Poster Session named in my honor, Southern Regional Council on Statistics, Summer Research Conference  
• August 2011 – Recipient of the Wilfred J. Dixon Award for Excellence in Statistical Consulting, American Statistical Association,  
• March 2011 – Recipient of the Charles R. Hatcher, Jr., M.D., Award for Excellence in Public Health, Woodruff Health Sciences Center  
• November 2010 – Invited delegate of the People to People “Statistical Science Delegation” that visited China under the leadership of the President and Executive Director of the American Statistical Association. Visited Beijing (Renmin University and National Bureau of Statistics), Xi’an (Xi’an University of Finance and Economics and Northwest University) and Shanghai (East China Normal University and Fudan University).
The purpose of the trip was to explore possible faculty and student exchange programs between our two countries. The Biostatistics Department has recruited doctoral students from both Renmin and Fudan University.

- November 2009 – Inducted as member of ASPH/Pfizer Public Health Academy of Distinguished Teachers
- 2009 – Recipient of Mu Sigma Rho National Statistical Honor Society Statistical Education Award for lifetime devotion to the discipline of teaching statistics
- May 2008 – Recipient of the Thomas F. Sellers, Jr. Award for exemplifying the ideals of public health and serving as a role model and mentor to his colleagues
- 2008 – Appointed to External Advisory Committee by the Department of Statistics, Texas A&M University
- 2008-2009 – Inducted as President of the Southern Regional Council on Statistics (SRCOS)
- 2008-2013 – Appointed Member of the Clinical Research Advisory Committee of the Shriners’ Hospitals
- August 2006 – Recipient of Georgia Chapter, ASA, distinguished service award
- March 2004 – Named Endowed Rollins Professor and Chair of Biostatistics
- September 2002 – Recipient of the 2002 Southern Region Council on Statistics (SRCOS) Paul Minton Award for distinguished service to the statistical profession
- September 1999 – Elected member of International Statistical Institute
- May 1997 – Inducted into inaugural class of the “Academy of Distinguished Graduates,” College of Science, Texas A&M University
- 1990-1991 – Inaugural President, NIH/GCRC Statisticians Group
- 1984 – Recipient of H. O. Hartley Award, Texas A&M University
- 1969-1970 – NIH Trainee Fellowship, Texas A&M University
- 1969 – Graduate Research and Teaching Assistant, Texas A&M University.

EMORY PHILANTHROPIC GIFTS
- Donated 1994 Atlanta Olympic Street banner to the Dobbs University Center
- Established the Michael H. Kutner Alumnus Award given annually to recognize a former department graduate student for Distinguished Service to the Field
- Established the Michael H. Kutner Outstanding Graduate Student Award given annually to a doctoral student in the Department of Biostatistics and Bioinformatics
- Donated to the Department of Biostatistics and Bioinformatics paintings, artwork and potted plants for the entire 3rd floor and a portion of the 2nd floor
- Donated all of the wine for the Department’s 50th Anniversary Celebration on October 17, 2014
- Donated funds to support the development of an Emory Faculty Club

BOOKS

**BOOK CHAPTERS, PROCEEDINGS AND TECHNICAL REPORTS**

**Book Chapters:**

**Proceedings:**

**Technical Reports:**

**DISSERTATIONS DIRECTED**
- 1979, Gamil H. Absood, “Distributions of Functions of Gaussian Random Variables with Applications to Structural Regression Models.”
- 1974, Brent Blumenstein, “Maximum Likelihood Estimation of Linear Path Regression Models.”
- 1972, Edward L. Frome, “Nonlinear Regression and Spectral Estimation in Biomedical Data Analysis.”
- 1972, Guy C. Davis, Jr., “The Use of Mathematical Models in the Analysis of Indicator-Dilution Curves.”

**MASTERS THESIS DIRECTED**

**COURSES TAUGHT AT EMORY**
- Linear Models (Graybill); Design and Analysis of Experiments (Winer); Multivariate Methods (Morrison); Introduction to Theoretical Statistics I & II (Mood, Graybill & Boes); Introduction to Probability (Parzen); Analysis of Variance and Regression (Neter, Wasserman & Kutner); Statistical Methods (Snedecor and Cochran); Biostatistics for Medical Students (Colton); Logistic Regression and Survival Analysis (Collett); Experimental Design and Analysis for the Biological Sciences (Altman); Introduction to Biostatistics (Freedman, et al); Biostatistical Consulting (Derr); Clinical Trials (Friedman, Furberg & DeMets).
- 2011: Developed & taught BIOS 560R: Basic Fundamentals for Conducting a Clinical Trial, 12 students; Course Evaluation: 4.3/5 for Course: 4.4/5 for the Instructor

**COMMITTEE MEMBERSHIPS/ACTIVITIES**
- 2012, Appointed as Co-Chair for Planning, 50th Anniversary Celebration, Texas A&M, Department of Statistics
- 2011, Member, Selection Committee for Mu Sigma Rho Excellence in Teaching Award

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Emory University

2013 - 2014  Chair Planning Committee in the department to celebrate the 50th anniversary conference

2011  Chair, Search Committee, WCI Biostatistics Shared Resource

2011- 2015  Member and Chair, Emory Faculty Life Course Committee

2009  Charter Committee Member, Center for Health in Aging

2006 - 2009  Executive Committee, Computational & Life Sciences Initiative

2006 – 2009  Chair, Brogan Lecture Committee

2006 – 2009  Director, Biostatistics, Epidemiology and Research Design Program, ACTSI

2006 – 2009  Member, ACTSI Executive Committee

2006 – 2007  Chair, Search Committee, EOH Chair

2004 – 2009  Member, WHSC Research Advisory Committee

2004  Organized, planned and raised funds for the dinner celebration of the retirement for Dr. Donna Brogan, October 22, 2004.

2004  Organized, planned and raised funds for the 40th Anniversary celebration of the Department of Biostatistics, October 22, 2004. Luncheon speakers: President Jim Wagner, Dean Jim Curran and Dr. Fadlo Khuri.

2004  Established the Donna J. Brogan Lecture series in the Department of Biostatistics.

2003 – 2005  Chair, Search Committee, Department of Biostatistics Faculty Search

2002 – 2009  Member, Chairs Council, Rollins School of Public Health

2002 – 2004  Chair, Strategic Planning Committee for Biostatistics Consulting Center Initiative

2002 – 2008  Clinical Trials Office Advisory Committee

2000 – 2006  Center for Health in Aging Advisory Board

2000 – 2001  Search Committee, Associate Faculty Recruitment

1992 – 1993  Chair, Curriculum Committee for MPH Program

1992 – 1993  Chair, Appointment, Promotions and Tenure Committee, SPH

1991 – 1993  University Accreditation Committee, SPH Representative

1990 – 1993  Member, Steering Committee, Lovastatin Restenosis Trial

1989 – 1992  Member, Academic Computing Advisory Committee

1991 – 1993  Chairman, Woodruff Fellowship Committee, School of Public Health

1990 – 1993  Member, Executive Committee, SPH

1990 – 1992  Chairman, Admissions Committee, Division of Biostatistics

1990 – 1992  Member, Council of Division Directors, SPH

1974 – 1993  Ex-officio Member, Advisory Committee, Clinical Research Center

1974 – 1993  Chief Biostatistician, Emory General Clinical Research Center (GCRC)

1989 – 1990  NIH/GCRC Statisticians Group Development Team Member

1986 – 1990  Chairman, Medical School Workstations Committee

1983 – 1986  Member, Ad hoc Promotions Committee

1980 – 1981  Member, Task Force: Curriculum Study and Revision

1976 - 1979/ 1981 – 1986  Elected Member Executive Committee of Graduate School

1972 – 1976  Member Medical School Study Group

1971 – 1983  Doctoral Written Exam Committee, Chair

The Cleveland Clinic Foundation

Department of Biostatistics and Epidemiology

1994 – 1999  Management Advisory Committee, Chair

1994 – 1999  Space Committee, Chair

1994 – 1999  Member, Operations Group

1994 – 1995  Strategic Planning Task Force, Chair

1994 – 1999  Search Committee, Chair

1994 – 1995  Member, Committee to Review Chargeback System of Department

Research Institute

1994 – 1996  Member, Research Division Committee

1994 – 1996  Case Western Reserve University/Cleveland Clinic Foundation Working Group Member

1994 – 1999  Institutional Review Board consultant


23. Rudman D, Kutner MH, Goldsmith MA and Blackston RD. “Predicting the Response of Growth Hormone-Deficient Children to Long Term Treatment with Human Growth Hormone.” *Journal of Clinical


46. Rudman D, Kutner MH, Rogers CM, Lubin MF, Fleming GA and Bain RP. “Impaired Growth


CITATIONS AND ACKNOWLEDGMENTS

• Tabulation of Hermite Polynomials (Table 2) in Pearson, ES and Hartley HO, Biometrika Tables for Statisticians, Volume II, 1972.


LETTERS TO EDITOR


**PRESENTATIONS, SEMINARS AND SHORT COURSES**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 2015</td>
<td>Invited panelist at the ASA Joint Statistical Meeting in Seattle, to discuss how to be an effective collaborating statistician</td>
</tr>
<tr>
<td>Oct 30, 2014</td>
<td>Invited seminar speaker at the University of North Carolina, Wilmington, NC on the analysis of fixed effects models with missing data in some cells</td>
</tr>
<tr>
<td>April 30, 2014</td>
<td>Invited panelist to discuss teaching of introductory statistics courses to non-statistics majors at Georgia ASA Chapter meeting</td>
</tr>
<tr>
<td>June 2, 2014</td>
<td>Invited speaker at the 50th Anniversary at the SRCOS SRC in Galveston, TX, June 1-4, 2014 meeting to discuss the role that SRCOS has played in developing academic programs in statistics/biostatistics in the South.</td>
</tr>
<tr>
<td>Aug 2, 2014</td>
<td>Invited speaker at the ASA Joint Statistical Meetings in Boston, MA, August 2 - 7, 2014 to discuss the growth of statistics academic programs in the South and its association with ASA.</td>
</tr>
<tr>
<td>July 2010-13</td>
<td>Two 2-hour lectures each year to Summer Institute for Training in Biostatistics (SIBS) program attendees on research projects/designs</td>
</tr>
<tr>
<td>August 3, 2009</td>
<td>Invited panel session JSM, Title: “Directing a Biostatistics Core in Biomedical Research.”</td>
</tr>
<tr>
<td>Jan 16-17, 2009</td>
<td>Short Course: Design and Analysis of Clinical Studies, Shriner’s Hospitals, Clearwater Beach, FL.</td>
</tr>
<tr>
<td>June 20, 2007</td>
<td>“How to Design a Research Study”, Summer Interns, Division of Geriatrics, Atlanta, GA</td>
</tr>
<tr>
<td>April 24, 2007</td>
<td>“Analysis of Fixed Effects ANOVA Models with Missing Cells”, Medical College of GA, Augusta, GA</td>
</tr>
<tr>
<td>April 20, 2007</td>
<td>“Analysis of Fixed Effects ANOVA Models with Missing Cells”, The Hocking Lecture, Texas A&amp;M</td>
</tr>
<tr>
<td>June 20, 2006</td>
<td>“How to Design a Research Study”, Summer Interns, Division of Geriatrics, Atlanta, GA</td>
</tr>
<tr>
<td>April 21, 2006</td>
<td>“Analysis of Fixed Effects ANOVA Models with Missing Cells”, Department of Mathematical Sciences, Bowling Green University, Bowling Green, OH</td>
</tr>
<tr>
<td>Nov 30, 2005</td>
<td>“Past, Present and Future of Biostatistics”, Georgia Chapter, ASA, Atlanta, GA</td>
</tr>
<tr>
<td>Oct 20, 2005</td>
<td>“Statistical Collaboration and Consulting Within the Health Sciences”, Division of Pulmonary Medicine, Emory University, Atlanta, GA</td>
</tr>
<tr>
<td>Oct 6, 2005</td>
<td>“Intense Tai Chi Exercise Training and Fall Occurrences in Older, Transitionally Frail Adults: Trial Designs and Outcomes” University of Texas Southwestern Medical School, Dallas, TX</td>
</tr>
<tr>
<td>Aug 29, 2004</td>
<td>Invited Speaker: “Outliers and Their Effects on the Scientific Literature”, Winship Cancer Institute, Atlanta, GA</td>
</tr>
<tr>
<td>Aug 11, 2004</td>
<td>Invited Speaker: “Statistical Consulting within the Medical Sciences”, Joint Statistical Meeting, Toronto, Canada</td>
</tr>
<tr>
<td>Jun 16, 2004, July 1, 2003</td>
<td>“Reading the Medical Literature”, AFAR Summer Research Students, Center for Health in Aging”, Wesley Woods Health Center, Atlanta, GA</td>
</tr>
<tr>
<td>Nov 19, 2002</td>
<td>“Biostatistical Considerations in Rehabilitation Research”, Rehabilitation Residents and Fellows, Rehabilitation Medicine Department, Emory University</td>
</tr>
<tr>
<td>Oct 30, 2002</td>
<td>“Biostatistical Collaboration: the Good, the Bad and the Ugly”, Center for Research on Symptoms, Symptom Interactions, and Health Outcomes, Emory University Nell Hodgson Woodruff School of Nursing</td>
</tr>
<tr>
<td>Oct 16, 2002</td>
<td>“A Unified Regression Approach for Fixed Effects ANOVA Models with Missing Cells”, Department of Biostatistics, Emory University</td>
</tr>
<tr>
<td>Sept 17, 2002</td>
<td>“Biostatistical Support”, Clinical Trials Office Symposium</td>
</tr>
<tr>
<td>April 2, 2002</td>
<td>Invited Speaker: “Outliers”, Southeastern Family Medicine and Primary Care Research Conference, Savannah, Georgia (Mercer School of Medicine).</td>
</tr>
<tr>
<td>Dec 12, 2001</td>
<td>Invited Seminar: “Outliers and Their Effects.” VA Rehab R &amp; D, Atlanta, Georgia.</td>
</tr>
<tr>
<td>March 28, 2001</td>
<td>Invited Seminar: “Observational versus Experimental Studies: That is the Question.” VA Rehab R &amp; D, Atlanta, Georgia.</td>
</tr>
</tbody>
</table>
| March 8, 2000   | Invited Seminar: “Design and Statistical Aspects of the African American Study of Kidney Disease and
Nov 16, 1995 Invited Speaker: “Biostatistics at the Cleveland Clinic Foundation.” Twelfth Annual Ohio Statistics Conference, Columbus, Ohio.


Jun 26-28, 1995 Short Course: “Regression Modeling for Epidemiologic Research.” Centers for Disease Control and Prevention, Atlanta, Georgia. (with Ray Greenberg.)


May 4, 1995 Invited Speaker: “Biostatistics at the Cleveland Clinic Foundation. Statistics Department, Texas A&M University, College Station, Texas.

Mar 1-3, 1995 Short Course: “Regression Modeling for Epidemiologic Research.” Centers for Disease Control and Prevention, Atlanta, Georgia. (with Ray Greenberg.)

Dec 12, 1994 Hosted Quantitative Literacy Program. Presented talk: “An Overview of Biostatistics at The Cleveland Clinic.” The Cleveland Clinic Foundation, Cleveland, Ohio.


June 1, 1994 Invited Speaker: “Some Interesting Regression Modeling Examples.” Cleveland Chapter, American Statistical Association, Cleveland, Ohio.

April 26, 1994 Invited Speaker: “Estimating and Testing in ANOVA Models with Some Empty Cells (Eisenhart Model I).” Ohio State University, Department of Statistics, Columbus, Ohio


March 9-11, 1994 Short Course: “Regression Modeling for Epidemiologic Research.” Centers for Disease Control and Prevention, Atlanta, Georgia. (with Ray Greenberg.)

January 19, 1994 Presented Departmental Overview to Northeast Ohio Quantitative Literacy Program, The Cleveland Clinic Foundation, Cleveland, Ohio.


Oct 5-6, 1990 Invited Speaker: “Statistical Applications in the Medical and Health Services Field.” John Neter Recognition Weekend. Athens, Georgia.


Mar 1990-June 1991 Series of monthly biostatistics seminars to fellows and faculty in Division of Pediatric Hematology/Oncology.


Jan 3-5, 1987 “A Unified Approach to the Analysis of Balanced and Unbalanced Fixed Effects Data.” American Statistical
Association Winter Conference.


May 1984 Tutorial on Unbalanced Analysis of Variance. Special Colloquium. University of Georgia.


Nov 14, 1979 Seminar: “The Significance of Significance Testing.” Clinical Research Center, Emory University, Atlanta, Georgia.

1978 Seminar: “Analysis of Time Series Data.” Centers for Disease Control, Atlanta, Georgia.

1978 Seminar: “Analysis of Variance and Covariance.” Centers for Disease Control, Atlanta, Georgia.


April 6, 1974 Dinner Speaker. Atlanta Chapter ASA Meeting.


February 1971 “Estimation of Variance Components Via Maximum Likelihood.” Emory University, Atlanta, Georgia.


MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Statistical Association (Member since 1962)

2013-2015 Appointed to Dixon Awards Committee, American Statistical Association

2015 Chair, W.J. Dixon Awards Committee, American Statistical Association

2003 – 2008 Member, Finance Committee

2001 Chair, Local Assistance Committee, Joint Statistical Meeting

2000 - 2001 Nomination Committee Member (President and Vice President)

1998 - 2000 Elected Council of Sections Representative, Section on Statistical Consulting

1994 Joint Program Committee: Section on Teaching of Statistics in the Health Sciences

1994 Organized, Chaired and Discussed Invited Paper Session Joint Statistical Meetings

1993 - 1995 Board Member, District Representative

1990 - 1991 Member, Local Arrangements Committee, Joint Statistical Meetings
1988-1990 Member, Publications Committee, Vice-Chair
1988 Member, Ad Hoc Committee on Transition Costs for Editors of ASA Publications
1988-1989 Committee on the ASA Sesquicentennial; Chair of Finance Subcommittee
1987-1989 Winter Conference Evaluator Institutional
1987-1994 Membership Representative Winter
1987 Conference Coordinator
1985-1986 Chair, Nominating Committee for District Governor Chair of Council of Governors and ASA Board Representative
1984-1986: Member, Ad Hoc Committee on ASA Policy on Grants and Contracts
1985-1986 Executive Committee, Council of Chapters, District 5 Governor
1984-1986 President, Atlanta Chapter ASA
1981-1983 Board Member, District 5 Representative
1981-1983 Member, Budget Committee of Board
1983 Chair, Budget Committee of Board
1980 Organized and Chaired, Invited Session at National ASA Meeting
1979-1982 Associate Editor, The American Statistician
1979-1982 Vice-Chair, Ad Hoc Committee of Sections and Subsections
1979-1982 Vice Chair, Committee to Revise the ASA Constitution
1977-1978 Member, Ad Hoc Committee on Chapters Outside U.S. and Canada
1975-1976 Member, Ad Hoc Committee on Membership, Dues and Publications
1975 Vice-Chair, Executive Committee of Local Arrangements National ASA Meeting
1974 Chair, Nominating Committee for District 5 Representative
1975; 1977-80 Chair, Nominating Committee, Atlanta Chapter ASA
1977-1979 Chair, Committee on Chapter, District and Regional Activities
1974-1976 Member, Committee on Chapter, District and Regional Activities
1973-1974 President, Atlanta Chapter ASA
1972-1973 Secretary/Vice President, Atlanta Chapter ASA

American Statistical Association Elected Office
Management Review Committee Member
Board Planning Teams: Outreach, Chair; Activities for non-Ph.D. members
Council of Chapters Governing Board: Chair, Fellows Committee

Biometrics Society (Member since 1971)
2010, Chaired IMS Special Lecture Session
1994, Served on Local Arrangements Committee for the Biometrics Spring Meeting, Eastern North American Region, Cleveland, Ohio
1986, Local Arrangements Chair, 1986 Regional Meeting (ENAR)
1981-1983, Member, Regional Advisory Board (ENAR)

Virginia Academy of Sciences (Member 1960-1967)
1966-1967 Vice President, Statistics Section

Southern Regional Council on Statistics (Member 1986-1993; 2000-)
2012 Local Arrangements Chair, Jekyll Island, Georgia
2010-2011 Past-President and Member of Program Committee for 2011 SRC
2009 Co-Program Chair, Summer Research Conference, Jekyll Island, Georgia
2008-2009 President
2006-2007 President-Elect
1992-1994 Executive Committee, Secretary
1988-1990 Member, Summer Research Conference Planning Committee
1989 Program Chair, Summer Research Conference
1989-1993 Chair, Awards Committee
1986-1993 Institutional Representative

Society for Clinical Trials (Member since 1994)
2009 Invited Session Organized and Speaker at Annual Meeting, May 4th
2004 Organized and Chaired Invited Session at Annual Meeting, May 26th
2004 Program Committee
CONSULTING AND/OR ADVISING

2011-2014 St. Jude Medical
2008-2009 Eagle Pharmaceuticals
1993-1995 Scientific Review Committee, American Cancer Society - "Colon Polyp Prevention Study"
1991-1994 CytRx Corporation
1991-1994 Theragenics Corporation
1990-1994 Solvay Pharmaceuticals
1990-1991 Bard Urological
1989-1990 Norwich-Eaton Pharmaceuticals
1983 Middle South Utilities
1983-1987 Veterans Administration, Operations Committee Member
1980 DeKalb County School System
1979-1980 Mary Ann Oakley, Attorney (Age Discrimination Case)
1974- Centers for Disease Control and Prevention
1976-1980 Georgia Power Company (Environmental Studies Division)
1976 National Heart and Lung Institute

REFEREEING (STATISTICAL JOURNALS)


JOURNAL EDITORSHIP

Statistical Editor, Annals of Epidemiology (2003-2008)

OUTSIDE PROFESSIONAL ACTIVITIES

Data and Safety Monitoring Boards

• Member, Data and Safety Monitoring Committee, Winship Cancer Institute, 2011-present
• Member, Data and Safety Monitoring Committee for NIDDK U01 grant: “Treatment of Chronic Disease Mineral Bone Disorder”
• Home-Based AIDS Core Project, Chair, DSMB, Uganda/CDC
• Multicenter Selective Lymphadenectomy Trial (MSLT) funded by the National Cancer Institute
• HALT-C Trial funded by National Institute of Diabetes, Digestive and Kidney Diseases
• Chair, Data Safety Monitoring Committee, “A Peer-led, Medical Disease Self-management Program for Mental Health Consumers” (PI: B. Druss)

Advisory Committees/Special NIH Panel Reviewer

• Special Reviewer NIH/NCI Grants
• Special Reviewer NIH/NIAID Training Grants
• Alumni Advisory Committee, Texas A & M, Department of Statistics
• Advisory Committee, Lung Cancer SCORE Grant, Winship Cancer Institute
• Advisory Committee, Exploratory Nursing Research Center, Emory University School of Nursing
• Dialysis Outcomes and Practice Patterns Study Advisory Board Member, AMGEN.
• Advisory Board, Department of Mathematical Sciences, Clemson University
• Review Biostatistics and Bioinformatics Programs, Northwestern University School of Medicine

GRANT SUPPORT (2011-2014)

• 5 P30 AI50409-15 (Curran), 08/01/98-01/01/15 NIH $1,357,566, Centers for AIDS Research
• 3P01CA116676-05S1 (Khuri), 06/20/06-05/31/12 NIH $4,420,995, Targeting Cell Signaling in Lung Cancer to Enhance Therapeutic Efficacy
• 5 P50 MH077083-04 (Mayberg), 07/14/06-06/30/11
NIH $1,202,123, Predictors of Antidepressant Treatment Response: The Emory Cidar
0.60 calendar months

• 5 P01 HD32571-19 (English), 04/20/95-03/31/17
NIH/NICHD $3,402,250, Spinal Circuits and the Musculoskeletal System
0.60 calendar months

• 5 P50 MH077928-04 (Stowe), 09/01/07-07/31/12
NIH/NIMH $4,098,570, Perinatal Stress and Gene Influences: Pathways to Infant Vulnerability
0.60 calendar months

• 5 P01 HL086773-03 (Roback), 07/01/08-08/31/13
NIH $1,249,686, Mechanisms and Interventions Addressing Serious Hazards of Transfusion and Cellular Therapies
0.96 calendar months

• 5 R21 AT004220-02 (Kutner), 07/01/09-06/30/12
NIH $152,756, Melatonin Supplementation and the Metabolic Syndrome
0.60 calendar months

• 3 R21 AT00450901-A2S1 (Abramson), 09/30/09-09/29/11
NIH $162,875, Melatonin and Nighttime Blood Pressure in African Americans
0.48 calendar months

• 1 R34 AI091437-01 (Omer), 09/23/10-08/31/12
NIH $174,916, Effects of Maternal Influenza Immunization: A Field Trial in Guatemala
0.36 calendar months

• 1 P01 HL101398-01 (Sheps), 09/01/10-05/31/15
NIH/NHLBI $1,425,790, Mental Stress Ischemia: Mechanisms and Prognosis
0.60 calendar months
JEFFREY S. MORRIS
Department of Biostatistics, University of Texas M.D. Anderson Cancer Center
P.O. Box 301402, Houston, Texas 77230-1402
Voice: 713-563-4284  Email: jefmorris@mdanderson.org

EDUCATION
Ph.D., Statistics, Texas A&M University, August 2000. Advisors: Raymond J. Carroll and Naisyin Wang

PROFESSIONAL EXPERIENCE
- February 2011-: Deputy Chair, Department of Biostatistics, University of Texas MD Anderson Cancer Center
- September 2010- : Professor, Department of Biostatistics, University of Texas MD Anderson Cancer Center
- August 2010-February 2011: Long Term Visiting Fellow, Statistical and Applied Mathematical Sciences Institute (SAMSI), Analysis of Object Data
- September 2005-August 2010: Associate Professor, Department of Biostatistics, University of Texas MD Anderson Cancer Center.
- August 2000-August 2005: Assistant Professor, Department of Biostatistics, University of Texas MD Anderson Cancer Center.
- May 1997-July 1997: Intern, Hoechst Marion Roussel, Kansas City, MO.

HONORS
- Myrto Lefkopoulou Distinguished Lectureship, Harvard University, 2011
- Fellow, American Statistical Association, 2011
- H. O. Hartley Award, Texas A&M University Department of Statistics, 2009
- American Statistical Association Noether Young Scholar Award, 2005
- Thomson-ESI Hot Paper in the Field of Computer Science, July 2005
- MD Anderson Cancer Center E.N. Cobb Faculty Scholar Award, 2004
- Best Presentation, 4th Critical Assessment of Microarray Data Analysis, 2003
- Mitchell Prize for Outstanding Bayesian Application Paper, 2003
- JASA Applications and Case Studies Editor's Invited Paper, 2003
- Best Abstract, 1st Annual Proteomics Data Mining Conference, 2002
- Travel Award for Young Researchers, Biometrics Section of ASA, 2001
- Texas A&M College of Science Dean’s Graduate Fellowship, 1995
- Texas A&M University Graduate Merit Fellowship, 1995

RESEARCH GRANTS AND CONTRACTS
Current:
• National Cancer Institute, (CA-096520), T32, Training Program in Biostatistics for Cancer Research, Funded Through 2018. (Co-PI, Marina Vannucci PI).
• National Cancer Institute, (CA-160736), R01, Integrative Methods for High-Dimensional Genomics Data, Funded through 2015. (Co-PI, Veera Baladandayuthapani PI).
• National Cancer Institute (CA-016672), P30, Cancer Center Support Grant, 2000-present (Statistician, Ron DePinho PI). Funded through 2018.
• National Institute on Drug Abuse (DA-032581), R01, Beyond Cue Reactivity: ERPs, Sensitivity to Natural Rewards, and Smoking Cessation, Funded through 2015. (Co-Investigator, Francesco Versace PI).
• National Cancer Institute, (CA-137213), R01, 15-LOX-1 effects on colitis and colon cancer, Funded through 2011. (Statistician, Imad Shureiqi PI).
• National Cancer Institute, (CA-142969), R01, Molecular targeting of PPAR-delta in colon cancer, funded through 2015. (Co-Investigator, Imad Shureiqi, PI)
• National Cancer Institute, (CA-130821), P01, Cellular and Molecular Mechanisms of Gastrointestinal Cancers, Funded through 2014. (Co-Investigator, Lopa Misra PI).

• National Cancer Institute, (CA-158676), R21, Determinants of Efficacy to the Akt Inhibitor Perifosine in Metastatic Colorectal Cancer, Funded through 2013. (Statistician, Cathy Eng PI).

• National Cancer Institute, (CA-045809), U10, UT MD Anderson Cancer Center Community Clinical Oncology Research Base, Funded through 2017. (Biostatistics Core Director, Michael Fisch PI).

• National Cancer Institute, (CA172670), R01, Stress Signaling Pathways and Resistance in Colorectal Cancer, Funded through 2017 (Co-Investigator, Scott Kopetz PI).

• National Cancer Institute, (CA170035), R21, Integrating plasma IGF-1 into novel classification of hepatocellular carcinoma, Funded through 2014. (Co-Investigator, Ahmed Kaseb PI)

• Cancer Prevention & Research Institute of Texas (CPRIT), (RP101207), P04, CERCIT: Comparative Effectiveness Research of Cancer in Texas, Funded through 2013 (Collaborator, Linda Elting PI).

• National Institute on Minority Health and Health Disparities, (MD-007056), R01, Environmental and Genetic Factors for Pancreatic Cancer Among Blacks, Funded through 2017. (Statistician, Donghui Li, PI)

Completed:

• National Cancer Institute (CA-107304), R01, Adaptive Methods for Biomedical Functional Data, 2004-2013 (PI).

• National Cancer Institute (CA-098380), R01, Molecular Epidemiology of Pancreatic Cancer, 2004-2011 (Statistician, Donghui Li PI).

• National Cancer Institute, (CA-136980), K23, Src Inhibition in Colorectal Cancer, Funded through 2013. (Statistician, Scott Kopetz PI).

• National Cancer Institute, (CA-142969), R01, Molecular Targeting of PPAR-delta in colon cancer, (Statistician, Imad Shureiqi, PI), Funded through 2011.

• National Institute for Alcohol Abuse (AA-016157), R01, Brain Biomarkers of Alcoholism and Abstinence, 2006-2011 (co-PI, Howard Gutstein PI).

• National Institute on Drug Abuse (DA-0154604), R01, From Drug Use to Addiction: Unearthing the Switches, 2002-2007 (Collaborator, Howard Gutstein PI).

• National Institute for Alcohol Abuse (AA-1388602), R56, Proteomic Approaches to Alcoholism, 2005-2008 (Collaborator, Howard Gutstein PI).

• National Cancer Institute (CN-005126), N01, A Phase I/II Study of Celecoxib in Genotype-Positive, Phenotype-Negative Children with FAR, 2000-2007 (Statistician, Patrick Lynch PI).


• National Cancer Institute (CA-104278), R01, Molecular Targeting of 15-Lipoxygenase-1 Colon Cancer, 2004-2008 (Statistician, Imad Shureiqi PI)

• National Cancer Institute (CA-106577), R01, 5-LOX-1 and Clinical Chemoprevention of Colon Tumors (Collaborator, Imad Shureiqi PI). 2005-2009.

• National Cancer Institute (CA-139767), R13, Conference on “Statistical Methods for Complex Biological Data”, 2009-2010 (PI).

Patents:

PUBLICATIONS (Note: * indicates corresponding or joint first/corresponding author)


Submitted Papers:

Baladandayuthapani V, Abruzzo LV, Coombes KRC, and Morris JS: Bayesian adaptive spline-based functional regression with application to copy number data.

Zhang L, Baladandayuthapani V, Baggerly K, Czerniak B, and Morris JS. Functional CAR models for spatially correlated high-dimensional functional data. Under revision for JASA-TM.


INSTRUCTION AND MENTORING

Formal Teaching Experience:


[2] Teaching Assistant, Texas A&M University (Fall 1995): served as grader for graduate level Statistics course.

[3] Teaching Assistant/Instructor, Texas A&M University (Spring 1996, Summer 1996 x 2, Fall 1996, Spring 1997, Fall 1997): served as sole instructor for introductory undergraduate statistics courses (STAT301/STAT302) for non-mathematical majors, giving all lectures, preparing all homeworks and exams, and holding full office hours.

[4] Assistant Lecturer, Texas A&M University (Spring 1998): served as sole instructor for undergraduate Statistics courses for engineering majors (STAT211), giving all lectures, preparing homeworks and exams, and holding full office hours.

Postdoctoral Researchers:

[1] Andrew Dowsey (EPSRC Postdoctoral Fellowship), 2008-2010. (Reader, University of Liverpool)


[3] Lin Zhang (co-advise with Veera Baladandayuthapani), 2012-.


[5] Bruce Bugbee (co-advise with Veera Baladandayuthapani), 2014-

Students:


[9] Pan Tong, PhD, GSBS, Supervisory Committee, 2009-2010.


Chen Jiong, PhD, GSBS, Tutorial Mentor, 2013, Advisory Committee 2013-present, Examination Committee 2014.
Jialu Li, PhD, GSBS, Advisory Committee, 2013-present.
Zeya Wang, Rice University, co-advisor (Wenyi Wang), 2013-present.
Alexander Davis, PhD, GSBS, Tutorial Mentor, 2014; Advisory Committee 2014-present.

Invited Presentations and Seminars:
I have presented 135 invited lectures, including the following:
- Mayo Clinic 2000
- Iowa State University 2000
- University of Michigan 2000
- University of Florida 2000
- University of New Mexico 2000
- University of Chicago 2000
- Duke University 2000
- Fred Hutchinson Cancer Research Center 2000
- North Carolina State University 2000
- The University of Texas MD Anderson Cancer Center 2000
- Rice University 2001
- University College of London 2001
- University of Kent, Canterbury UK 2001
- Southern Methodist University 2001
- Mississippi State University 2001
- Texas A&M University 2001
- Yale University 2002
- Harvard University 2002
- University of North Carolina 2002
- Texas A&M University 2002
- St. Cloud State University 2002
- ENAR Spring Meeting 2002
- 7th Valencia International Meeting on Bayesian Statistics 2002
- ENAR Spring Meeting 2003
- WNAR Summer Meeting 2003
- Joint Statistical Meetings 2003
- Critical Assessment of Microarray Data Analysis 2003
- Texas A&M University 2003
- University of Texas, School of Public Health 2003
- ENAR Spring Meeting 2004
- ISBA World Meetings 2004
- International Biometrics Conference 2004
- Advancing Practice, Instruction, and Innovation through Informatics 2004
- Rice University 2004
- Texas A&M University 2004
- Los Alamos National Laboratories 2004
- University of Pennsylvania 2004
- Harvard University 2004
- ENAR Spring Meeting 2005
- EMR Meeting of the IBS 2005
- ICSA Applied Statistics Symposium 2005
- WNAR Summer Meeting 2005
- Joint Statistical Meetings 2005
- Johns Hopkins University 2005
- University of Texas, Dallas 2005
- ICSA Applied Statistics Symposium 2006
- International Workshop on Applied Probability 2006
- Clinical Proteomics in Oncology Conference 2006
- Joint Statistical Meetings 2006
- University of Washington 2006
- University of Minnesota 2006
- International Indian Statistical Association Meeting 2007
- ENAR Spring Meeting 2007
Current and Future Trends in Nonparametrics
Institute for Pure and Applied Mathematics Workshop
McGill University
Columbia University
Brown University
National Institute of Allergy and Infections Diseases
University of North Carolina
North Carolina State University
Georgetown University
University of Michigan
St. Mary's University
Wyeth, Functional Mixed Models Short Course
ENAR Spring Meeting
Statistical Theory and Methods for Complex, High-Dimensional Data
SRCOS Summer research Conference
WNAR Summer Meeting
International Biometrics Conference
ISBA World Meetings
Prairie View A&M University
Imperial College London
Fred Hutchinson Cancer Research Center
Texas A&M University
Rice University
University of Rochester
WNAR Summer Meeting
Joint Statistical Meetings
University of South Carolina
Kansas University Medical Center
ENAR Spring Meeting
University of Buffalo (Distinguished Scholars Lecture Series)
SRCOS Meetings
Hong Kong University
Joint Biostatistics Symposium, China
Joint Statistical Meetings
North Carolina State University
Duke University
SAMSI Workshop on Longitudinal and Functional Data
Messiah College
Thomas Jefferson University
University of Pennsylvania
Emory University
University of Georgia
University of Missouri
ENAR Spring Meeting
High Dimensional Statistics: Advances and Challenges, Singapore
Statistical Methods for Very Large Data Sets Conference, JHSPH
SAMSI Analysis of Object Data Program Transition Workshop
University of North Carolina
Joint Statistical Meetings
Myrto Lefkopoulou Distinguished Lecture, Harvard University
Texas A&M University
North Carolina State University
University of North Carolina
Workshop on Bioinformatics, Biostatistics, & Biology of Nutrition/Cancer
Interface 2012, Rice University
ISBA World Meetings, Kyoto, Japan
IMS-APRM 2012, Tsukuba, Japan
Joint Statistical Meetings
BASS Meetings, Savannah, GA
MD Anderson Biostatistics Grand Rounds 2012
Young Investigator Workshop, ENAR Spring Meeting 2013
Conference of Texas Statisticians (COTs), Houston, TX 2013
Virginia Tech University, Blacksburg, VA 2013
High Dimensional Inference with Applications, Canterbury, UK 2013
Oxford University, Oxford, UK 2013
University of Manchester Biostatistics, Manchester, UK 2013
University of Manchester CADET, Manchester, UK 2013
University of Nottingham, Nottingham, UK 2013
European Meeting of Statisticians, Budapest, Hungary 2013
Joint Statistical Meetings, Montreal, Quebec 2013
University of Washington Statistics/Biostatistics, Seattle, WA 2013
Bayesian Biostatistics 7 Meeting, Houston, TX 2014
ENAR Spring Meeting, Baltimore, MD 2014
International Biometrics Conference, Florence, IT (selected contributed) 2014
ISBA World Meetings, Cancun, Mexico 2014
Joint Statistical Meetings, Boston, MA 2014
BASP Frontiers Workshop, Switzerland 2015
Duke University, Durham, NC 2015
University of Alabama, Birmingham, AL 2015
Michigan Imaging Workshop, Ann Arbor, MI 2015
BIRS Workshop on Frontiers in Functional Data Analysis, Banff 2015
Joint Statistical Meetings, Seattle WA 2015

PROFESSIONAL SERVICE

Editorial Responsibilities:

- Associate Editor, Biometrics (2006-2011) (handled 50 submissions).

Journal Reviewer:

I have reviewed over 100 journal articles, including articles in:

- Journal of the American Statistical Association
- Journal of the Royal Statistical Society (Series B)
- Biometrics
- Annals of Statistics
- Annals of Applied Statistics
- Statistical Science
- Biostatistics
- Technometrics
- Journal of Computational and Graphical Statistics
- Journal of the Royal Statistical Society (Series C)
- Journal of Statistical Planning and Inference
- Statistics in Medicine
- Journal of Agricultural, Biological, and Environmental Statistics
- International Journal of Statistics
- Bioinformatics
- PLoS One
- Proteomics
- Proteins
- BMC Bioinformatics
- Current Bioinformatics
- IEEE/ACM Transactions on Computational Biology and Bioinformatics
- IEEE Transactions on Medical Imaging
- Genomic Signal Processing
- Science Translational Medicine
- New England Journal of Medicine
- Journal of the National Cancer Institute
- Cancer Informatics
- Communications in Statistics
- Journal of VLSI Signal Processing
- Clinical Cancer Research
- Neuropharmacology
- Nucleic Acids Research
- Molecular and Cellular Proteomics
- Journal of Cellular and Molecular Medicine
- Chemometrics and Intelligent Laboratory Systems
- Journal of Microscopy
- Physiological Genomics
- Drug Information Journal
- International Journal of Imaging Systems and Technology
- International Journal of Molecular Science

Conference Organizer:

- Invited Session Organizer, ENAR 2002.
- Invited Session Organizer, WNAR 2003.
- Session Organizer, Conference of Texas Statisticians, 2003.
- Invited Session Organizer, ENAR 2005.
- Invited Session Organizer, WNAR 2005.
- Topic Contributed Session Organizer, IBC 2006.
- Program Chair, Biometrics Section of the American Statistical Association, ENAR 2006.
- Invited Session Organizer, ENAR 2006.
- Invited Session Organizer, JSM 2006.
- Program Committee Member, ENAR 2007.
- Invited Session Organizer, ENAR 2007.
- Invited Session Organizer, JSM 2009.
- Program Co-chair, ENAR 2010.
- IMS Invited Session Organizer, ENAR 2010.
• Organizing Committee, “Bayesian Biostatistics” 2010.
• Organizing Committee, SRCOS 2010.
• Invited Session Organizer, SRCOS 2010.
• Organizing Committee, “Bayesian Biostatistics” 2011.
• Special Late Breaking Session Organizing Committee, ENAR 2011.
• Topic Contributed Session Organizer, JSM 2012.
• Organizing Committee: “Bayesian Biostatistics” 2012.
• Organizing Committee: “Interface Conference”, Rice University, 2012.
• Topic Contributed Session Organizer, JSM 2013.
• Organizing Committee: “Bayesian Biostatistics” 2014.
• Invited Session Organizer, IBC 2014.
• Invited Session Organizer, Michigan Imaging Workshop 2015.
• Organizing Committee “iBRIGHT Integrative Genomics and Personalized Medicine” 2015
• Program Chair, JSM 2016.

Other Professional Service:
• ENAR Regional Committee, 2013-2015.
• Member, Myrto Lefkopoulou Distinguished Lectureship Committee, 2012.
• Secretary, ENAR, 2011-2012.
• Council of Sections Representative, ASA Section on Nonparametric Statistics, 2010-2012.
• Member, DSMB, Aggenix, 2011-2012.
• H.O. Hartley Award Committee, Texas A&M University, 2010-.
• Member, OSMB for NHLBI grant, 2005-2008.
• NIH Study Section Member, R13 2009-2012, SBIR 2010, 2012.
• Susan G. Komen for the Cure’s Targeted Therapies-5 Study Section, 2009.
• Texas A&M Department of Statistics Alumni Board 2008-2013.
• Member of Regional Advisory Board, ENAR, 2004-2006.
• Student Paper Review Committee, WNAR 2004.

Institutional Service (MD Anderson):
• Institutional Tenure and Promotions Review Committee, 2014-present.
• Deputy Chair, Department of Biostatistics, 2011-present.
• Mentoring Coordinator, Department of Biostatistics, 2013-present.
• Co-Director, Joint MDACC-Rice Biostatistics Program, 2011-present.
• Director, Joint MDACC-TAMU Medical Statistics Program, 2011-present.
• Graduate Education Committee, GSBS, 2012-2015.
• Chair, Faculty Search Committee, 2012, 2015.
• Member, Faculty Search Committee, Behavioral Science Statistics 2012.
• Member, Faculty Search Committee, Bioinformatics 2014.
• Member, Faculty Search Committee, Biostatistics 2011.
• Faculty Achievement Awards Selection Committee, 2012.
• Clinical Research Council, MD Anderson Cancer Center, 2009-2012.
• Clinical Research Advisory Committee, 2011-present.
• Internal Advisory Board, Multiple Myeloma P01, 2006-2012.
• Internal Advisory Board, GU P01, 2009-2011.
• Study Section Member, Internal Research Grants, 2005-2008.
• Study Section Member, ACS Institutional Research Grants, 2008-2010.
• Member, Faculty Compensation Committee, MD Anderson Cancer Center, 2006-2009.
• Chair, Faculty Compensation Committee, MD Anderson Cancer Center, 2007-2009.
• Faculty Senator, MD Anderson Cancer Center, 2006-2011.
• Faculty Appeals Committee Member, MD Anderson Cancer Center, 2009-2012.
• Mid-tenure Review Committees, Veera Baladandayuthapani (Chair, 2009), Paul Scheet (Chair, 2012), Michele Guindani (Chair, 2012), Wenyi Wang (Member, 2012), Han Liang (Member, 2013), Francesco Stingo (Chair, 2014)
SCOTT D. GRIMSHAW  
Department of Statistics, Brigham Young University  
219 TMCB, Provo, Utah 84602-6575  
Voice: 801-422-6251  Email: grimshaw@byu.edu

EDUCATION:
1989  Ph.D., Statistics, Texas A&M University, College Station, TX  
1985  M.S., Statistics, Texas A&M University, College Station, TX  
1983  B.S., Mathematics, Southern Utah State College, Cedar City, UT  
Magna Cum Laude

EXPERIENCE:
2004–  Professor, Department of Statistics, Brigham Young University, Provo, UT.
2010–  Statistician, BYU Broadcasting, Provo, UT.
1999-2004  Associate Professor, Department of Statistics, Brigham Young University, Provo, UT.
2001  Faculty Advisor, Washington Seminar, Brigham Young University, Provo, UT.
1993-99  Assistant Professor, Department of Statistics, Brigham Young University, Provo, UT.
1989-93  Assistant Professor (tenure track), Management Science and Statistics, College of Business and Management, University of Maryland, College Park, MD.
1987-89  Research Assistant, Department of Statistics, Texas A&M University, College Station, TX.
1985-86  Statistics Internship Program, Jointly Sponsored by the Applied Statistics Group, Engineering Department, E.I. du Pont de Nemours & Co. (Inc.), Wilmington, DE and the Department of Statistics, Texas A&M University, College Station, TX.

HONORS & AWARDS:
• 2007 BYU Statistics Faculty Fellowship.
• 2005 H.O. Hartley Award, for Distinguished Service to the Discipline of Statistics by a Former Student of the Texas A&M Statistics Department.
• 2005 BYU Statistics Chair’s Outstanding Paper Award.
• 2005 BYU Statistics Teacher of the Year.
• 2003 BYU Statistics Chair’s Outstanding Paper Award.
• 2001 Frank Wilcoxon Prize for the Best Practical Application Paper in Technometrics.
• 1987 W.S. Connor Memorial Award, Outstanding Ph.D. candidate, Department of Statistics, Texas A&M University.

SERVICE TO SPONSORING INSTITUTION:
• 2014–2015 Faculty Advisory Council, College of Physical and Mathematical Sciences Representative.
• 2014–15, Teaching Committee.
• 2013 Mathematical Sciences Committee Evaluating ENGL 316, College of Physical and Mathematical Sciences.
• 2012 Modeling Donor Affinity to BYU Colleges and Units, LDS Philanthropy.
• 2012 Impact of PBS Host Event on Preschool Reading, KBYU Eleven.
• 2010–12 Teaching and Learning Committee Chair, Department of Statistics.
• 2008–12 Rank and Status Committee, Department of Statistics.
• 2006–10 Associate Chair, Department of Statistics.
Responsible for faculty teaching assignments, program learning outcomes and assessment that led to a new curriculum that satisfies ASA Undergraduate Statistics Guidelines.
• 2006–10 Graduate Coordinator, Department of Statistics.
Changed the graduate culture from one where 60% of students took longer than the stated 2 years to graduate. Since Fall 2006 all admitted students complete degree in 2 years or less. Worked with students who had left the
program to complete project or thesis and graduate (last two graduated April 2008). Grew the BS/MS Statistics Integrated program as the department’s flagship undergraduate experience.

- 2008–10 Resources Subcommittee of Department Teaching and Learning Committee, Department of Statistics.
- 2008 Spring Research Conference Organizing Committee, College of Physical and Mathematical Sciences.
- 2007 Rank and Status Committee, College of Physical and Mathematical Sciences.
- 2005–07 University Academic Unit Review Committee.
- 2005 Search Committee Chair, Department of Statistics.
- 2002–03 Search Committee, Department of Statistics.
- 2002–04 Five-year Plan Committee, Department of Statistics.
- 2001–03 Scholarship and Awards Committee Chair, Department of Statistics.
- 2001 Faculty Advisor, Washington Seminar. Supervised 31 BYU students that arrived in Washington, DC two weeks before the September 11 terrorist attack on the Pentagon. Those events changed the student needs, many internship assignments, and some of the Washington Seminar program. One highlight was a debriefing by the Honorable Robert Bennett, Senator (R-UT), the day Congress recessed after the October anthrax letters were delivered to the Senate majority leader’s office.
- 2000 Co-Advisor of 2000 Utah Colleges Exit Poll, Departments of Statistics and Political Science. One of four faculty advisors who mentored undergraduate statistics and political science students to perform the ambitious sampling class project of a Utah statewide exit poll. The students are organized into a virtual polling firm and committed over 2,500 man-hours to sample polling places throughout the state by training over 500 student pollsters from BYU and other Utah colleges and universities.
- 1999 MS Comprehensive Exam Committee, Department of Statistics
- 1998–99 Curriculum Committee, Department of Statistics
- 1993– Business Emphasis Advisor, Department of Statistics.

SERVICE TO THE PROFESSION

- 2008– Texas A&M Statistics Alumni Advisory Board
- 1990– Referee, JASA, Technometrics, JQT, TAS, JCGS, Communications in Statistics, JSPI, JQAS
- 2006–12 Associate Editor, Computational Statistics
- 2011–12 First Vice President, Utah Chapter of the American Statistical Association.
- 2011 SPES Fall Technical Conference Program Committee Chair
- 2010 SPES Fall Technical Conference Program Committee Representative
- 2007 Local Area Committee Chair, Joint Statistics Meeting, Salt Lake City, UT.
- 2005 Contributed Program Chair, Spring Research Conference on Statistics in Industry, Park City, UT.
- 1998 Invited Session Organizer, “Utilizing Large Industrial Data Sets for Product and Process Quality Improvement,” Joint Statistics Meetings, Dallas, TX.

**PUBLICATIONS:**

**Refereed:**


Non-Refereed:


CURRENT RESEARCH INTERESTS:
Audience Measurement and Analytics; Control Charts; Data Mining; Statistical Computing.

Work In Progress:

• Jensen, Willis A., Espen, Ben, and Grimshaw, Scott D. “Nonlinear Profile Monitoring for Oven Temperature Data.” Revise and Resubmit to Journal of Quality Technology.


FUNDED RESEARCH:


• 2010-11 BYU Marriott School of Management (Gary C. Cornia). “Measuring the Impact of Wal-Mart Coming to Sanpete County.” $12,000.
• 1996–97 NBC Program Research, “Model Consistent Bias in Telephone Surveys that Gauge the Strength of Programming Relative to Competition,” $15,000. NBC, Burbank, CA.

PRESENTATIONS:

**STUDENTS SUPERVISED**

<table>
<thead>
<tr>
<th>Year</th>
<th>Student</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>1992</td>
<td>Fawzi Abdul-Wahab (Ph.D. U. Maryland–College Park)</td>
<td>Chair</td>
</tr>
<tr>
<td></td>
<td>“Optimal Quantile Based Control Charts for Location-Scale Alternatives”</td>
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<tr>
<td>1993</td>
<td>Kamlesh Jain (Ph.D. U. Maryland–College Park)</td>
<td>Chair</td>
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<tr>
<td></td>
<td>“A Bayesian Approach to Multivariate Quality Control”</td>
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<tr>
<td>1995</td>
<td>Shane Reese (MS BYU)</td>
<td>Chair</td>
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<tr>
<td>1996</td>
<td>Scott Shellman (MS BYU)</td>
<td>Chair</td>
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<tr>
<td>1996</td>
<td>Courtney Black (MS BYU)</td>
<td>Chair</td>
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<tr>
<td>1996</td>
<td>Greg Jones (MS BYU)</td>
<td>Member</td>
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<tr>
<td>1996</td>
<td>Xiaoying Xiao (MS BYU)</td>
<td>Member</td>
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<tr>
<td>1996</td>
<td>Todd Nelson (BS BYU)</td>
<td>Mentor</td>
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<tr>
<td>1997</td>
<td>Todd Nelson (MS BYU)</td>
<td>Chair</td>
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<tr>
<td>1997</td>
<td>Matthew Johnson (MS BYU)</td>
<td>Member</td>
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<tr>
<td>1997</td>
<td>David Dahl (BS BYU)</td>
<td>Mentor</td>
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<tr>
<td>1998</td>
<td>Chris Peterson (MS BYU)</td>
<td>Chair</td>
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<tr>
<td>1998</td>
<td>David Dahl (MS BYU)</td>
<td>Chair</td>
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<tr>
<td>1998</td>
<td>Carolyn Hurt (MS BYU)</td>
<td>Member</td>
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<tr>
<td>1998</td>
<td>Jared Christensen (BS BYU) (Undergraduate Award Recipient)</td>
<td>Mentor</td>
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<tr>
<td>1999</td>
<td>Mike George (MS BYU)</td>
<td>Chair</td>
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<tr>
<td>1999</td>
<td>Rachelle Wilkinson (MS BYU)</td>
<td>Member</td>
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<td>1999</td>
<td>Jamis Perrett (MS BYU)</td>
<td>Member</td>
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<td>1999</td>
<td>Mike Richmond (MS BYU)</td>
<td>Member</td>
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<td>2000</td>
<td>Stephanie Stanworth (MS BYU)</td>
<td>Chair</td>
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<td>Year</td>
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<tr>
<td>2000</td>
<td>Alexis Merrill (Exit Poll)</td>
<td>Mentor</td>
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<td>2000</td>
<td>Betsy Lundy (Exit Poll)</td>
<td>Mentor</td>
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<td>2000</td>
<td>Jeff Larsen (BS BYU)</td>
<td>Mentor</td>
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<td>2000</td>
<td>Jana Sheppard (BS BYU)</td>
<td>Mentor</td>
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<td>2000</td>
<td>Aimee Wahle (BS BYU)</td>
<td>Mentor</td>
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<td>2000</td>
<td>Alvin Van Orden (BS BYU)</td>
<td>Mentor</td>
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<td>2000</td>
<td>Melaney Slater (BS BYU)</td>
<td>Mentor</td>
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<td>2000</td>
<td>Marcie Fillmore (BS BYU)</td>
<td>Mentor</td>
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<td>2001</td>
<td>Hripsime Bandourian (MS BYU)</td>
<td>Chair</td>
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<td>2001</td>
<td>Saule Ahoshina (MS BYU)</td>
<td>Member</td>
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<tr>
<td>2001</td>
<td>Kenton Wride (MS BYU)</td>
<td>Chair</td>
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<tr>
<td>2001</td>
<td>Alexis Merrill (MS BYU)</td>
<td>Member</td>
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<tr>
<td>2002</td>
<td>Sherstin Merx (BS BYU)</td>
<td>Mentor</td>
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<td>2002</td>
<td>Jerry Butler (BS BYU)</td>
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<td>2002</td>
<td>Mark Lyman (BS BYU)</td>
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<td>2003</td>
<td>Nicole Smith (MS BYU)</td>
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<td>Chris Green (MS BYU)</td>
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<td>2003</td>
<td>Betsy Lundy (MS BYU)</td>
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<td>Emily Dastrup (MS BYU)</td>
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<td>2004</td>
<td>Mandy Woolstenhulme (Ph.D. Exercise Science BYU)</td>
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<td>James Eddleman (MS Geology BYU)</td>
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<td>2005</td>
<td>Michael Smith (MS BYU)</td>
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<td>2005</td>
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<td>Stephen Manortey (MS BYU)</td>
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<td>Clint Stevenson (MS BYU)</td>
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<td>Rebecca Monson Richardson (MS BYU)</td>
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<td>2007</td>
<td>April Logan (MS BYU)</td>
<td>Member</td>
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<td>2007</td>
<td>Carly Pendleton (MS BYU)</td>
<td>Member</td>
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<td>2007</td>
<td>Natalie Johnson (MS BYU)</td>
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<td>Kassie Fronczyk (MS BYU)</td>
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<td>2007</td>
<td>Matt Heaton (MS BYU)</td>
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<td>2007</td>
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<td>Todd Remund (MS BYU)</td>
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<td>Tom Stewart (MS BYU)</td>
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<td>Jonathan Liljegren (MAcc BYU)</td>
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<td>2008</td>
<td>Zijun Dozier (MS Mathematics BYU)</td>
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<td>2008</td>
<td>Ben Hudson (MS Technology BYU)</td>
<td>Member</td>
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<td>2008</td>
<td>Tomo Funai (BS BYU)</td>
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<td>2008</td>
<td>Angela Nelson (BS BYU)</td>
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<td>Jared Geurts (BS BYU)</td>
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<td>Claire Barker (BS BYU)</td>
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<td>2009</td>
<td>Brenda Ginos (MS BYU)</td>
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<td>2009</td>
<td>Claire Owen (MS BYU)</td>
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<td>2009</td>
<td>Andrea Thomas (MS BYU)</td>
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<td>2009</td>
<td>Mike Ulrich (MS BYU)</td>
<td>Member</td>
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<tr>
<td>2009</td>
<td>Enkhmart Dudleenamjil (PhD Microbiology BYU)</td>
<td>Member</td>
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<tr>
<td>2009</td>
<td>Scott Morris (BS BYU)</td>
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<tr>
<td>2009</td>
<td>Sarah Clark (BS BYU)</td>
<td>IMPACT Mentor</td>
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<tr>
<td>2009</td>
<td>Rachel Teh (BS BYU)</td>
<td>IMPACT Mentor</td>
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<td>2010</td>
<td>James Hattaway (MS BYU)</td>
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2010 Erika Hernandez (MS BYU)  Member
2010 Tommy Leininger (BS/MS BYU)  Member
2010 Sarah Wilde (BS BYU)  IMPACT Mentor
2010 Rachel Teh (BS BYU)  IMPACT Mentor
2011 Angela Nelson (BS/MS BYU)  Chair
2012 Sarah Victors (MS BYU)  Chair
2014 Paul Sabin (BS/MS BYU)  Chair
2014 Andrew Brock (MS BYU)  Chair

COURSES TAUGHT AT BRIGHAM YOUNG UNIVERSITY

Graduate Courses
- Stat 535: Applied Linear Models. (1 time, last taught Fall 2013)
- Stat 525: Statistical Inference. (1 time, last taught Fall 1998) Stat 536: Regression Analysis. (3 times, last taught Fall 1997)
- Majors Courses
  - Stat 340: Introduction to Regression. (1 time, last taught Fall 2014)

Undergraduate Service Courses
- Stat 121: Principles of Statistics. (1 time, last taught Fall 2013)
- Stat 321: Elements of Mathematical Statistics. (2 times, last taught Winter 1993)

Graduate Service Courses
- Stat 510: Introduction to Statistics for Graduate Students. (1 time, last taught Winter 2008)
APPENDIX J.

Faculty Postdoctoral Researchers, 2009-2014

Carroll, Raymond

Assaad, Houssein (Research Assistant Professor, STATA Corporation)
Bhadra, Anindya (Assistant Professor, Purdue University)
Bliznyuk, Nikolay (Assistant Professor, University of Florida)
Garcia, Tanya (Assistant Professor, Texas A&M School of Public Health)
Hernandez-Magallanes, Irma (Postdoctoral Research Associate, Texas A&M Department of Statistics)
Joseph, Maria (Senior Statistician, General Dynamics Information Technology)
Kaprievitch, Yuliya (Lecturer, University of Tasmania)
Lee, Myoungji (Manager, Enterprise Model Validation Group, American Express)
Li, Haocheng (Affiliation Unknown)
Martinez, Josue (Affiliation Unknown)
Potgieter, Cornelius (Assistant Professor, University of Johannesburg)
Ryu, Duchwan (Assistant Professor, Northern Illinois University)
Maadooliat, Mehdi (Assistant Professor, Marquette University)
McLean Mathew (Research Assistant Professor, Texas A&M Department of Statistics)
Mohsenizadeh, Daniel (Research Assistant Professor, Texas A&M Electrical & Computer Engineering)
Murphy, Mary (Affiliation Unknown)
Tekwe, Carmen (Assistant Professor, Texas A&M School of Public Health)
Wei, Jiawei (Statistical Methodologist, Novartis)
Xu, Ganggang (Assistant Professor, Binghamton University)
Zhang, Xinyu (Affiliation Unknown)
Zoh, Roger (Research Assistant Professor, Texas A&M School of Public Health)
Zollanvari, Amin (Assistant Professor, Electronic Engineering Istanbul Kemerburgaz University)
Zorych, Ivan (Columbia University)

IAMCS/KAUST (Raymond Carroll)

Copeland, Dylan (Research Scientist at Global Geophysical Services)
Jin, Bangti (Assistant Professor, University of California, Riverside)
Li, Xiangfang (Assistant Professor, Prairie View A&M University)
McClarren, Ryan (Assistant Professor, Texas A&M Nuclear Engineering)
Oancea, Cosmin (Assistant Professor, University of Copenhagen)
Qian, Xiaoning (Assistant Professor, University of South Florida)
Pauletti, Miguel S. (Affiliation Unknown)
Schwartz, Scott (Research Associate, University of Texas, Austin)
Simeonova, Lyubima (Process Control Engineer, IM Flash Technologies)
Steinhauer, Dustin (Instructional Assistant Professor, Texas A&M Mathematics)
Wang, Jue (Senior Research Scientist, Adobe Research)
Wang, Xueying (Assistant Professor, Washington State University)
Zedler, Sarah (Research Associate, University of Texas at Austin Institute for Geophysics)

Huang, Jianhua

Huang, Wei (Affiliation Unknown)

Johnson, Valen

Breda, Ardala (Postdoctoral Research Associate, Texas A&M Department of Statistics, begin 2015)
Pan, Xuedong (Postdoctoral Research Associate, Texas A&M Department of Statistics, begin 2015)
Reed, Katherine (Postdoctoral Research Associate, Texas A&M Department of Statistics)
Sanyal, Nilotpal (Postdoctoral Research Associate, Texas A&M Department of Statistics, begin 2015)
Yajima, Ayako (Postdoctoral Research Associate, Texas A&M Department of Statistics, begin 2015)
Mallick, Bani
Bhadra, Anindya (Assistant Professor, Purdue University)
Chakraborty, Avishek (Assistant Professor, University of Arkansas)
Chatterjee, Arindam (Assistant Professor, Stat-Math Unit, Indian Statistical Institute)
De, Swarup (Analytical Consultant, SAS)
Dhavala, Soma (Associate Research Scientist, Dow AgroSciences, LLC)
Guha, Nilabja (Postdoctoral Research Associate, Texas A&M Department of Statistics)
Kundu, Suprateek (Assistant Professor, Emory University)
Zoh, Roger (Research Assistant Professor, Texas A&M School of Public Health)

Sheather, Simon
Broglio, Kristine (Statistical Scientist, Berry Consultants)
APPENDIX K
Texas A&M University
Department of Statistics
ByLaws

Introduction

The faculty of the Department of Statistics has as its primary duty to advance the discipline of statistics through teaching, research, service, and consulting. This should be accomplished in an atmosphere of collegiality and cooperation. Each faculty member has a responsibility in furthering the academic goals of the department and in maintaining the excellence of the department. This set of bylaws outlines the manner in which the faculty can achieve these goals.

The Department of Statistics shall be governed by these bylaws, which in turn are governed by policies of the Texas A&M University System, Texas A&M University, and the College of Science. The policies and procedures described in this document are based on the policy statements of the Texas A&M System, Texas A&M University, and the College of Science when appropriate. When those rules and policies change, the Department shall abide by those new rules and policies until the Department can amend these bylaws to reflect the changes.

A major goal of the bylaws is to bring order to the functioning of the Department by defining the rights and duties of department members. These bylaws reflect the principle that the responsibility for effective governance rests with both the faculty and the Department Head. Furthermore, effective governance depends on the exercise of responsible leadership by the faculty and the Department Head in their respective roles. The rules and responsibilities described in these bylaws shall be implemented with strict adherence to academic freedom, due process, and equal opportunity.

I. Faculty Organization

A. Membership of the Faculty of the Department of Statistics

1. All persons holding half-time or greater academic appointments in the Department of Statistics at the ranks of Distinguished Professor, Professor, Associate Professor, Assistant Professor, Executive Professor, Senior Professor, Senior Associate Professor, Instructional Professor, Instructional Associate Professor, Instructional Assistant Professor, Instructional Assistant Professor, Senior Lecturer, Lecturer are considered to be voting members of the faculty of the Department of Statistics at Texas A&M University (hereinafter, Department). A full-time appointment is defined as 100% during the nine month academic year. The descriptions of all faculty categories and ranks are contained in the document, “Texas A&M University Guidelines to Faculty Titles.”

2. Faculty members holding joint appointments or adjunct appointments in the Department, visiting faculty, and part-time faculty are welcome to attend faculty meetings but cannot vote on Departmental issues. A vote on tenure or promotion matters is restricted to appointments to be made at an equivalent or lower rank than the voting faculty member. Faculty ranks for voting purposes are as follows: Professor, Associate Professor, Assistant Professor, Executive Professor, Senior Professor, Senior Associate Professor, Instructional Professor, Instructional Associate Professor, Instructional Assistant Professor, Senior Lecturer, Lecturer.

B. Administrative Positions in the Department

a. Department Head

The Department Head is the administrative and executive officer of the Department and serves as the spokesperson to the University administration and communities outside of the University.

b. Term of Office

The term of office of the Department Head shall be four years, and is renewable. The Department Head shall be reviewed in the third year of the term according to the procedures...
established by the College of Science for all department heads within the College of Science.

c. Procedures for Selection of the Department Head

i. The Dean will establish a search committee following consultation with the faculty of the Department and will appoint the chair of the committee, who often is a faculty member outside of the Department but within the College of Science. A majority of the committee should be elected by the faculty of the Department. The Dean may appoint additional members to the committee.

ii. The search committee will advertise the position, will review all applicants and nominations, and will make recommendations to the faculty of the Department regarding their preferred candidate(s). A faculty meeting will be held to discuss the qualifications of the recommended candidates. After the faculty meeting, the committee will send the Dean a list of candidates which the committee has identified to invite for an interview. After receiving the Dean’s approval, the candidates will be invited for an interview. Pursuant to the Texas Open Records Act, all non-confidential material pertinent to applicants and nominations will be available to the entire faculty for review.

iii. Following a written or online ballot vote of the faculty, the candidate(s) receiving a majority affirmative support will be recommended to the Dean. A ranking of the candidates may also be sent to the Dean if the faculty or search committee so desires. If the vote of the faculty as a whole differs from the opinion of the search committee, that information will also be reported to the Dean, along with the recorded vote. The Dean will select and appoint the Department Head.


d. Duties of the Department Head

The Department Head, through direct action or delegation, shall:

i. In consultation with the Advisory Committee and appropriate Department committees, formulate and implement policies of the Department;

ii. Consult regularly with Departmental committee chairs;

iii. Preside at Departmental faculty meetings and ensure that accurate minutes of the meetings are preserved and that a summary of the minutes is distributed to the faculty at a reasonable time following the meeting;

iv. Formulate and manage the Departmental budget;

v. Manage office operations;

vi. Evaluate faculty and staff annually;

vii. Encourage faculty development;

viii. Carry on departmental correspondence;

ix. Resolve student complaints and potential conflicts;

x. Serve as the Department’s representative to ASA, SRCOS and COTS;

xi. Seek advice from individual faculty members, from Departmental committees, and from the faculty as a whole;

xii. Be an ex officio member of all duly constituted Departmental committees.

e. Authority of the Department Head

i. The Department Head appoints the chairs of all Departmental committees.
ii. It is expected that the Department Head will usually support the decisions of the committees and the faculty. If the Department Head is unable to support a recommendation made through usual procedures, the Department Head should, in a timely fashion, give a written explanation to the faculty or to the appropriate committee. In cases of disagreement, the Department Head should include relevant votes of committees and the vote of the faculty when reporting to the College of Science and University.

iii. The Department Head, serving as the principal financial officer of the Department, shall:

1. Supervise receipt and expenditure of all monies;
2. Prepare an annual operating budget.

iv. The Department Head, in conjunction with appropriate committees, shall supervise and coordinate the recruiting of new faculty members.

v. The Department Head shall make recommendations for faculty salary increases to the Dean.

vi. The Department Head shall be responsible for initiating meetings of the Promotion and Tenure Committee in order to ensure timely recommendations for promotion and tenure decisions in the Department and at the College level.

2. Associate Department Head

a. The appointment of the Associate Department Head is recommended to the Dean by the Department Head, in conjunction with the Advisory committee.

b. The term of the office of the Associate Department Head shall be four years, renewable at the discretion of the Department Head.

c. The duties of the Associate Department Head include:

i. Serve in the capacity of the Department Head whenever the Department Head is unavailable;
ii. Serve as the chair of the Advisory committee;
iii. Serve on the Student Evaluation committee;
iv. Administer teaching assistantships;
v. Administer MS Diagnostic Exam and PhD Qualifying Exam;
vi. Assign teaching schedules;
vii. Develop and coordinate summer internships;
viii. Function in the capacity of the Department Head in all matters delegated by the Department Head.

3. Academic Director of Online Programs

a. Is appointed by the Department Head.

b. The duties of the Academic Director of Online Programs include:

i. Prepare an annual budget for the online program;
ii. Chair the online M.S. admissions committee;
iii. Develop marketing plans for the online program;
iv. Supervise the online program’s staff;
v. Develop projects for online M.S. students;
vi. Be responsible for new initiatives in the online program.
4. **Academic Director of M.S. Analytics**
   a. Is appointed by the Department Head.
   b. The duties of the Academic Director of M.S. Analytics include:
      i. Oversee curriculum development and faculty teaching;
      ii. Manage all administrative aspects of the program: budgeting, strategic enrollment management, all student life cycle issues, and alumni affairs;
      iii. Faculty recruitment, hiring, and ongoing management;
     iv. Instructional support for faculty;
     v. Student advising;
      vi. Chair the admissions committee;
      vii. Interface with external organizations;
      viii. Plan and implement specific co-curricular and extra-curricular events as needed.

5. **Graduate Advisor**
   a. Is appointed by the Department Head.
   b. Chairs the Graduate Curriculum committee.
   c. Chairs the Graduate Student Admissions committee.
   d. The duties of the Graduate Advisor include:
      i. Advise graduate students;
      ii. Serve on university committees associated with graduate admissions, advising, and fellowships;
      iii. Administer graduate student fellowships;
      iv. Conduct an annual evaluation of graduate students’ advancement to their Ph.D.;
     v. Function in the capacity of the Department Head in all matters delegated by the Department Head.

6. **Undergraduate Advisor**
   a. Is appointed by the Department Head.
   b. Chairs the Undergraduate Curriculum committee.
   c. Chairs the Undergraduate Student Admissions committee.
   d. The duties of the Undergraduate Advisor include:
      i. Advise undergraduate students;
     ii. Serve on university committees associated with undergraduate admissions, advising, and fellowships;
      iii. Administer undergraduate scholarships;
      iv. Function in the capacity of the Department Head in all matters delegated by the Department Head.

C. **Faculty Meetings**
1. There will be at least six regular meetings of the Department faculty during the academic year. These regular meetings of the Department faculty shall be held at even intervals during the academic year. The Department Head shall distribute to the faculty an agenda for each regular meeting at least two days prior to the meeting.
2. The Department Head, or designee, shall preside at each meeting of the Department faculty.
3. Guests may be invited to meetings of the Department faculty by the Department Head or by a member of the Department faculty with concurrence of the Department Head.
4. The Department Head will ensure that accurate minutes of the meetings are preserved and that
a summary of the minutes is distributed to the faculty at a reasonable time following the meeting.

II. Faculty

A. New Faculty

1. Priorities for new faculty recruitment shall be discussed during a meeting of the Department faculty.

2. Tenured/tenure-track faculty positions shall be advertised nationally. Applicants shall be requested to supply a professional vita, along with a statement of research interests and teaching philosophy, and at least three letters of recommendation. All applicants received shall be reviewed by the Department Faculty Recruitment Committee and this committee will select a subset of all applicants for consideration by the faculty during a Department faculty meeting. The faculty shall then select which applicants to be invited for an on campus interview.

3. A Department faculty meeting shall be held to discuss the qualifications of all applicants making a campus visit. A faculty vote to select which applicant(s) will receive a position offer will be conducted after the discussion.

4. Appointments at the rank of Lecturer may be made by the Department Head with the concurrence of the Advisory Committee.

5. Appointments at the rank of Senior Professor, Senior Associate Professor, Instructional Professor, Instructional Associate Professor, Instructional Assistant Professor, and Senior Lecturer may be made by the Department Head upon recommendation of the P&T Committee.

6. Adjunct Faculty: Any voting faculty member may propose an adjunct faculty appointment. The candidate’s curriculum vitae must be distributed to the faculty. A discussion and vote on granting of the adjunct position will take place at the first faculty meeting following the distribution of the cv.

B. Visiting Faculty Appointments

1. Any member of the Faculty may recommend the appointment of visiting faculty members at the rank of Visiting Professor, Visiting Associate Professor, or Visiting Assistant Professor. The purpose of such appointments shall be to bring within the Department for a limited period of time scientists whose interactions with the faculty or students of the Department can be expected to benefit the Department with respect to research and/or teaching.

2. Visiting faculty appointments shall be for a period of no more than one year.

3. The decision on offering a visiting faculty position shall be made by the Department Head.

C. Faculty Leaves of Absence

1. Applications for sabbatical leaves shall ordinarily be submitted to the Department Head not later than nine months before the proposed leave.

2. A leave of absence shall be for a period of no more than one year.

3. If the sabbatical is for one semester, then the faculty member’s teaching load will be one course during the second semester of the sabbatical year.

4. Requests for short term leaves during a period in which classes are in session must be submitted to the Department Head.

5. Texas A&M University’s parental teaching load redistribution guideline is designed to provide flexibility in teaching obligations of faculty members who are the primary care givers to their newborn infant, or to their newly adopted infant or child. The Department Head will work with faculty to arrange one/two semester(s) of relief from formal classroom teaching or other time-rigid duties for the birth or adoption of a child for any eligible faculty member. Also, faculty may be granted leave in accordance with the Family and Medical Leave Act or any currently applicable state or federal law.
D. Instructional Faculty and Lecturers

An instructional faculty member (i.e., instructional professor, instructional associate professor, instructional assistant professor) or lecturer is a non-tenure track faculty member whose primary function is classroom teaching. The appointment of an instructional faculty member or lecturer is generally restricted to persons who possess a Ph.D. in statistics or related fields but in special circumstances, an M.S. will be acceptable. The term of initial appointment is one year; subsequent one-year appointments may be offered. Instructional faculty members and lecturers will be recruited by an open announcement of the position. The Department Head shall decide on whether to hire an instructional faculty member or lecturer.

There will not be a faculty vote on the hiring of instructional faculty members or lecturers.

1. The title of Instructional Professor, Instructional Associate Professor, Instructional Assistant Professor and Senior Lecturer is to be used for faculty who meet the criteria of Lecturer, and who have at least five years of experience as a Lecturer or its equivalent. Initial appointment to these ranks requires a recommendation of the Promotion and Tenure Committee, the Department Head, and approval of the Dean.

2. Instructional faculty members and Senior Lecturers will have annual appointments for at least the first three years, but will always receive 12 months’ notice if they are not to be reappointed.

3. Status, Expectations, and Professional Development

   a. Instructional faculty members and lecturers are members of the Department faculty and will be afforded the respect and status comparable to that of tenured and tenure track faculty.

   b. Instructional faculty members and lecturers will be included in all Departmental academic affairs, including faculty meetings, committee meetings, and curriculum development.

   c. Instructional faculty members and lecturers will be provided office space and the computer facilities necessary to fulfill their teaching responsibilities.

   d. Instructional faculty members and lecturers will be encouraged to initiate and/or participate in scholarly activities associated with all aspects of statistical education.

   e. Instructional faculty members and lecturers may apply for membership on the graduate faculty in accordance with OGAPS guidelines. An instructional faculty member or lecturer may serve as the chair of an MS student’s committee but not as the chair of a Ph.D. student’s committee.

4. Annual Review

   a. The performance of all Instructional faculty members and lecturers will be reviewed by the Department Head annually.

   b. Performance criteria will be based on teaching and related activities, with additional recognition given to publications and service.

   c. Based on annual reviews, instructional faculty members and lecturers may be recommended to the P&T Committee for promotion to Senior Lecturer, Instructional Assistant Professor, Instructional Associate Professor, or Instructional Professor.

III. Teaching

A. Academic Year Teaching Assignments

1. The teaching load for all tenured, tenure-track faculty will be three courses during the academic year during that period of their career when they are actively involved in research.

2. If a faculty member’s research effort is deemed by the Department Head to be inactive, the Department Head will modify the duties of the faculty member by increasing the teaching load to more than three courses per academic year and/or ask the faculty member to direct the M.S. projects for Online Learning students. Faculty members may initiate a discussion with the
Department Head concerning a change in title to Senior Professor or Senior Associate Professor if they do not intend to increase their research productivity. A change in title requires the Dean of Faculty’s approval.

3. Other exceptions to the standard teaching assignment are a two course per academic year assignment for Distinguished Professors, Associate Department Head, Academic Director of Online Programs, and Graduate Advisor. The Department Head is not expected to have teaching responsibility but may teach at his/her discretion. The Department Head, at his or her discretion, may also reduce the teaching load of regular faculty members by one course for exemplary service in attracting external grant funding, for the publication of seminal research, or for meritorious service as the chair of a departmental committee.

4. Senior Lecturers and Lecturers will teach three or more courses per semester during the academic year.

5. The Department Head, as part of the recruitment package, may reduce the teaching load for newly hired faculty. For example, Assistant Professors during the first two years of their appointment have a teaching load of two courses per academic year.

6. Faculty members may decide to reduce their teaching load by using grant money to buy out of a course. The rate to buy out a course for a faculty member who is the P.I. on a grant is the smaller of $28,500 and 2 months salary. The cost of a non-P.I. is the smaller of $28,500 and 3 months salary. This rate will be adjusted annually by the Department Head. The faculty member shall notify the Associate Department Head at least two months prior to the beginning of the semester so that adjustments may be made to the teaching assignments.

7. To facilitate preparation of course materials, teaching assignments shall normally be determined three months in advance of the assignment.

B. Departmental Summer Appointments

1. Prospective summer teaching positions shall be advertised to the Department faculty by the Associate Department Head.

2. Department faculty members shall apply for summer teaching appointments in writing to the Associate Department Head, in accordance with a time schedule announced by the Department Head.

3. Summer teaching appointments shall be made by the Associate Department Head. Priority in summer teaching opportunities will be given to Department faculty.

4. Certain activities such as the M.S. Diagnostic Examination and Ph.D. Qualifying Examination will require faculty participation during the summer. Faculty members who can comply without serious inconvenience may be called upon to perform such duties without additional compensation.

C. Distance Learning Teaching Assignments

1. The Department teaches a number of distance learning courses. The Distance Learning program provides a stipend to the instructor for teaching the two extra sections of the assigned course. This stipend is deposited into an account to be used by the instructor for professional development.

2. The Department offers a repeat of distance courses taught in the previous semester. The instructors for these courses do not provide the lecture for the course but create homework assignments, exams, conduct a weekly Q&A session, and monitor the discussion board. These duties are referred to as “minding the course”. The Distance Learning program provides one month of summer salary for minding a course. The selection of faculty to mind a course is made by the Associate Department Head and is an additional course which does not count towards the instructors three course teaching assignment.

D. Analytics Teaching Assignments

1. In conjunction with the Mays Business School, the Department offers a M.S. degree in Analytics. The courses are taught in Houston and online. The instructors for these courses are recruited
by the Academic Director of Online Programs. The instructors are paid a stipend which is in addition to their nine month salary.

2. The teaching of an Analytics course does not count towards the faculty member’s teaching assignment.

IV. Research Advising

A. Selection of Graduate Research Advisors

1. The selection of a graduate research advisor is one of the most important decisions that a graduate student will make. To assist students in making the decision, the faculty are encouraged to participate in Brown Bag seminars sponsored by the Statistics Graduate Student Association. Another avenue to assist the graduate students and the faculty in obtaining a productive matching of graduate student with advisor is the teaching of Special Topics courses. In these STAT 689 courses the student and faculty member are able to assess the capability of the student to conduct research and for the student to become familiar with the research interests of the faculty member. The faculty are encouraged to have a current webpage populated with information detailing their research program. The faculty are encouraged to present seminar talks in our department to expose interested students to the faculty member’s research interests.

2. OGAPS allows an Adjunct Professor in the Department of Statistics and any member of the graduate faculty at Texas A&M University to serve as a co-chair of M.S. and Ph.D. committees. The Chair of these committees must be a faculty member in the Department of Statistics.

3. The selection of a research advisor is a serious matter and usually it is expected that a student will remain with his/her chosen advisor for the duration of the degree program. However, in the rare case that a student may wish to change advisor, a petition in writing by the student to the Graduate Advisor shall be composed. The Graduate Advisor shall then provide the student with advice on making the change. The student is expected to select a new advisor prior to the start of the following semester.

B. Postdoctoral Appointments

All appointments at the postdoctoral level must be approved by the Department Head, regardless of the funding source. This requirement is normally satisfied via the employment documents which bear the Department Head’s signature. Appointment periods must be stated clearly on the appropriate employment documents.

C. Research Assistantships

Faculty wanting to support a research assistant shall notify the Associate Department Head at least two months prior to the beginning of the semester in which the support is provided if the proposed student is currently being supported as a teaching assistant (TA) or technology teaching assistant (TTA).

V. Committees

A. General Procedures

1. Service on Departmental committees is considered a normal part of each faculty member’s duties. All faculty members are encouraged to raise issues to be considered by any of the Department’s committees. Meetings of committees will be held only when a majority of the voting members of the committee are present. Unless otherwise stated, all committee members serve in a voting capacity.

2. The agenda for each meeting will be determined by the committee chair and a copy of the agenda should be distributed to members at least one day in advance of the meeting.
3. Except as otherwise noted, all committees will establish their own procedures, provided that the following conditions are met:
   a. Members of the Department concerned with an issue relevant to the committee shall be afforded an opportunity to present their views during a scheduled meeting of the committee.
   b. Any faculty member of the Department may make proposals to the committee in writing. Such proposals will normally be given consideration within two months.
   c. Each committee will establish procedures for receiving and considering proposals from undergraduate and graduate students as appropriate.
   d. Some committees include student representation. During discussions involving the evaluation of a particular student or faculty member, the student representative must be excused from the room in which the meeting is being held.

B. Departmental Committees

Unless otherwise stated in this document, departmental committees will be selected by the Department Head, with the proviso that at least one member of the committee shall serve a two-year term in order to provide continuity to the committee’s operations.

Advisory Committee - The purpose of the Advisory Committee is to review major departmental actions and make recommendations to the Department Head, and to serve as a resource for long-range planning and policy issues related to all activities, other than curriculum, in the Department.

Awards Committee - Solicits and reviews nominations of Department faculty members for College and University awards, and for professional society awards. Reviews applications and nominations for awards to Department graduate students.

Colloquia-Special Events Committee - Organizes and coordinates departmental colloquium and special seminars.

Endowed Positions Committee - Reviews applications and nominations for endowed positions

Faculty Recruitment Committee - Reviews applications and nominations for faculty positions

Graduate Admissions Committee - Reviews academic records and qualifications of prospective graduate students; Recommends to the Department Head students for admission.

Graduate Curriculum Committee - Establishes and reviews Departmental standards related to the graduate course requirements; review Departmental policies related to M.S. Diagnostic exam, Ph.D. Qualifying exam, and Ph.D. Preliminary exam; reviews faculty proposals for new graduate courses.

Graduate Service Committee - Periodically reviews the syllabi for graduate service courses.

Graduate Student Evaluation Committee - Constructs the Ph.D. Qualifying Exam which will be administered annually, two weeks after the end of Spring Semester. Reviews academic records and performance on the Ph.D. Qualifying Exam and makes a recommendation to the Department Faculty on which students shall be allowed to continue in the Ph.D. program. To facilitate student advising, the Graduate Advisor shall not be a member of this committee.

Post-Tenure Review Committee - Reviews instructional and research performance and professional activities of Full Professors; provides input to the Department Head on the performance of tenured Full Professors.

Promotion and Tenure Committee - Reviews instructional and research performance and
professional activities of Lecturers, Assistant and Associate Professors; advises Department Head on promotion, tenure, and appointment recommendations.

**Undergraduate Curriculum Committee** - Reviews curricula and requirements of undergraduate majors; plans modifications and improvements to the undergraduate program.

### C. Advisory Committee (AC)

1. The AC consists of eight members with at least one Lecturer, Assistant Professor, and Associate Professor serving on the committee. The chair of the AC is the Associate Department Head. The AC's members are either elected by the faculty or appointed by the Department Head.

2. The AC will establish a regular time for its meeting. The agenda for these meetings will be determined by the chair of the AC and will be posted several days prior to the meeting. It is expected that the AC will meet every month during the academic year and occasionally during the summer months as needed.

3. The purpose of the AC is to advise the Department Head and to serve as the Department Head's resource for long range planning and policy issues. The AC will represent the Department as a whole, keeping the Department Head informed of both current problems confronting the faculty as well as discussing directions for future development of the Department.

### D. Post-Tenure Review (PTR) and the PTR Committee

At least once every six years, an evaluation of each tenured faculty member is conducted by the Department of Statistics. This review is in addition to the annual reviews performed by the Department Head. The performance of each tenured faculty member will be evaluated with respect to teaching, research, and service.

1. Membership of the PTR Committee will consist of three elected members by vote of the Department's Full Professors and two members appointed by the Department Head.

2. The duties of the PTR Committee are as follows:
   a. Each tenured professor will be reviewed by the PTR Committee no less than once every six years.
   b. The PTR Committee will base their review on materials submitted by the reviewed faculty member and materials from the annual faculty reviews. The faculty member undergoing review may include materials other than those listed.
   c. The PTR Committee will recommend to the Department Head an evaluation of Satisfactory or Unsatisfactory for each tenured professor along with supporting documentation of their assessment. The assessment will be based on the criteria listed in Section VI.
   d. A vote of all five members is required.

3. If the report from the PTR Committee finds the faculty member at an unsatisfactory level in performance, a Professional Review will be initiated. The details for the Professional Review are in the Texas A&M University Post-Tenure Review document, 12.06.99.M0.01.

4. If a faculty member receives an unsatisfactory report from the annual evaluation by the Department Head for three consecutive years, the faculty member will be subject to the Professional Review as specified in the Texas A&M University Post-Tenure Review document, 12.06.99.M0.01.

### E. Promotion and Tenure Committee (P&T)


2. Membership consists of three faculty members appointed by the Department Head; three Full Professors elected by a majority vote of the entire tenured and tenure-track faculty; and one Associate Professor elected by a vote of the Assistant and Associate Professors. Elections are held during the first week of February. The P&T Committee chair is appointed by the Department Head. Faculty who have served three consecutive years will be removed from the ballot for the following two years.
3. The duties of the P&T Committee are as follows:
   a. Each spring the P&T Committee prepares a written evaluation of the progress of each of
      the non-tenured faculty members in tenure-track positions.
   b. A third-year review will be prepared for all non-tenured Assistant Professors in a tenure-track
      position.
   c. Each spring the P&T Committee prepares a written evaluation of the progress of each of
      the Associate Professors towards promotion to Full Professor.
   d. The Department Head does not participate in making the written evaluation but the
      Department Head will meet with each of the Assistant and Associate Professors to review
      the P&T Committee’s evaluation.
   e. The P&T Committee prepares a committee discussion report and recommendations for each
      candidate for promotion and/or tenure. The report shall follow the guidelines from the Dean
      of Faculties.
   f. The P&T Committee shall prepare guidelines on the procedures required of candidates for
      tenure and promotion. These guidelines shall be distributed to all faculty holding the rank
      of Lecturer, Assistant Professor, and Associate Professor.
   g. The P&T Committee will consider for emeritus status every individual who, at the time of
      retirement, holds a tenured appointment in the department and has served the university at
      least ten years unless the in faculty member requests in writing that he/she not be so
      considered. Individuals who are non-tenured or who have served less than ten years may also be
      considered.

4. A vote of all seven members is required for promotion and tenure decisions.

VI. Faculty Evaluation

The evaluation of faculty in the Department of Statistics is the responsibility of the Department Head. The Department Head solicits advice from Departmental committees in the evaluation of the performance of the faculty.

A. Procedures

1. Annual Review: Each year the department, in accordance with the University Statement on
   Academic Freedom, Responsibility, Tenure, and Promotion (SAFRT), will carry out an annual
   review of all faculty in the ranks of Lecturer, Senior Lecturer, Instructional Assistant Professor,
   Instructional Associate Professor, Instructional Professor, Senior Associate Professor, Senior Full
   Professor, Assistant Professor, Associate Professor, and Full Professor. The review will follow the
   form contained in the SAFRT with the following clarifications:

   i. The criteria to be used in the evaluation process are contained in Section B.
   ii. The annual review will take place during the Spring semester.
   iii. The faculty shall submit the department’s Annual Report Form detailing their activities for the
        previous calendar year with respect to research, teaching, and service.
   iv. The Department Head shall provide every faculty member a written report detailing the
       Department Head’s assessment of their performance in the areas of teaching, research, and
       service.
   v. The Department Head will also meet with each Assistant Professor and Associate Professor
       to discuss their performance and progress towards tenure and promotion. Any of the
       remaining faculty may request a meeting with the Department Head to discuss the written
       summary of their performance.
   vi. If a faculty member wishes to disagree with anything contained in the Department Head’s
       written report, he/she may append a written comment to the report.
   vii. If a faculty member’s annual evaluation by the Department Head results in an Unsatisfactory
for three consecutive years, the faculty member will be subject to the Professional Review as specified in the Texas A&M University Post-Tenure Review document, 12.06.99.M0.01.

2. Promotion and Tenure: The P&T Committee is responsible for advising the Department Head on promotion and tenure decisions.

   See Section V, subsection E of this document.

3. Post Tenure Review: At least once every six years, an evaluation of each tenured faculty member is conducted by the Department of Statistics. The PTR Committee is responsible for providing the Department Head the post tenure review of all tenured faculty members. The PTR Committee shall focus on the faculty member's performance during the past two years but will also take into account achievements over a longer period and work in progress. The PTR Committee will recommend to the Department Head an evaluation of Satisfactory or Unsatisfactory for each faculty member under review along with supporting documentation of their assessment. If the report from the PTR Committee finds the faculty member at an Unsatisfactory level in performance, the faculty member will be subject to Professional Review as specified in the Texas A&M University Post-Tenure Review document, 12.06.99.M0.01.

B. Evaluation Scores

The PTR committee will evaluate the research, teaching, and service performance of every tenured faculty member at least once every six years. The Department Head will evaluate every faculty member during the spring semester of every year. The evaluations will be designated as Superior, Satisfactory, or Unsatisfactory.

For purposes of Post Tenure Review, the Department Head and PTR committee shall rate faculty members at one of three levels of performance in each of the three categories of research, teaching, and service, as shown below:

<table>
<thead>
<tr>
<th>Research</th>
<th>Teaching</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Superior</td>
<td>Superior</td>
<td>Superior</td>
</tr>
<tr>
<td>2. Satisfactory</td>
<td>Satisfactory</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>3. Unsatisfactory</td>
<td>Unsatisfactory</td>
<td>Unsatisfactory</td>
</tr>
</tbody>
</table>

The ratings for research, teaching, and service would then be combined to give an overall assessment of Satisfactory or Unsatisfactory as follows:

Rule 1: If research is unsatisfactory, then the overall rating is unsatisfactory.

Rule 2: If teaching is unsatisfactory, then research must be superior to obtain an overall satisfactory, otherwise the overall rating is unsatisfactory.

Rule 3: If service is unsatisfactory for one year, then the Department Head will specify corrective action that must be taken to achieve a satisfactory rating. If service is unsatisfactory for two years (not necessarily in succession), then the Department Head may, at his or her discretion, provide an overall rating of unsatisfactory.

The criteria for the determination of the ratings in research, teaching, and service are described in the next section.

Criteria for Determination of Performance Ratings

1. Research Evaluation: The evaluation of research is mainly based on original scientific research and the publication of the results of such research. By its very nature, the evaluation of research is subjective, and the period over which research productivity is evaluated also depends on the outcome of the research. For example, the publication of a research volume may require two or more years, and
articles published in leading statistical journals may sometimes have less impact than articles published in more general scientific outlets. In general, however, the following guidelines are to be used in evaluating research; the time frame over which these criteria are applied is typically one or two years, depending on the nature of the work and the publication times of targeted journals.

**Superior - Achieve several of the following:**

- Publications in leading refereed statistics journals or leading refereed journals in allied fields
- Receiving significant external peer-reviewed funding for research
- Frequent citation of publications
- Publication of scholarly book(s)
- Selection for a University, College of Science, or professional society outstanding researcher award
- Publications and funding resulting from collaborative effort with leading researchers in other fields

**Satisfactory - Achieve several of the following:**

- Publications in refereed journals
- Publication of a chapter in a scholarly book
- Presentation of invited and contributed papers at international and national meetings
- Publications in refereed proceedings of conferences and professional meetings
- Significant self-development activities that lead to increased research and publication effectiveness
- Publications and funding resulting from collaborative effort with researchers in other fields

**Unsatisfactory**

- Not achieving a superior or satisfactory rating

2. **Teaching Evaluation:** The evaluation of teaching includes classroom instruction; development of new courses and teaching methods; publication of innovative pedagogical approaches or instructional materials, including textbooks; and supervision of graduate student research. The following factors may be used to evaluate the level of teaching performance.

**Superior - Achieve several of the following:**

- Selection for a University, College of Science, or professional society outstanding teaching award
- Chair of doctoral research committees
- Evidence of courses taught at a rigorous and challenging level
- Publication of widely adopted or acclaimed instructional material
- Outstanding teaching performance as evidenced by outstanding teaching evaluations
- Development of innovative pedagogical methods and materials
- Development of new courses or major revision of existing courses
- Extraordinary service on graduate student advisory committees
- Publications in refereed education journals
- Evidence of high quality in class preparation, interaction with students, and lectures

**Satisfactory - Achieve several of the following:**

- Chair of M.S. committees
- Member of graduate student advisory committees
- Evidence of quality in class preparation and interaction with students
• Effective coordination of multi-section courses
• Serve as Departmental undergraduate or graduate advisor
• Significant self-development activities leading to enhanced teaching effectiveness

**Unsatisfactory**

• Continuing or repeated substantial neglect of teaching responsibilities

3. **Service Evaluation:** The evaluation of service includes service to the students, Department, Texas A&M University, and service to professional societies, research organizations, governmental agencies, and the public at large.

**Superior - Achieve superior performance in several of the following:**

• Officer in a national professional organization
• Serving on a major government commission, task force, or board
• Administrative leadership role at University, College, or Department level
• Editor or member of editorial board of major journal
• Member of review panel for national research organization
• Program chair at a national meeting
• Officer in Faculty Senate
• Chair of major Departmental or Texas A&M University committee
• Substantial fund raising to support Departmental activities
• Member of review panel for national research organization
• Obtain positive state, regional, or national recognition for the department

**Satisfactory - Achieve excellent performance in several of the following:**

• Officer in regional or state professional organization
• Program or committee chair for regional or state professional meeting
• Serving as an active member of the Faculty Senate
• Serving on University, College of Science, or Departmental committee
• Serving as consultant to business or governmental agencies
• Advisor to student organizations
• Administrative roles with the Department
• Director of the Department’s consulting and internship efforts
• Participating in department’s outreach to industry and continuing education activities
• Service as a reviewer for major refereed journals
• Organizer of a session at a national meeting
• Regularly attend Departmental seminars and faculty meetings
• Participate in departmental activities, such as, recruitment of new faculty and students, attend departmental functions outside of the normal business hours, etc.
• Organizing Departmental research workshop

**Unsatisfactory**

• Continuing or repeated substantial neglect of service responsibilities Behavior that is deemed by the Department Head and a majority of the Post Tenure Review Committee as being detrimental to the collegial atmosphere and working environment within the Department.
VII. **Amendment of Bylaws**
Amendments to these bylaws may be initiated by either the Department Head or by the petition of twenty-five percent of the Departmental faculty. To be adopted, an amendment must be approved by a two-thirds majority of the Departmental faculty.

VIII. **Conflict between Bylaws and Other Regulations**
Should any part of these Bylaws be in conflict with regulations of the Texas A&M System, Texas A&M University, College of Science, State of Texas, or the United States of America, those regulations take precedence over the Department of Statistics Bylaws.

IX. **History of Bylaws**
- Accepted By Faculty Vote on March 23, 2015
APPENDIX L.

Faculty Biographical Sketches
DERYA GÜVEN AKLEMAN

Education:
- Texas A&M University  Agricultural Economics  Ph.D. (1996)
  (Marketing & Econometrics)

Appointments:
- Visiting Assistant Professor  Dept. of Statistics, Texas A&M University  Spring 1998-Fall 2002
- Lecturer  Dept. of Statistics, Texas A&M University  Fall 2002-Fall 2008
- Senior Lecturer  Dept. of Statistics, Texas A&M University  Fall 2008-present

Teaching:
- Last five years:
  1. Stat 653: Statistics in Research III, In class and online (three sections, every Spring), Spring 2012-present
  2. Stat 652: Statistics in Research II, In class and online (three sections, every Fall and Spring), Spring 2006-present
  3. Stat 651: Statistics in Research I, In class and online (three sections, every Fall and Spring), Spring 2001-present
  4. Stat 642: Methods in Statistics II, online (three sections), Summer 2011
- Other TAMU courses thought before:
  1. Stat 211: Principles of Statistics I, Fall 2000,01,02,03,04; Spring 2002,03,04,05; Summer 2000,01,02,03

Noteworthy Publications:

University and Department Service:
- Last nine years:
  1. Member, Department of Statistics Faculty Advisory Committee (April 2014-present)
  2. Member, College of Science Diversity Committee, Texas A&M University (Fall 2008-Present)
  3. Member, Faculty Senate, Texas A&M University (Fall 2006-Fall 2012, Fall 2014-present)
  4. Member, Diversity Committee (now called Workplace, Climate and Diversity) of Faculty Senate, Texas A&M University (Fall 2007-Fall 2012, Fall 2014-present)
  5. Member, College of Science Caucus, Faculty Senate, Texas A&M University (Fall 2006--Fall 2012, Fall 2014-present)
6. Member, Academic Affairs Committee, Faculty Senate, Texas A&M University (Fall 2006-Fall 2011)
7. Leader, College of Science Caucus, Texas A&M University (Fall 2007-Fall 2008)
8. Member, Personal and Welfare Committee, Faculty Senate, Texas A&M University (Fall 2006-Fall 2007)

Membership:
American Statistical Association, 1990-present

Honors (Chosen by students):
The Physicians Centre Hospital Guest Coach, Fall 2008

Grants awarded:
Last five years:
1. Texas A&M University, College of Science, Diversity and Climate Initiatives, $15000, Fall 2013-Fall 2014
2. Texas A&M University, College of Science, Diversity and Climate Initiatives, $15000, Fall 2012-Fall 2013
3. Texas A&M University, College of Science, Diversity and Climate Initiatives, $15000, Fall 2010-Fall 2011

Student committee membership:
Last five years:
Nayab Ali    MS in STAT
Elizabeth Goldman    MS in Math
Ashley Schnoor    MS in Math
Nancy Okeudo    MS in Math
Mark Chapman    MS in Math
Jay Clawson    MS in Math
Matthew Austin    MS in Math
Craig Sullivan    MS in Math
Jason Mahaffey    MS in Math
Madhuri Sanagaram    MS in INEN    (Graduated Spring 2014)
Lisa C. Obrien    MS in MATH
Erika Pesek    MS in MATH
Lorenzo Gordon    MS in MATH
Joel T. Ward    MS in MATH    (Graduated Spring 2014)
Radhika Sundararaman    MS in INEN    (Graduated Spring 2014)
Julie Sarzynski    MS in MATH
Ashley Hubble    MS in MATH    (Graduated Summer 2014)
Joshua Wilkerson    MS in MATH
Rebekah Zimmermann    MS in MATH
Lisa Beatty    MS in Math    (Graduated Spring 2014)
Ahlam Mohamad Musa    Ph.D in EDUCATION    (Graduated Spring 2013)
Karevaradharaj Doraivswamy Selvaraj    MS in INEN    (Graduated Fall 2012)
Eduardo Drucker    MS in MATH    (Graduated Fall 2013)
Stephen Dauphin    MS in MATH    (Graduated Spring 2013)
Susan Powell    MS in MATH    (Graduated Fall 2012)
Chanin L. Monesterio    MS in MATH    (Graduated Fall 2012)
Mark McKinnon    MS in MATH    (Graduates Spring 2014)
Kathryn Lemons    MS in MATH    (Graduated Summer 2012)
Suzanne Fluke    MS in MATH    (Graduated Spring 2013)
Jason Daniel Tepe    MS in MATH
Janessa Kathleen Tucker    MS in MATH    (Graduated Spring 2012)
Meghan Waterbury    MS in MATH    (Graduated Fall 2012)
Gail Faith Thorne    MS in MATH    (Graduated Spring 2013)
David Lee Fleeager    MS in MATH    (Graduated Summer 2013)
Sarah Evangeline    MS in MATH
Zachary Dean Adian    MS in MATH
Scott Harold Copperman    MS in MATH    (Graduated Spring 2013)
Janell Christine (Eck) Martin    MS in MATH    (Graduated Spring 2013)
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Graduation Date</th>
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<tbody>
<tr>
<td>Bradley Keith Scott</td>
<td>MS in MATH</td>
<td>(Graduated Fall 2011)</td>
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<tr>
<td>Stephanie Gail Nite</td>
<td>MS in MATH</td>
<td>(Graduated Summer 2012)</td>
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<td>Janessa Kathleen Tucker</td>
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<tr>
<td>Teo J. Paoletti</td>
<td>MS in MATH</td>
<td>(Graduated Fall 2010)</td>
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<tr>
<td>Michael Vieira Serpa</td>
<td>MS in MATH</td>
<td>(Graduated Fall 2011)</td>
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<tr>
<td>Michael Kenneth Soper</td>
<td>MS in MATH</td>
<td>(Graduated Spring 2011)</td>
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<tr>
<td>Jennifer Kristi Ulrich</td>
<td>MS in MATH</td>
<td>(Graduated Spring 2011)</td>
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<td>Scott Harold Copperman</td>
<td>MS in MATH</td>
<td>(Graduated Spring 2013)</td>
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<td>Janell Christine Eck</td>
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<td>Camellia Blackbery</td>
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<tr>
<td>Ebru Celile Ozbay</td>
<td>MS in MATH</td>
<td>(Graduated Spring 2011)</td>
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<tr>
<td>Christopher M. Golubski</td>
<td>MS in MATH</td>
<td>(Graduated Fall 2010)</td>
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<tr>
<td>Rodney Dale Wyrick</td>
<td>MS in MATH</td>
<td>(Graduated Summer 2010)</td>
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<td>Thomas Andrew Moseider</td>
<td>MS in MATH</td>
<td>(Graduated Spring 2011)</td>
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<tr>
<td>Rudy C. Medina</td>
<td>MS in MATH</td>
<td>(Graduated Spring 2011)</td>
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<tr>
<td>Cynthia Lucille Bervig</td>
<td></td>
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</tr>
<tr>
<td>Betsy McIver G Jones</td>
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<tr>
<td>Daniel J. Groom</td>
<td>MS in MATH</td>
<td>(Graduated Fall 2010)</td>
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<td>Joshua Dustin D. Hammond</td>
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<td>Scott T. Dickie</td>
<td>MS in MATH</td>
<td>(Graduated Summer 2010)</td>
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<tr>
<td>Kurt Michael Bruggeman</td>
<td>MS in MATH</td>
<td>(Graduated Spring 2010)</td>
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<tr>
<td>Damon McDaniel</td>
<td>MS in MATH</td>
<td>(Graduated Fall 2010)</td>
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<tr>
<td>Richard Uber</td>
<td>MS in MATH</td>
<td>(Graduated Summer 2010)</td>
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<tr>
<td>Alexander Munson</td>
<td>MS in MATH</td>
<td>(Graduated, Summer 2009)</td>
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<tr>
<td>Sarah Martin Luther</td>
<td>MS in MATH</td>
<td>(Graduated, Fall 2009)</td>
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<tr>
<td>Diana Wright Branton</td>
<td>MS in MATH</td>
<td>(Graduated, Summer 2009)</td>
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<tr>
<td>Yanjing Liu</td>
<td>MS in MATH</td>
<td>(Graduated, Summer 2009)</td>
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<tr>
<td>April Lile Carne</td>
<td>MS in MATH</td>
<td>(Graduated, Fall 2009)</td>
</tr>
<tr>
<td>Ryan Albert Melbard</td>
<td>MS in MATH</td>
<td>(Graduated, Spring 2009)</td>
</tr>
</tbody>
</table>
ANIRBAN BHATTACHARYA

Education:
Indian Statistical Institute, Kolkata, India  Statistics  B.S. (2006)
Indian Statistical Institute, Kolkata, India  Statistics  M.S. (2008)

Appointments:
Assistant Professor  Texas A&M University  2013 – Pres.
Postdoctoral Associate  Duke University  2012–2013

Publications:

Grants:

Awards and Honors:
1. Leonard J. Savage Dissertation Award (Theory and Methods) 2012, awarded by the International Society for Bayesian Analysis (ISBA)
2. Student paper award from Section of Bayesian Statistical Science (SBSS), 2011
3. Member of Editorial Boards:
Service:

1. Session chair, Joint Statistical Meetings, Montreal, Canada, 2013


6. Member of PhD qualifying exams committee, Department of Statistics, Texas A&M University, 2014 - Pres.
JULIE HAGEN CARROLL

Education:
Texas A&M University  Mathematics   B.S. (1979)
Texas A&M University  Industrial Engineering  M.S (1985)
Texas A&M University  Statistics   M.S. (1990)

Appointments:
Lecturer  Department of Statistics, Texas A&M University  1992-1999
Senior Lecturer  Department of Statistics, Texas A&M University  1999-Pres.

Course Taught:
STAT 303  200+ undergraduates both Fall and Spring  1992-Pres.

Service:
Undergraduate Service Committee
Assistantship Duties Committee
Corps of Cadet Academic Advisor for Company F-2

Awards:
TAMU Fish Camp Namesake
TAMU Association of Former Students College Level Teaching Award
RAYMOND J. CARROLL

Education:
University of Texas at Austin Mathematics B.S. (1971)
Purdue University Statistics Ph.D. (1974)

Appointments:
Distinguished Professor and Harlin Chair Department of Statistics, TAMU 1987–1998 and 2000-present
Professor and Fairhill Chair Department of Epidemiology University of Pennsylvania, 1998-2000
Assistant, Associate and Full Professor University of North Carolina 1974-1987

Publications:
1. Last five years, selected from 87 papers, 2010-present


ii. Other Noteworthy Publications:


Grants in last five years:


4. National Science Foundation, co-investigator on *Bayesian Data Mining Approaches for Biological Threat Detection* (B. Mallick, P.I.), 2009-2012.

Awards and Honors (Selected):

1. Gottfried E. Noether Senior Scholar Award and Lecture, American Statistical Association, 2014

2. Elected Fellow, American Association for the Advancement of Science, 2014.
5. Fisher Award and Lecture, 2002 (from COPSS)
6. Outstanding Achievement Award for Promoting Diversity, Texas A&M University, 1996.
8. COPSS Presidents’ Award (IMS, ASA, ENAR, WNAR, CSS), 1988.
9. 13 named lectures at universities

Service (Selected):
3. Founding Chair, NIH Study section on Biostatistics (BMRD), 2002-2004.

Students Supervised (From 43):
8. Veerabhadran Baladandayuthapani (June, 2005). Bayesian methods in Bioinformatics. Associate Professor, University of Texas M. D. Anderson Cancer Center.
9. Yehua Li (June, 2006). Functional data analysis in biology. Associate Professor, Iowa State University.

Post-Docs Supervised (From 19):
1. Helmut Küchenhoff, Professor, University of Munich
2. Danh V. Nguyen, Professor, University of California at Irvine
3. Ana-Maria Staicu, Assistant Professor, North Carolina State University
4. Anindya Bhadra, Assistant Professor, Purdue University
5. Tanya Garcia, Assistant Professor, Texas A&M School of Public Health

3
WILLA W CHEN

Education:

Appointments:
Professor  Department of Statistics, Texas A&M University  2012 – Present
Associate Professor  Department of Statistics, Texas A&M University  2007-2012
Assistant Professor  Department of Statistics, Texas A&M University  2001-2007
Postdoc  Watson Research Center, IBM  2000-2001

Publications:

i. Last five years:


ii. Other Noteworthy Publications:


**Grants in last five years:**

i. Last five years:

1. National Science Foundation, $143,047, "Restriction likelihood in time series: Applications to moderate and near integrated autoregressions, cointegration, panel data and nonlinear time series", 2010-2014.

ii. Other Noteworthy Grants:


**Editorial Work:**

Member of Editorial Boards:


**Students Supervised:**

Priya Kohli (2012), Ph.D (Co-advised with M. Pourahmadi)
DAREN B.H. CLINE

Education:
- Harvey Mudd College: Mathematics, B.S. (1978)

Appointments:
- Professor: Department of Statistics, Texas A&M University 2002–2015
- Assoc. Professor: Department of Statistics, Texas A&M University 1990–2002
- Visiting Research Asst. Prof.: Center for Stochastic Processes, Univ. of North Carolina 1986
- Visiting Assistant Prof.: Department of Statistics, University of British Columbia 1983–1984

Publications:

i. Last Five Years:

ii. Other Noteworthy Publications:

Research Grants:

i. Last Five Years:

ii. Other Noteworthy Grants:

Awards and Honors:
2. The Association of Former Students Distinguished Teaching Award, College of Science, Texas A&M University.
Selected National, University and Department Service:
1. Promotion and Tenure Committee, Department of Statistics (various).
2. Graduate Curriculum Committee, Department of Statistics (various).
5. Faculty Grievance Committee, College of Science (2001–2004).

Students Supervised:

i. Ph.D.:
1. (2014) Bo Wei (Co-chair with Sila Çetinkaya, Industrial and Systems Engineering), *Stochastic Clearing Models with Applications in Shipment Consolidation*.

ii. Most Recent M.S.:
1. (2013) Steven Jackson
2. (2012) Kaitlin Olmstead
3. (2008) Jie Li
6. (2004) Bo Li
ALAN DABNEY

Education:
University of Texas at Arlington        Mathematics        B.S. (1999)
University of Washington                Biostatistics       M.S. (2001)

Appointments:
Associate Professor        Department of Statistics, Texas A&M University        2011-Pres.
Assistant Professor          Department of Statistics, Texas A&M University        2006-2011

Publications:

i. Last five years:

ii. Other Noteworthy Publications:

Grants in last five years:

i. Last five years:

ii. Other Noteworthy Grants:
Awards and Honors:
1. TAMU Distinguished Achievement College-Level Award in Teaching from the Association of Former Students (2011).
2. TAMU College of Science Montague-Center for Teaching Excellence Scholar (2009).

Service:
1. 2014 Member, Undergraduate Program Committee, TAMU Department of Statistics.
2. 2012-2014 Member, M.S. Qualifying Exam Committee, TAMU Department of Statistics.
3. 2012 Member, Selection Committee, The Association of Former Students’ College-Level Teaching Awards.
4. 2012 Member, External Advisory Board, TAMU AgriLife Genomics and Bioinformatics Services (TAGS) Core.
5. 2011-2014 Member, TAMU Undergraduate Academic Appeals Panel.

Students Supervised:

Ph.D. Students:

Robyn Ball (2013), Ph.D., Texas A&M University
Dissertation: Statistical Methods for High-Dimensional Biological Data.

Xuan Wang (2011), Ph.D., Texas A&M University
Dissertation: Statistical Methods for the Analysis of Proteomics Data.

Post-Docs:

Carmen Tekwe, Texas A&M University, 2011-2013.

Yuliya Karpievitch, Texas A&M University, 2007-2010.

M.S. Students:

More than 15 M.S. students supervised, including many students in the Distance Learning program.
PAUL FREDERICK DAHM

Education:
Iowa State University Distributed Studies (minors in Mathematics, Statistics & Physics) B.S. (1973)
Iowa State University Statistics M.S. (1977)
Iowa State University Statistics Ph.D. (1979)

Appointments:
Professor Department of Statistics, Texas A&M University 1993-present
Graduate Advisor Department of Statistics, Texas A&M University 1989-2014
Associate Professor Department of Statistics, Texas A&M University 1985-1993
IPA/Visiting Statistician Biostatistics Branch, National Cancer Institute 1988-1989
Assistant Professor Department of Statistics, Texas A&M University 1979-1985

Publications:
i. Last five years: None
   ii. Manuscripts in revision or preparation:

Grants in last five years:
i. Last five years: None
ii. Other Noteworthy Grants:

Awards and Honors:
1. Texas A&M Association of Former Students College of Science Teaching Award (1992)
3. Texas A&M Association of Former Students Distinguished Achievement Award in Student Relations (2001)

Service:
Sessions Organized and Work at National and International Meetings:

Students Supervised: (Listings are for Ph.D. Committees Chaired or Co-chaired only)
Yoshihiko Tsukuda (1985) (Chair)

Ed Miller (1987) (Co-chair)
Dissertation: Inference for the Parameters of the Complete Symmetry Covariance Structure Model.

Jong-Duk Kim (1989) (Chair)
Kyung Chang (1990) (Chair)

Mahinda Karunaratne (1991) (Chair)

Anne Coleman (1995)
Dissertation: Variance Components Estimation with Missing Cells.

Fayez Abdul-Salam (1995) (Chair)

Tony White (1998) (Chair)

Ann Olmsted (1999) (Chair)
Dissertation: Algorithms Using Chi-squared and Other Goodness of Fit Tests to Identify a High-expectation Subset of Independent Poisson Random Variables, or a Subset of Multinomial Cells Having Relatively High Probabilities, with Applications in Chromosomal Fragile Site Identification.

Dan Gaile (2003) (Chair)
Dissertation: Development of Statistical Tools with Applications in Radiation Hybrid and Linkage Mapping.

Chris Hintze (2005) (Chair)
Dissertation: Modeling Correlation in Binary Count Data with Application to Fragile Site Identification.

Ming Lu (2014) (Chair)
Dissertation: Investigation of Simple Linear Measurement Error Models (SLMEMs) with Correlated Data.

Rupa Kanchi (2014) (Co-chair)
Dissertation: Recombination Studies and Development of QTL-targeted Tiled Introgression Libraries by Marker Assisted Backcrossing Across Four Maize Chromosomal Segments.
JEFFREY D. HART

Education:
B.S., Mathematics, Southern Methodist University (1977)
M.S., Statistics, Southern Methodist University (1979)
Ph.D., Statistics, Southern Methodist University (1981)

Appointments:
Adjunct Professor
Department of Biostatistics, M.D. Anderson Cancer Center 2007-

Visiting Professor
Department of Statistics, Limburgs Universitair Centrum 1997-98

Professor
Department of Statistics, Texas A&M University 1994-

Research Fellow
Statistics Research Section, Australian National University 1989

Visiting Adjunct Associate Professor
Department of Statistics, North Carolina State University 1989

Visiting Associate Professor
Institut für Wirtschaftstheorie II, Universität Bonn 1988

Associate Professor
Department of Statistics, Texas A&M University 1988-94

Assistant Professor
Department of Statistics, Texas A&M University 1982-88

Assistant Professor
Department of Mathematics, University of Arkansas 1981-82

Publications:
i. Last five years:


ii. Other Noteworthy Publications:


Grants:

i. Last five years:


ii. Other Noteworthy Grants:

1. National Science Foundation, $97,000, “Cluster-Based Bootstrapping in Multiple Hypotheses Testing,” 2006-2009. (Sole P.I.)

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**Awards and Honors:**

1. Fellow of the Institute of Mathematical Statistics, 1994

2. Texas A&M University College of Science Distinguished Achievement Award in Teaching, 1995


4. Don Owen Award, 2007

5. Member of Editorial Boards:

6. Visiting Scholar:
   - Department of Applied Mathematics and Statistics, Colorado School of Mines (November 2013)
   - Department of Statistics, Limburgs University, Diepenbeek, Belgium (May 1999, June 2001)
   - Departamento de Matemáticas, Universidade da Coruña, La Coruña, Spain (February 1998)
   - Institut de Statistique, Université catholique de Louvain, Louvain-la-Neuve, Belgium (December 1997)

**Service:**


2. Chair, ASA Section on Nonparametrics, 2005.


**Ph.D. Students Supervised (8 most recent of 21):**


2. Ying Sun (2011) “Inference and Visualization of Periodic Sequences.” (Co-chair with Marc Genton)


KEITH HATFIELD

Education:
University of Texas – Arlington BBA – Operations Research (1978)
North Texas State University MBA – Operations Research (1980)

Professional Experience
Hatfield Consulting Group Principal – 1996 to present

Appointments:
Lecturer Department of Statistics, TAMU, Fall 2005 – present

Publications:
None

Grants in last five years:
None

Awards and Honors:
None

Service:
Coordinator of STAT 211 – Spring 2013 – present
JIANHUA HUANG

Education:
University of California at Berkeley Statistics Ph.D. (1997)
Beijing University, China Probability and Statistics M.A. (1992)
Beijing University, China Probability and Statistics B.A. (1989)

Appointments:
Professor Department of Statistics, Texas A&M University 2008-Present
Associate Professor Department of Statistics, Texas A&M University 2005-2008
Assistant Professor Department of Statistics, University of Pennsylvania 1997-2004

Research Expertise:
Statistical learning, regularization methods, multivariate and high-dimensional data analysis, functional and longitudinal data analysis, nonparametric and semiparametric methods, statistics application in astronomy, biology, business, economics and engineering

Publications:

1. Last five years: (selected from 48 refereed journal publications)


ii. Publications Before 2010: (selected from 28 refereed journal publications)


**Grants in last five years:**

i. Last five years:


4. King Abdullah University of Science and Technology (2012-2015), $275,000, “Computational and Statistical Approaches for Protein Structure Prediction and Determination,” (co-PI; PI: Xin Gao)
5. Institute for Applied Mathematics and Computational Science, Texas A&M University (2011-2012), $25,000, “Nonparametric Probabilistic Approach for Modeling the Local Protein Structure”, (PI)

ii. Other Noteworthy Grants:
1. National Science Foundation (2009-2010), $10,000, “Conference on Statistical Methods for Complex Data” (PI)

Awards and Honors:
2. Fellow of the American Statistical Association
3. Fellow of the Institute of Mathematical Statistics

Service:
1. Member of National Science Foundation Review Panel, multiple times
2. Referee for more than 30 journals
4. Member of the Organizing Committee for “Conference on Resampling Methods and High Dimensional Data,” College Station, March 25-26, 2010
5. Member of the Organizing Committee for “Conference on Statistical Methods for Complex Data,” College Station, March 14, 2009

Ph.D. Students Supervised:
Past Students (14):

Current Students (6):
Bohai Zhang, Nan Zhang, Senmao Liu, Ya Su, Shiyuan He, Kejun He.

Post-Docs Supervised:
Mehdi Maadooliat (2011-2013; Marquette University), Ganggang Xu (2012-2014; Binghamton University)
VALEN E. JOHNSON

Education:
University of Texas at Austin Applied Mathematics M.S. (1985)

Appointments:
Head Department of Statistics, Texas A&M University 2014-Pres.
Professor Department of Statistics, Texas A&M University 2012-Pres.
Ad Interim Division Head Division of Quantitative Sciences, MD Anderson Cancer Center 2011-2012
Deputy Chairman Department of Biostatistics, MD Anderson Cancer Center 2007-2010
Professor Department of Biostatistics, MD Anderson Cancer Center 2004-2011
Adjunct Professor Department of Statistics, Texas A&M University 2007-2011
Adjunct Professor Department of Statistics, Texas A&M University 2004-2011
Technical Staff Member Los Alamos National Laboratory 2001-2002
Professor Institute of Statistics and Decision Sciences, Duke University 2000-2003
Adjunct Professor Department of Statistics, University of North Carolina 1999-2002
Director of Graduate Studies Institute of Statistics and Decision Sciences, Duke University 2000-2001
Associate Professor Institute of Statistics and Decision Sciences, Duke University 1993-2000
Director of Undergraduate Studies Institute of Statistics and Decision Sciences, Duke University 1995-1999
Assistant Professor Institute of Statistics and Decision Sciences, Duke University 1989-1993

Publications:
i. Last five years (selected from 37 publications):


**Grants in last five years:**

i. Last five years:


ii. Other Noteworthy Grants:

Awards and Honors:

1. Fellowships:
   Elected member of the International Statistical Institute (ISI)
   Fellow of the American Statistical Association
   Fellow of the Royal Statistical Society

2. Member of Editorial Boards and Award Committees:
   Co-Editor, Bayesian Analysis, 2010-2014
   Associate Editor, Bayesian Analysis (2006-2010)
   Associate Editor, IEEE Transactions on Medical Imaging, 1993-2002
   Chair, Lindley Award Committee, 2008
   Chair or Member, Savage Award Committee, 2004-2007
   Treasurer, International Society for Bayesian Analysis, 1998-2001
   Savage Award for Outstanding Thesis in Bayesian Statistics and Econometrics, 1989

Doctoral Students Supervised:

6. Adarsh Joshi, “Bayesian Model Selection for High-Dimensional High-Throughput Data,” Department of Statistics, Texas A&M University, 2010 (while a faculty member at M.D. Anderson Cancer Center).
EDWARD R. JONES

Education:
Texas A&M University – Commerce  Computer Science  B.S. w/honors (1972)

Appointments:
2010-Pres   Executive Professor  Dept. of Statistics, Texas A&M University
2008-2010  Senior Statistician  Stata, Inc., College Station, TX
2002-2008  Senior Statistical Advisor  Visual Numerics, Inc., Houston, TX
1985-1989  Vice President  Jones Reilly & Assoc., Cupertino, CA
1984-1985  Dir. of Consulting  Enhansys, Inc., Cupertino, CA
1977-1984  Senior Statistician  Chevron Research Company, Richmond, CA
1975-1977  Asst. Professor  Dept. of Statistics, Texas A&M University

Presentations and Workshops: Past 2 years
i. Invited
   1. Presentation for IAMCS Machine Learning on Text Analytics, Feb 4, 2014
   2. 2-day Workshop – Econometrics using Stata, Aug 21-22; Mexico City

ii. Contributed
   1. Half-Day Workshops
   2. Text Analytics - CSP-2014, Tampa, FL; Feb 20, 2014
   3. Text Analytics - SESUG, Myrtle Beach, NC; Oct 19, 2014
   4. Text Analytics - SCSUG, Austin, TX; Nov 12, 2014

iii. Papers
   1. Text Analytics using High Performance SAS, MWSUG, Chicago, IL; Oct 7, 2014

Grants in last five years:
i. University Grants – Submitted (co-investigator)
   1. (2013) 2 submitted for $32,222
   2. (2014) 3 submitted for $325,514
   3. (2015) 1 submitted for $137,555

ii. Contracts
   1. (2012-2015) Dept. of Veterans Affairs ($21,600/Yr)
   2. (2014) Capital One ($59,000)
   3. (2015-2018) Dept. of Treasury ($199,000 over 3 years)

Awards and Honors: Please annotate as space allows
i. 2014 – Mentored 1st and 3rd place teams in Capital One Modeling Competition
ii. 2012 – Mentored 1st and 2nd place team in Capital One Modeling Competition
iv. 2013 – Text Analytics Workshop selected for sponsorship by ASA Board of Directors

Service: Please annotate as space allows
Sessions Organized and Work at National Meetings of the American Statistical Association (ASA)
i. Organizing Committee and Organizer for Analytics Track – Conference on Statistical Practice 2014 – Orlando, FL.
ii. Organizing Committee and Organizer for Analytics Track – Conference on Statistical Practice 2015 – New Orleans, CA.
iii. Organizing Committee and Organizer for Analytics Track – Conference on Statistical Practice 2016 – San Diego, CA.

**Students Supervised (2014-2016):**

i. MS expected in 2016
   1. Cindy Czako
   2. Giewee Hammond
   3. Ziad Katrib
   4. Yoel Kluk
   5. Pablo Ormachea

ii. MS expected in 2015
   1. William C. Dean
   2. Aaron D. Agnew
   3. Salsawit Shifarraw
   4. Katrina Williams
   5. James M. Bergeron
   6. Steve J. Bowden
   7. Lauren Engle
   8. Danny Leonard
   9. Erin Parrott
   10. Bora Tarhan
   11. Bryce Durgin

iii. MS graduated in 2014
   1. Kurt B. Johnson*
   2. Shiva S. Dhandapani
   3. Wenling Zhang
   4. Qian Zhou
   5. Colm Walsh*
   6. James Joseph*

   *Committee chair or co-chair

**Collaboration with TAMU System Researchers (Fall 2014 – Spring 2015)**

1. (2015-) Sakhila, Banu, – Dept. of Veterinary Integrative Biosciences
2. (2015-) Snider, Erin, – TAMU Bush School of Government
3. (2014-) Bevans, John, DVM – College of Veterinary Medicine and Central Texas Specialty Hospital
7. (2014) Moyna, Irene, – Dept. of Hispanic Studies
9. (2014) Lacey, Ron and Faulkner, Brock – AgriLife College Station
10. (2014) Swiger, Sonja, – AgriLife Stephenville, TX
MIKYOUNG JUN

Education:

Appointments:
- Associate Professor (with Tenure)  Department of Statistics, Texas A&M University  Sep 2012 - Present.
- Adjunct Associate Professor  Department of Biostatistics, UT MD Anderson Cancer Center  Sep 2012 - Aug 2013
- Assistant Professor  Department of Statistics, Texas A&M University  Aug 2005 - Aug 2011
- Adjunct Assistant Professor  Department of Biostatistics, UT MD Anderson Cancer Center  Apr 2012 - Aug 2012
- Visiting Scientist  National Center for Atmospheric Research  Aug 2005 - Dec 2005

Publications:

ii. Other Noteworthy Publications:


Grants in last five years:


4. KAUST GRP Award, $1,250,000, Investigator, 2008-2013.

Awards and Honors:

1. Elected member of the International Statistical Institute (ISI)

2. Member of Editorial Boards:
   STAT, (2012-Present).

3. Visiting Scholar:
   Institute for Applied Mathematics, University of Heidelberg, October-December 2013.
   Department of Statistics, Seoul National University, June-September 2013.
   Center for Integrating Statistical and Environmental Science, University of Chicago, Summer 2006 & June-September 2007.

Service:

Sessions Organized and Work at National and International Meetings:

1. Program committee for JSM, Seattle, 2015.
2. Short course committee for ICSA-KISS joint meeting, Portland, 2014.
7. Co-organizer of the workshop on Data assimilation in the Geosciences, IAMCS, Texas A&M University, 2009.
9. Organizer of invited session:
10. Organizer of invited poster session for JSM 2015
11. Organizer of a topic-contributed session (or special topic session):
    JSM 2014, ISBA 2012, JSM 2010,

Other noteworthy service:
2. Associate Director, Program in Spatial Modeling, Department of Statistics, Texas A&M University, 2009-2012.
3. National Science Foundation review panel 2012.

Courses taught:
STAT 211 (Principle of statistics I) (undergraduate)
STAT 647 (Spatial statistics) (graduate, on-campus course as well as a course for business analytics program)
STAT 685 (ATMO 685) (graduate, joint course with ATMO)

Students Supervised:
Soojin Roh (2014), Ph.D, Texas A&M University (jointly with Marc Genton)
Dissertation: Robust Ensemble Kalman Filter and Localization for Multiple State Variables

Robert Philbin (2014), M.S, Texas A&M University
Forrest Womack (2014), M.S, Texas A&M University
Paul Reed (2012), M.S, Texas A&M University
Justin Chown (2011), M.S, Texas A&M University (jointly with Mike Sherman)

Post-Docs Supervised:
Dr. Myoungji Lee, Texas A&M University, 2012-2014. (jointly with Marc Genton)
MATTHIAS KATZFUSS

Education:
The Ohio State University  Statistics  M.S. (2008)
The Ohio State University  Statistics  Ph.D. (2011)

Appointments:
Assistant Professor  Texas A&M University  2013-Pres.
Akademischer Rat auf Zeit (Postdoc)  Universität Heidelberg  2011-2013

Refereed Publications:
i. Last five years:
      (Student Paper Award, First Place, ASA Section on Statistics and the Environment)

Grants in last five years:
i. Last five years:
   1. Visiting Researcher Grant ($13,156) at the National Center for Atmospheric Research (NCAR), awarded by the Research Network for Statistical Methods for Atmospheric and Oceanic Sciences (2015)

Awards and Honors:
1. Poster Award, Fifth IMS–ISBA Joint Meeting, Chamonix, France (2014)
2. Young Investigator Travel Award ($550), Fifth IMS–ISBA Joint Meeting (2014)
3. Student Paper Award, First Place ($1,000), American Statistical Association, Section on Statistics and the Environment (2011)
4. Ransom & Marian Whitney Award for Best Dissertation Research ($400), Department of Statistics, The Ohio State University (2011)

5. Young Investigator Travel Award ($650), Fourth IMS–ISBA Joint Meeting (2011)

6. Ransom & Marian Whitney Award for Outstanding Research Associate ($150), Department of Statistics, The Ohio State University (2010)

7. Edward G. Mayers Travel Fellowship ($1,000), Division of Natural and Mathematical Sciences, The Ohio State University (2010)

8. Edward J. Ray Travel Award for Scholarship and Service ($750), Council of Graduate Students, The Ohio State University (2010)


Service:


2. Committees at Department of Statistics, Texas A&M University
   - Faculty Recruitment Committee (2014 – 2015)
   - Department Advisory Committee (2014 – 2015)
   - Website Redesign Committee (2014)

3. Session Organizer, “Spatial Statistics for Big Environmental Datasets” (Invited Session), Joint Statistical Meetings, Montréal, Canada (2013)


5. Student-Body President, Department of Statistics, OSU (2009 – 2011)


Students Supervised:
Jaehong Jeong (2015 (expected)), Texas A&M University: Committee Member (main advisor: Mikyoung Jun)
ELIZABETH YOUNG KOLODZIEJ

Education:
University of Georgia    Statistics    M.S. (2005)

Appointments:
Instructor        Department of Mathematics, Robert Morris University    Fall 2010-Spring 2012
Senior Lecturer    Department of Statistics, Texas A&M University    Summer 2012-Present

Presentations:

Awards and Honors:
Distinguished Graduate Student Award for Excellence in Teaching    2010
Fellow, Graduate Teaching Academy    2009
Graduate Merit Fellowship, Texas A&M University    2005
Outstanding Graduate Student Teaching Award, University of Georgia    2005

Service:
Member, Undergraduate Degree Committee    2014-2015

Students Supervised:

Committees served on:

1. Kishan Raj (2015 - pending), M.S., INEN
3. Teresa Barnett (2015 - pending), M.S., STAT
4. Jonathan Presto (2015 - pending), M.S., STAT
5. Daniela Sakamoto (2015 - pending), M.S., STAT
6. Jeremy Fergason (2015 - pending), M.S., STAT
7. Jin Do (2015 - pending), M.S., STAT
8. Nicholas Darschewski (2015 - pending), M.S., STAT
9. Ulagappa Abinaya (2014), M.S., INEN
10. Kenneth Reed (2014), M.S., MATH
11. Yonatan Negash (2013), M.S., STAT
HWA CHI LIANG

Education:
Soochow University, Taiwan  Business Mathematics  B.A. (1979)
University of Texas at Austin  Mathematics  M.A. (1987)
University of New Mexico  Statistics  Ph.D. (2003)

Appointments:
Senior Lecturer  Department of Statistics, Texas A&M University  Fall, 2014 – Pres.
Associate Professor  Department of Mathematics & Statistics, Washburn University  2010 – 2014
Assistant Professor  Department of Mathematics & Statistics, Washburn University  2004 – 2010

Publications:
none in the past 5 years

Grants in last five years:
none

Collaboration
Currently collaborate with Professor Jenn-Tai Liang at the Department of Petroleum Engineering, Texas A&M University in developing proposals that involve statistical applications for research in petroleum engineering.

Awards and Honors:
Member of Editorial Boards:

Service:
Washburn University Service Record (2004 – 2014)
Supervisor of Math Tutor Center
Evaluation committee for the Dean of College of Arts and Sciences
Faculty Senate
Mentor for new faculty
College Faculty Council (CFC)
The CFC Curriculum subcommittee
The Interdisciplinary Studies Committee

Students Supervised:
JAMES P. LONG

Education:
- University of California, Berkeley, USA  Statistics  Ph.D. (2013)

Appointments:
- Assistant Professor  Department of Statistics, Texas A&M University  2013-Pres.

Publications:
  i. Last five years:


Student Committees:
- Ph.D.
  - Shiyuan He (Statistics, Thesis Committee, 2015)

- M.S.
  - Ryan Oelkers (Physics & Astronomy, Thesis Committee, 2014)
  - Brett Salmon (Physics & Astronomy, Thesis Committee, 2015)
  - Leo Alcorn (Physics & Astronomy, Thesis Committee, 2015)
MICHAEL LONGNECKER

Education:

Michigan Technological University  Mechanical Engineering  B.S. (1968)
Western Michigan University  Statistics  M.S. (1972)
Florida State University  Statistics  Ph.D. (1976)

Appointments:

Interim Department Head  Department of Statistics, Texas A&M University  2004-2005
Associate Department Head  Department of Statistics, Texas A&M University  2000-Current
Director of Consulting Center  Department of Statistics, Texas A&M University  2000-2012
Professor  Department of Statistics, Texas A&M University  1992-Current
Visiting Associate Professor  Department of Statistics, Univ. of Wisconsin-Madison  1989-90
Associate Professor  Department of Statistics, Texas A&M University  1984-1992
Assistant Professor  Institute of Statistics, Texas A&M University-CS  1977-84
Visiting Assistant Professor  Department of Statistics, Florida State University  1976-77

Publications:

i. Last five years:


ii. Textbook:


Grants in last five years:

i. Last five years:


ii. Other Noteworthy Grants:


Awards and Honors:

1. National Mu Sigma Rho Statistics Education Award, 2011
3. Western Michigan University Alumni Achievement Award, 2007
4. Finalist for the Texas A&M University Presidential Professor for Teaching Excellence, $10,000 Award, 2004
5. The Association of Former Students of Texas A&M University, Faculty Distinguished Award in Teaching, 1994
6. The Association of Former Students of Texas A&M University, College of Science, Distinguished Teaching Award, 1982

National Service:

1. Associate Editor: *Journal of the American Statistical Assoc. (JASA)*, (1989-92)
3. Member of The Committee on Membership Retention and Recruitment, (2010-2014)
4. Co-Chair of The Committee on Membership Retention and Recruitment, (2010-2014)

Students Supervised: (All at Texas A&M University)

Frederic Che-Yuen, Ph.D., (1982)
Dissertation: Nonparametric Tests for Homogeneity of the Marginal Distributions of Paired Data

Edgar Wayne Richardson, Ph.D., 1986
Dissertation: Asymptotic Normality of the Parameters of Certain Mixtures of Discrete and Continuous Distributions

Dennis W. King, Ph.D., 1988
Dissertation: Nonparametric Procedures for Process Control
Randy Bartlett, Ph.D., 1993
Dissertation: Measures of Capability Under Nonstandard Conditions

Diane Davies, Ph.D., 1994
Dissertation: Statistical Process Control for Correlated Data

Qinli Yue, Ph.D., 1996
Dissertation: Chemometric Calibration and Partial Least Squares

Abeer Al-Khouli, Ph.D., 1999
Dissertation: Robust Estimation and Bootstrap Testing for the Delta Distribution with Applications in the Marine Science

Yibing Zhong, Ph.D., 2000
Dissertation: The Spatial Modeling of a Mixture Distribution

Chair of over 100 Statistics M.S. Committees, 1980-2014

Member of over 80 Statistics Ph.D. Committees, 1980-2014

Member of over 350 non-Statistics M.S. and Ph.D. Committees, 1980-2014
BANI K. MALLICK

Education:

Appointments:
- Distinguished University Professor, Department of Statistics, Texas A&M University: 2011-Present
- Professor, Department of Statistics, Texas A&M University: 2003-2011
- Director, Center for Statistical Bioinformatics, Texas A&M University: 2010-Present
- Director, Bayesian Bioinformatics Lab, Texas A&M University: 2006-Present
- Adjunct Professor of Biostatistics, MD Anderson Cancer Center: 2006-Present
- Adjunct Professor, University of Michigan: 2008-2010
- Associate Professor, Department of Statistics, Texas A&M University: 2000-2003
- Assistant Professor, Department of Statistics, Texas A&M University: 2000-2003
- Permanent Lecturer, Department of Mathematics, Imperial College, London: 1994-1998

Publications (Last 5 years):


Books Published in last five years:

Grants in last five years:
2. Norman Hackerman Advanced research program (ARP), ($150,000). “Bayesian Hierarchical Models for Integrating Multi-resolution Information”, PI, 2008-2010
3. NSF, $769,053 “Bayesian Data Mining Approaches for Biological Threat Detection”, PI, 2009-2012
4. NIH, $862,000 “Bayesian models for gene expression with microarray data”, PI, 2005-2010
5. DOE, $347,714 “Bayesian uncertainty quantification in predictions of flows in Highly heterogeneous media and its applications to the CO2 sequestration”, Co-PI 2012-2016
8. King Abdullah University of Science and Technology (KAUST) Global Research Partnership Center Award, Co-I, 2008-2013

Awards and Honors:
Fellow of the American Association for the Advancement of Science (AAAS)
Fellow of the Institute of Mathematical Statistics (IMS)
Association of Former Students Distinguished Achievement in Research, Texas A&M University, 2006
Fellow of the American Statistical Association (ASA)
Elected member of International Statistical Institute (ISI)
Fellow of the Royal Statistical Society (RSS)
Outstanding Researcher Award, 2007: International Indian Statistical Association
Member of Editorial Boards:
Journal of Computational and Graphical Statistics (JCGS) (2004-Present)
Biostatistics (2009-Present)
SIAM/ASA Journal on Uncertainty Quantification (2013-Present)
Chemometrics (2013-Present)

Service:
Member of SHRP2: Safety Technical Coordinating Committee (TCC), Transportation Research Board, The National Academies
Member of Executive Committee of Institute for Applied and Computational Science (IAMCS)
Reviewer of Canada Research Chair Program
Reviewer of EPSRC Research Proposals, UK
Reviewer: Initial Period Review of Professors, Oxford University, UK
President (2002-2008), Southeast Texas Chapter

Students Supervised: (Total 25 Students, List of a few recent students with current employers)
Souparno Ghosh (2009), Assistant Professor, Texas Tech
Soma Dhaivala (2010), Associate Researcch Scientist, Dow Agroscience
Brian Hartman (2010), Assistant Professor, University of Connecticut
Bledar Konomoi (2011), Assistant Professor, University of Cincinnati
Anirban Mondal (2011), Assistant Professor, Case Western Reserve University
Lin Zhang (2012) Assistant Professor, University of Minnesota
Abhra Sarkar (2014), Postdoctorate Fellow, Duke University

Post-Docs Supervised: (Total 10, List of recent ones with current employer)
Anindya Bhadra (2010-2012), Assistant Professor, Purdue University; Avishek Chakraborty (2012-2014), Assistant Professor, University of Arkansas; and Supratik Kundu (2012-2014) Assistant Professor, Emory University.
URSULA U. MÜLLER

Education:
Freie Universität Berlin, Germany Mathematics Diplom (1993)
Universität Bremen, Germany Mathematics Dr. rer. nat. (1997)
Universität Bremen, Germany Mathematics Habilitation (2005)

Appointments:
Professor Department of Statistics, Texas A&M University 2013-present
Assoc. Professor Department of Statistics, Texas A&M University 2009-2013
Assist. Professor Department of Statistics, Texas A&M University 2006-2009

Publications:

**ii. Other noteworthy publications:**


**Grants in last five years:**


**Awards and Honors:**


2. Elected member of the International Statistical Institute (ISI),

**Service (last five years)**

Sessions organized and work at national and international meetings:

1. Organized and chaired invited sessions at the 2012 Joint Statistical Meetings (San Diego, CA), and the 2013 IISA conference (Chennai, India).

2. Chaired sessions at Joint Statistical Meetings (Miami Beach, 2011, Montreal, 2013), the 2012 Open Conference on Probability and Statistics (Mainz, Germany), the 2014 ISNPS conference (Cadiz, Spain) and the 2014 IASSL conference (Colombo, Sri Lanka 2014).

**Students Supervised:**

1. Justin Chown (2014), Ph.D, Texas A&M University
   Dissertation: New approaches in testing common assumptions for regressions with missing data.

2. Scott D. Crawford (2012), Ph.D, Texas A&M University
   Dissertation: Efficient estimation in a regression model with missing responses.

3. Member of 10 Ph.D and 24 M.S. advisory committees at Texas A&M University since 2006
MOHSEN POURAHMADI

Education:
College of Statistics, Tehran, Iran Statistics B.S. (1973)
Michigan State University Statistics M.S. (1977)

Appointments:
Professor (Visiting) Department of Statistics, University of Chicago Fall, 2014
Professor Department of Statistics, Texas A&M University 2008-Pres.
Professor Division of Statistics, NIU 1989-2008
Professor (Visiting) Department of Statistics, University of Chicago 2001-2002
Director Division of Statistics, NIU 1994-2001
Associate Professor Division of Statistics, NIU 1985-1989
Associate Professor (Visiting) University of California, Davis 1987-1988
Assistant Professor (Visiting) University of N. Carolina, Chapel Hill 1984-1985
Assistant Professor Northern Illinois University (NIU) 1981-1985

Publications:
1. Last five years:

ii. Other Noteworthy Publications:

   1. *Journal of Statistical Planning and Inference*, Vol. 140, December 2010, Guest Editor (with Richard Davis), Special Issue in honor of Emmanuel Parzen’s 80th Birthday and Retirement from the Department of Statistics, Texas A&M University.


**Grants in last five years:**

i. Last five years:


ii. Other Noteworthy Grants:

3. NSF-SCREMS (Scientific Computing Research Environments in Mathematical Sciences (1997-98) $75,000.

**Awards and Honors: Please annotate as space allows**

1. Elected member of the International Statistical Institute (ISI),

2. Fellow of the American Statistical Association,

3. Member of Editorial Boards:  
4. Visiting Scholar:
   Department of Mathematics, Hiroshima University, March 2012.
   Department of Statistics, Pontificia Universidad Catolica de Chile, May 2011.
   Melbourne Business School, University of Melbourne, Australia, (May-June, 2009).
   Australian School of Business, University of New South Wales, Australia, (July, 2009).
   Department of Mathematics, Hokkaido University, Japan (July-August 2005 and March, 2007)
   Department of Mathematics and Statistics, Kuwait University, Kuwait (May, 2004).

**Service: Please annotate as space allows**

**Sessions Organized and Work at National and International Meetings:**


5. Chair of the Local Arrangements Committee (LAC) for the joint statistical meetings in Chicago in August 1996.

**Students Supervised:**

Ranye Sun (2014), Ph.D, Texas A&M University
Dissertation: Reduced Rank Multivariate Regression and Generalized Matrix Decomposition using Thresholding Methods.

Priya Kohli (2012), Ph.D, Texas A&M University
Dissertation: Prediction of Stationary Random Fields. (Co-advviser, Willa Chen)

Lianfu Chen (2011), Ph.D, Texas A&M University
Dissertation: Regularization of Parameters in Multivariate Linear Regression.


Tsair-Chuan Lin, Ph.D. in Probability and Statistics, 1996.


**Post-Docs Supervised:**

Dr. Bahram Tarami, Shiraz University, Iran, 2000-2001.
Dr. Yukio Kasahara, The University of Tokyo and The Hokkaido University, Japan, Summers 2004 and 2006.
HUIYAN SANG

Education:
Peking University, Beijing, China  Mathematics and Applied Mathematics  B.S. (2004)

Appointments:
Associate Professor  Texas A&M University  2014-present
Assistant Professor  Texas A&M University  2008-2014

Publications:
i. Last five years:
10. (with M. Genton and Y. Ma) On the likelihood function of Gaussian max-stable processes indexed by \( R^d, d \geq 1 \), *Biometrika*, (2011), 8, 481-488.

ii. Other Noteworthy Publications:


**Grants in last five years:**

i. Last five years:


4. IAMCS-KAUST Innovative Research Award, co-PI, $35,000, “Computationally Tractable Approximate Likelihood Inference for Irregularly Spaced Massive Spatial Data Sets”, 2010-2011


**Awards and Honors: Please annotate as space allows**

1. ISBA Young Researcher Award, Google, 2012

2. NSF INI Travel Award, National Science Foundation, 2008

3. Member of Editorial Boards:
   
   *STAT* (2013-Present).

**Teaching:**

Courses Taught


2. Statistics 610: Distribution Theory. Fall 2010


**Service: Please annotate as space allows**

Sessions Organized and Work at National and International Meetings:


Students Supervised:

Xinxin Zhu (2013), Ph.D. Texas A&M University
Dissertation: Wind Forecasting for Power System Operation
Blemar Konomi (2011), Ph.D. Texas A&M University
Dissertation: Bayesian Modeling of Spatial and Spatial-Temporal Data
Bohai Zhang(expected in 2015), Ph.D, Texas A&M University
Dissertation: Computational Methods for Large Spatial and Spatial-Temporal Data

Post-Docs Supervised:
Dr. Irma Hernandez, UC-Berkeley, CA, 2014-present.
HENRIK SCHMIEDICHE

Education:
Texas A&M University  Computer Science  B.S. (1987)

Appointments:
Lecturer  Department of Statistics, Texas A&M University  1993-1997
Senior Lecturer  Department of Statistics, Texas A&M University  1997-Pres.
Director IT  College of Science, Texas A&M University  2014-Pres.

Current Job duties:
- Director of information technology for the College of Science.
- Supervise, maintain and administer the information technology infrastructure of the Dept. of Statistics at Texas A&M University.
- Supervisor of two “Senior Microcomputer/LAN Administrators” in the Dept. of Statistics.

Service:
- Information Technology Advisory Committee (2008-Pres.) University wide committee to advise Texas A&M on IT matters.
- Information Policy Committee (2008-Pres.). University wide committee to propose and review Texas A&M IT policy.
- Member of the Brazos Architecture and Oversight Committee. Brazos is a 300 node HPC cluster.

Course Taught:
- Advanced Topics in Computational Statistics (STAT 605).
SIMON SHEATHER

Education:
University of Melbourne  Statistics  B.S. 1st class honors (1981)
La Trobe University  Statistics  Ph.D. (1986)

Appointments:
Professor  Department of Statistics, Texas A& M University  2005-Present
Professor  AGSM, University of NSW  1998-2005
Associate Professor  AGSM, University of NSW  1994-1997
Lecturer / Senior Lecturer  AGSM, University of NSW  1987-1993
Professor (Visiting)  Stern School of Business, NYU  2001
Associate Professor (Visiting)  Department of Statistics, Penn State  1987

Publications:

i.  Last five years (10 selected from a total of 17):

ii.  Other Noteworthy Publications:


**Grants in last five years:**

**Awards and Honors:**
2. University of New South Wales Vice Chancellor’s Award for Teaching Excellence (1994)
5. Inaugural AGSM Award for Excellence in Research (2002)
7. Fish Camp Namesake, Texas A&M University (2012)
9. Texas A&M University Association of Former Students Distinguished Achievement College-Level Teaching Award (2013)

**Service: (last 5 years)**

**Major Administrative Roles:**
1. Head of the Department of Statistics (2005-2014)
2. Director of Online Programs, Department of Statistics (2011 – present)
3. Academic Director of MS Analytics Program, Department of Statistics (2013- present)

**Selected National/International Service:**
1. Chair of the External Review Committee for the Department of Statistics at the University of Kentucky (2012)
2. External Review Committee for the Department of Mathematics and Statistics at the University of Cyprus (2012)
3. External Review Committee for the Department of Statistics at the University of British Columbia (2013)

**University committees:**
1. Chair, Faculty Evaluation Task Force on Teaching, President’s Task Force on Faculty Evaluations (2009-2010)
2. Massive Open Online Course (MOOC) Exploration Committee (2012-2013)
4. Activity leader for the ADVANCE leadership development program for Department Heads (2012-2014)
5. Member (2011-2013) and Chair of the Department Head Council (2013-2014)
6. Member of the President’s Council on Climate and Diversity (2013-2014)
7. Email Selection Advisory Committee (2013-2014)
9. Strategic Re-allocation Sub-Council (2013-2014)
11. College of Science Selection Committee for The Association of Former Students' College-Level Teaching Awards (2014)

Community Service:
1. Member of the Board of the Boys and Girls Club of the Brazos Valley (2011 - present)

Students Supervised (last 5 years):

Ph D – 4 students
1. Olga Savchuk (2009), Choosing a Good Kernel for Cross-Validation (co-chair with J. Hart)
2. Charles Lindsey (2010), SMVCIR Dimensionality Test (chair)
3. Bradley Barney (2011), Bayesian Joint Modelling of Binomial and Rank Response Data (co-chair with V. Johnson)
4. Dominic Jann (2012), Bayesian Methods for Record Matching (co-chair with M. Speed)

MS (Statistics) – 50 students
1. Clarissa La (2010), Retaining Loyal, High-Value Hilton Honors Members (co-chair with M. Speed)
5. Kathleen Hosek (2014), Modeling residence hall utilities consumption (chair)
7. Taylor Davis (2014), Predicting changes in customer satisfaction (chair)
8. Alex Bessinger, Joel Galang, Joseph Magagnoli, Jennifer Morse and Hung Tran (2014), A model for opening weekend box office revenue based on Wikipedia activity (co-chair with A. Dabney)
9. Daniel Evert, Michael Knous, Christopher Rodriguez and Samuel Temple (2014), Logistic regression models for predicting the probability of a birdie or better on the PGA tour (co-chair with A. Dabney)
11. Dan Liu, Alex Pestrikov, Richard Chapman, Lance Costello and Uday Hejmadi (2014), Predicting daily usage in the Capital Bikeshare system (chair)
12. Sydney Anuskiewicz, Patrick Clark, Thomas Duffy, Andrea Ferris, Raymond Kui, Alana Moczydlowski, Wenxin Pang, Johannes Rojen, Eric Talarico and Sui Zhang (2015), Predicting credit events in 30 year mortgages using the Freddie Mac loan performance data (chair)
13. Teresa Barnett, Nicholas Darschewski, Jin Do, Jeremy Fergason, Jonathan Presto and Daniela Sakamoto (2015), Predicting US gross movie box office receipts along with days in release (chair)
14. Lynetta Campbell, Felipe Chacon, John Czarnek, Jeffrey Kirk and Susan Uland (2015), Predicting sound pressure levels using a data set from NASA (chair)
15. Garrett Anderson, Wenhong Fan, Paul Garrett and Shuhua Xia (2015), Predicting daily utility consumption in residence halls at TAMU (chair)

MS (Analytics) – 8 students
1. Steve Bowden (2015), Predicting churn (chair)
2. Aaron Agnew (2015), Modeling credit events (chair)
3. Lauren Engle (2015), Modeling loyalty program usage (chair)
4. Danny Leonard (2015), Modeling the effect of price on demand (chair)
5. Erin Parrott (2015), Predicting future demand (chair)
6. Mike Bergeron (2015), A pricing model (co-chair with E. Jones)
7. Bora Tarhan (2015), Modeling gasoline prices across the US (co-chair with M. Speed)
8. Salsawit Shifarraw (2015), Modeling in-patient ratings of hospital care (co-chair with E, Jones)
教育:
 Departement of Mathematics, University of Massachusetts, Amherst Mathematics B.A. (1987)
 Department of Statistics, University of North Carolina at Chapel Hill Statistics M.S. (1990)
 Department of Statistics, University of North Carolina at Chapel Hill Statistics Ph.D. (1992)

任命:
 Professor Department of Statistics, Texas A&M University 2008–present
 Associate Professor Department of Statistics, Texas A&M University 1999–2008
 Assistant Professor Department of Statistics, Texas A&M University 1994–1999
Postdoctoral Fellow Department of Biostatistics, University of Rochester 1992–1994

出版物:
 i. 近五年的:

5. (与 A. Maity 和 S. Wang) 比率的推断: Fiellers 间隔、对数比率和大型样本基底

ii. 其他值得注意的:


**Grants in last five years:**

i. Last five years:


ii. Other Noteworthy Grants:


**Awards and Honors:**

1. Elected member of the International Statistical Institute (ISI),

2. College of Science Distinguished Achievement Award from the Association of Former Students at Texas A&M University, 2002

3. Member of Editorial Boards:

**Service:**

Member of Site Visit Team for the Carolina Population Center, March 2000.

**Refereed Papers (Proposals) for:**


**Students Supervised:**

*Ph.D. Students mentored at Texas A&M:*

Yongtao Guan (advised jointly with J.A. Calvin)
Eric Hintze
Bo Li (advising jointly with R.J. Carroll)
Elizabeth Young

*Master’s Students mentored at Texas A&M:*

Susan Gao
Xiaoqi Li
Min Chen
Justin Chown
Lei Wang
Todd Napier
Celeste Wilson
Stephanie Berland

_Served on Master's or Ph.D. Students mentored at Texas A&M 2006-present:
_Shuo Feng
_Negin Alemazkoor
_Nishal Kafle
_Zachary Scott
_Melissa Lee
_Jincheol Park
_Jason Poole
_Hisham Almohammadi
_Angela Brown
_Soutir Bandyopadhyay
_Eric Talbot
_Dlonglin Han
_Xiaso Zeng
_Ying Sun
_Roma Garg
_Yanru Zhang
_Siqi Li
SAMIRAN SINHA

Education:
Kalyani University, West-Bengal, India  Statistics  B.Sc. (1997)
Calcutta University, West-Bengal, India  Statistics  M.Sc. (1999)

Appointments:
Visiting Associate Professor  Michigan State University  2011
Associate Professor  Texas A&M University  2010–present
Visiting Assistant Professor  Michigan State University  2009-2010
Assistant Professor  Texas A&M University  2004-2010

Publications:

i. Last five years (max 10):


ii. Other Noteworthy Publications:


Grants in last five years:

i. Last five years:


Service:

Sessions organized in conferences in the last 5 years:


2. Chaired the session “Bayes estimation in Modern Cancer Epidemiological Studies” in the IISA 2014, Riverside, CA.

3. Organized one invited session in the ENAR meeting 2011. Title of the session: “Disease mapping and spatial regression as emerging tools for surveillance epidemiology”. Speakers: Peter Congdon, Lance Waller, Tapabrata Maiti, and Andrew Lawson.

4. Chaired the session ”Disease mapping and spatial regression as emerging tools for surveillance epidemiology” in the ENAR 2011 meeting.

5. Chair of the IMS new researchers conference organizing committee for the year of 2010 which was held in Vancouver, Canada. The details of the conference can be found at [http://www.stat.tamu.edu/~sinha/nrc2010-ims.html](http://www.stat.tamu.edu/~sinha/nrc2010-ims.html).


Students Supervised:

Ph.D students:
Jiangang Miao (2014); Dissertation was on missing data and measurement errors in epidemiological studies.

Jenny X. Sun (2010); Dissertation was on small sample bias corrections in the conditional logistic regression.

Master’s students:
Seungyoon Yoo (2010)
Minkyung Oh (2011)
Charles Gordon (2012)
Jenn Hanley-Burkhart (2012)
Stacie Blaskowski (2012)
Abigail Green (2013)
Craig Kreisler (2013)
CLIFFORD H. SPIEGELMAN

Education:

Northwestern University  Managerial Economics  M.S. (1973)

Appointments:

Distinguished Professor  Department of Statistics, Texas A&M University  2009-Pres.
Professor  Department of Statistics, Texas A&M University  1990-2008
Senior Research Scientist  Texas A&M Transportation Institute (TTI)  2004-Pres.

Selected Publications out of 13:

i. Last five years:

ii. Other selected Noteworthy Publications:
Grants/Cooperative Agreements in last five years. Spiegelman as PI:

i. Last five years:
   2. TAMU/Weizmann, $88,000 A non-parametric Markov approach to classification and regression, 2012-2015
   3. Southwestern University Transportation Research Center (SWUTC/USDOT), $135,253, “Write a transportation textbook and associated course creation, 2008-2014

ii. Southwestern University Transportation Research Center (SWUTC/USDOT), How do Travelers Perceive the Value of Travel Time Reliability? $45,000. (Joint PIs Burris from TAMU Civil Engineering and Spiegelman) 2013-2014.

iii. Grants where Spiegelman was Co-PI, Heath Effects Institute, $251,814 (through TTI) Development of enhanced statistical methods for assessing health effects associated with an unknown number of major sources of multiple air pollutants 2009-2014.

iv. Other Noteworthy Grants/Cooperative Agreements:
   1. NCI 2006-2009, SAIC-Frederick-NCI-Proteomic Technology”, $2,170,547 for helping run the NCI proteomics program, particularly the statistical aspects.

Awards and Honors:

i. NRC noteworthy awards:
   1. 2002 and 2008- Statistics in Chemistry Awards for Best Paper by the ASA
   2. 1991- W. J. Youden Award given by the American Statistical Association for the best paper on Interlaboratory Comparisons
   3. 2015-2016 Co-chair SAMSI program on forensic science.
   4. 2012-Present. Member of 9 person Technical Advisory Board for the Houston Forensic Science LGC (The city of Houston crime lab.)
   5. 2014-Fellow of the American Association for the Advancement of Science (AAAS),
   6. 2013-Honor University wide lecture on the forensic aspects of the JFK assassination 50-year anniversary lecture. All of the networks ABC, NBC, and CBS covered the talk. The work was also cited extensively in
   7. 2012-2013 Invited to write a series of editorials for the Austin American Statesman on the state of forensic science in this country. Three were written and featured on the first page of the editorial section and 2 were above the fold.
   8. 2009- Paper with Nagyvary covered by international print media including Time Magazine and the Christian Science Monitor
   9. 2008-2014-National Institute of Statistical Sciences (NISS) Board of Directors (term limited off), and Department representative 2004-present.
   10. 2007- Jerome Sacks Award for Cross-Disciplinary Research. This award is given to an individual whose work is cross-disciplinary and encompasses innovation in the statistical sciences. Preference will be given to work that creates new research relationships or substantially buttresses extant relationships.
   11. 2007- Honor- Interviewed by NBC Nightly News, CNN Situation Room, Geraldo at Large, The Washington Post, and may other national radio and newspapers about the JFK paper. It was a worldwide story and the lead story on Fox News for 2 days.
   12. 1994-Distinguished Achievement Award, ASA Section on the Environment
   13. 1993-Elected member of the International Statistical Institute (ISI)
   14. 1992-Fellow of the American Statistical Association (ASA),
   15. 1990-Fellow of the Institute of Mathematical Statistics (IMS)
   16. 1985-Present. 30 year long coeditor (founding) Chemometrics and Intelligent Laboratory Systems

Service:

ii. Sessions Organized and Work at National and International Meetings:
2. 1987 - 1991 Head ASA Committee on Statistics in Chemistry.
3. 2002-2003 Head and Co-organizer of Transportation Interest Group with the ASA Editorial.
4. 2003-2004 NRC committee for the FBI Bullet Lead Analysis.
5. 2002-2012 Member, Committee on Statistical Methodology and Statistical Computer Software in Transportation Research, Transportation Research Board, Division of NRC. I was term limited off.
6. Numerous JSM-ASA sessions on Forensic Science, Transportation, Environmetrics, and Chemometrics. I did not keep records, but they should be available from JSM programs. Also, I organized at least 2 Transportation Research Board (TRB) sessions and in 2012 with Larry Rilett gave a full day short course on micro simulation at the Transportation Research Board. (It should be apparent that I organize meetings and sessions for effect and not vita entries.)
7. AAAS Annual meeting 2013 session on Forensics Science
8. AAAS Annual meeting 2014 session on Data Availability (a featured session selected for web broadcasting around the world.)

Students Supervised:

Ph.D. Students Chairred:
1991 Chyon-Hwa Yeh
1997 Eun Sug Park
2000 Byron Gajewski
2001 Jacqueline Kiffe (Co-Chair)
2002 Naijun Sha (Co-Chair)
2012- Mary Frances Dorn

MS Students (During the last 4 years):
Lacy Brown - PhD in CVEN
Zehra Yalcin - MS in BAEN
Xiduo Wang - MS in CVEN
Robert E. Saw (current) - MS in STAT
Raymond Kui - MS in STAT
Chong Chin Heo - PhD in ENTO
Melissa Lee (Chair) - MS in STAT
Santosh Rao R. Danda (Did extensive work with him and on the supporting grant)- MS in CVEN
Liteng, Zha - MS in CVEN
Ryan Brady (Chair) - MS in STAT
Nicholas Nimchuk (Chair) - MS in STAT
Ernesto Ramos (Doing extensive work with him and expect a joint paper) - MS in ENTO
Zhi Chen - MS in CVEN
Tao Zhang - MS in CVEN
Nathan Shetty (joint chair) - MS in STAT
Bo Wang - MS in CVEN
Yiyi Wang (worked a lot with him) - PhD in STAT
Siamak Saliminejad - PhD in CVEN
Shuo Feng - PhD in STAT
Brian Shollar - MS in CVEN
Gregory Joseph Cepluch- MS in STAT
Benjamin Robert Sperry (Worked extensively with him) - PhD in CVEN
Nathaniel Allen Joy – (worked extensively with him) MS in AGEC
Jinpeng Lv - PhD in CVEN
Mehdi Azimi - PhD in CVEN
SUHASINI SUBBA RAO

Education:
University of Bristol  Mathematics  Ph.D. (2001)

Appointments:
- Associate Professor  Texas A&M, USA  2010-present
- Assistant Professor  Texas A&M, USA  2006-2010
- Lecturer  University of Bristol, UK  2005-2006
- Postdoctoral Fellow,  Universität Heidelberg, Germany  2001-2005

Publications:

i. Last five years:


ii. Before 2010:


**Grants and visits in the past 5 years:**

i. Grants:


**Service:**

1. Member of Editorial Board: Statistics (2012-Present).


**PhD Students Supervised and committee:**

1. Advised: Jun Bum Lee (2012)

SUOJIN WANG

Education:
Zhejiang University Mathematics B.S. (1982)
University of Texas at Austin Statistics Ph.D. (1988)

Appointments:
Professor Department of Statistics, Texas A&M University 1998–present
Joint Professor Department of Epidemiology and Biostatistics, Texas A&M University Health Science Center 1998–present
Visiting Professor Australian National University; University of Wollongong; Monash University Fall 2013
Visiting Professor King Abdullah University of Science and Technology Fall 2011
Visiting Professor University of Wollongong; Australian National University Fall 2010, Fall 2006
Visiting Professor University of Southampton; Swiss Federal Institute of Technology; University of Geneva 1999
Associate Professor Department of Statistics, Texas A&M University 1993–1998
Assistant Professor Department of Statistics, Texas A&M University 1990–1993
Research Associate Department of Statistical Science, Southern Methodist University 1988–1990

Selected Publications (from about 140 refereed publications):
i. Last five years:


ii. Other Noteworthy Publications:


**Grants in last five years:**

i. Last five years:

4. TAMU Institute of Applied Mathematics and Computational Science Innovation Award (2012–2013, P.I.)

ii. Other Noteworthy Grants:

Awards and Honors: Please annotate as space allows
1. Australian National University Mathematical Sciences Research Visiting Fellowship Award, 2013
2. Texas A&M University Student Led Award for Teaching Excellence, 2011
3. Texas A&M University System-wide Teaching Excellence Award, 2010
4. University-level Distinguished Achievement Award in Teaching, Texas A&M University, 2005
5. Texas A&M University Faculty Fellow, 2002-2007
7. Elected Member of the International Statistical Institute, 2000
9. College-level Distinguished Achievement Award in Teaching, Texas A&M University, 1997
10. ASA/NSF/BLS Senior Research Fellowship, 1994
12. Member of Editorial Boards:

Service: Please annotate as space allows
1. Review Panelist for the National Science Foundation (multiple times, most recent in 2015)
2. Chair of the ASA *Journal of Nonparametric Statistics* Editor-in-Chief Search Committee, 2015
5. President, Vice-President, Secretary of the Southeast Texas Chapter of the American Statistical Association, 1991–94
6. External Examiner for a Habilitation thesis at University of Bern, Switzerland
7. External Examiner for Ph.D. theses at Monash University, Australia, University of Geneva, Switzerland, Mangalore University, India, University of Sydney, Australia, and University of Wollongong, Australia

Students Supervised:
Supervised or co-supervised 21 Ph.D. students and 20 M.S. students.
On over 90 other graduate student supervisory committees.
THOMAS WEHRLY

Education:
University of Michigan–Ann Arbor Mathematics B.S. (1969)
University of Wisconsin–Madison Mathematics M.S. (1970)
University of Wisconsin–Madison Statistics Ph.D. (1976)

Appointments:
Professor Department of Statistics, Texas A&M University 1988-Pres.
Associate Professor (Visiting) Department of Statistics, University of North Carolina 1985
Associate Professor Department of Statistics, Texas A&M University 1982-1988
Assistant Professor Department of Statistics, Texas A&M University 1976-1982

Publications:

i. Last five years:


ii. Other Noteworthy Publications:


Grants in last five years:

i. Last five years:

1. “UBM Integrated Undergraduate Experiences in Biological and Mathematical Sciences”, Vincent Cassone, P.I., Thomas Wehrly one of 4 co-PIs, $499646, 5%, 9/15/04-8/31/11.
ii. Other Noteworthy Grants:


Awards and Honors: Please annotate as space allows

1. Member of Editorial Boards:
2. Visiting Scholar:
   - Australian National University, Canberra, Australia, (January–May 1990).

Service:

1. Chair, Undergraduate Committee, Department of Statistics, 2013–14, chaired the committee responsible for the proposal to Texas A&M University for an undergraduate degree in statistics.
2. Chair, Personnel and Tenure Committee 2009–13
3. Chair, Parzen Prize Committee, 2010–14.
5. Treasurer, Texas Kappa Chapter of Phi Beta Kappa at Texas A&M University, 2007–14.
6. Member, SEC Validation of Academic Credentials Review Committee, 2012–15
8. Member, Faculty and Staff Interaction Team (multidepartment committee), 2013–14.
9. Member, Implementation Task Force for Athletics (President’s committee), 2010–11
11. Member, President’s Task Force for Athletics, 2009–11
12. Member of departmental committees including Graduate Service Committee (2004–15), Graduate Program Committee (2005–14), Graduate Admissions Committee (2014–15), Department Head Search Committee (2013–14)
13. Speaker, Faculty Senate, Texas A&M University, 1999–2000.

Students Supervised:


   (co-chair, J. D. Hart)


*Master’s students supervised over the last 5 years (13 Master’s students supervised during previous years):*

1. Emily Seem, M.S., expected August 2015
2. Zachary Scott, M.S., May 2014
3. Huiwen Wilkerson, M.S., May 2014
4. Tara Cope, M.S., August 2013
5. Angela Brown, M.S., May 2013
7. Michael Yingling, M.S., December 2012
8. Alexander Little, M.S., May 2012
9. Cynthia Franklin, M.S., May 2012
LAN ZHOU

Education:
University of California at Berkeley Statistics Ph.D. (1997)
Beijing University, China Probability and Statistics M.A. (1992)
Beijing University, China Probability and Statistics B.A. (1989)

Appointments:
Associate Professor Department of Statistics, Texas A&M University 2014-Present
Assistant Professor Department of Statistics, University of Pennsylvania 2008-2014
Research Assistant Professor Department of Statistics, University of Pennsylvania 2005-2008
Research Assistant Professor Department of Statistics, University of Pennsylvania 2005
Biostatistician Department of Biostatistics, CCEB, University of Pennsylvania 1998-2004

Research Expertise:
Statistical methodology and application in bioinformatics, nutrition and epidemiology, spline/nonparametric smoothing, functional and longitudinal data analysis

Publications:
1. Last five years:

ii. Publications Before 2010:


**Grants in last five years:**

i. Last five years:


**Awards and Honors:**

1. The Certificate of Merit Award, International Conference of Computational Statistics and Data Engineering, World Congress of Engineering, 2008
   - for the paper “Effective linear discriminant analysis for high dimensional, low sample size data”

2. General Program Prize Paper, American Society for Reproductive Medicine, 2003
   - for the paper “Decline of serum human chorionic gonadotropin and spontaneous complete abortion: defining the normal curve”


**Service:**

1. Referee for 18 journals

2. Organizer of Invited Session: Recent Advances in Longitudinal and Functional Data Analysis

**Course Taught:**

STAT 211 (Principles of Statistics), STAT 302 (Statistical Methods), STAT 627 (Nonparametric Function Estimation)

**Ph.D. student advising committee:**

Shuai Chen (Chair), Huijun Pan (Co-Chair), Andrew Middleton Redd, Adrian Barquero Sanchez, Ye Eun Shin, Ya Su (Co-Chair), Jiawei Wei (Co-Chair), Tae Ho Yoon

**M.S. student advising committee:**

Michael James Alzubaydi, Deron Aucoin (Chair), Dai Chen (Chair), Shuai Chen (Co-Chair), Cody Cox, Eric Frederiksen, John J. Gosink (Chair), Barney Govan, Zhuoya He, Ming Jia, Geoffrey M. Lucas (Chair), Jennifer Phan, Eric Przybylinski (Chair), Yiyi Wang, Yuen Sum S. Wong, Mi Zhang, Tinyi Zhu