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13 SCIENCE POLICY
Loebsack Introduces Bill Promoting Statistical Literacy

This column is written to inform ASA members about what the ASA is doing to promote the inclusion of statistics in policymaking and the funding of statistics research. To suggest science policy topics for the ASA to address, contact ASA Director of Science Policy Steve Pierson at pierson@amstat.org.

Contributing Editor
Steve Pierson earned his PhD in physics from the University of Minnesota. He spent eight years in the physics department of Worcester Polytechnic Institute before becoming head of government relations at the American Physical Society.

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Making the Transition from Coursework to Research

This column is geared toward people who are in a statistics program, recently graduated from a statistics program, or recently entered the job world. If you have suggestions for future articles, or would like to submit an article, please email Megan Murphy, Amstat News managing editor, at megan@amstat.org.

Contributing Editors
Stacey Winham earned her BA in mathematics with a concentration in statistics from St. Olaf College. She is working toward a PhD in statistics with a focus on statistical genetics at North Carolina State University.

Danny Modlin earned his bachelor’s degree in mathematics from Elon University. After teaching middle-school and high-school mathematics for six years, he earned his master’s degree in statistics from North Carolina State University and is now working toward his PhD.
Online Articles

The following articles in this issue can be found online at http://magazine.amstat.org.


Statistical Analysis and Data Highlights. Motivations for the papers in the October issue run the gamut from adjusting to constant change, to finessing seemingly impossible enumerations, to finding new forms of simplification, to discovering hidden associations, to understanding underlying theory. See http://magazine.amstat.org/blog/2010/11/01/samhighlights.

Journal of the American Statistical Association Highlights. Read about reconstructing paleoclimate, massively parallel signature sequencing, methods for assessing the accuracy of summary statistics based on large sets of correlated normal variates, and an alternative to additive-error modeling. A list of reviewed books also is included. See http://magazine.amstat.org/blog/2010/11/01/jasahighlights.

If there is something you would like to see included, send an email to Megan Murphy, managing editor, at megan@amstat.org with the details.

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The Statistician’s Role in an Integrated Health Care System

This column is written for statisticians with master’s degrees and highlights areas of employment that will benefit statisticians at the master’s level. Comments and suggestions should be sent to Keith Crank, ASA research and graduate education manager, at keith@amstat.org.

Contributing Editors
Karen Valentine earned a BS in mathematics and an MStat in biostatistics from the University of Utah. At Intermountain Healthcare, she helped clinical investigators design clinical trials, before moving to work within a clinical program team in 2005 so she could have a greater impact on patient care.

Roberta James has an undergraduate degree in chemistry and, after working at a health services research company while in graduate school, she took a position at Intermountain Healthcare to gain experience in combining clinical operations with outcomes monitoring and research.

Cempaka Martial earned a BS in statistics from Brigham Young University and an MStat from the University of Utah. She joined the Intermountain Healthcare team in 2004 as part of the Intensive Medicine Clinical Program; however, she recently joined the Women and Newborns Clinical Program on a part-time basis.

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Teachable Moments

This is an exciting time to be a mathematical, statistical, or computational scientist. A combination of core, computational, and communication skills will be needed for solving problems in the future, requiring multidisciplinary teams. With massive amounts of data being generated in various scientific studies, there are—and will be—opportunities for us to play an important role in data quality, data confidentiality, data security, and data analysis. These opportunities also bring challenges that lead to new discoveries, theories, and methodologies. We will continue to play a key role in innovation and economic development in a data-centric world.

However, abundance of opportunity, global competitiveness, and the current economic climate also may put pressure on us and other scientists to cut corners or misuse statistical methodologies. It is important that we maintain high ethical standards and scientific integrity. A few resources to help with this include the following:

- Ethical Guidelines for Statistical Practice (developed by the ASA’s Committee on Professional Ethics), www.amstat.org/about/ethicalguidelines.cfm
- Principles and Practices for a Federal Statistical Agency (developed by the Committee on National Statistics), www.nap.edu/openbook.php?record_id=12564&page=R1

These resources provide excellent teachable moments for our students, neighbors, and the public in general. Please take advantage of any opportunity to promote the practice and profession of statistics.

Recent National Research Council rankings of graduate programs provide another opportunity to discuss good statistical methodologies used to develop such rankings and uncertainties inherent in any such study. They provide a teachable moment about the importance of defining variables clearly. If the data being input are not correct, the output will be questioned and corrections will have to be made.

Rising Above the Gathering Storm, Revisited: Rapidly Approaching Category 5, (www.nap.edu/catalog.php?record_id=12999) provides a depressing look at a gloomy future, but also teachable moments about changing direction with proper investments.

During a recent seminar at North Carolina State University, U.S. Census Bureau Director Bob Groves gave a progress report on Census 2010 and provided teachable moments about the challenges of conducting a census. [I encourage the continued use of statisticians in government and industry for seminars in academic departments.] During his talk, he mentioned the importance of statistical and quantitative literacy for children, who will be taking censuses and making data-enabled decisions in the future.

A number of observational studies, when the data are made easily available, provide teachable moments about the use and misuse of statistics and about false discovery rates. It is admirable that some of our members advocate good practice and take an active role in pointing out the misuses of statistics when they see it.

Climate modeling and health studies are also a source for examples. These topics have been in the news lately and provide the opportunity to highlight good statistical practices. It is a challenge to provide cautionary notes in a sound-bite world.

Recently, there was a memorial event in Berkeley celebrating the contributions of David Blackwell, who passed away in July. I learned much about him from his friends and relatives, including that he looked for simple solutions to complex problems and emphasized that the greatest truths are the simplest. It was also clear that he enjoyed teaching and mentoring, spending time with friends and family, having his martinis at 5 p.m., and looking for the positive in every situation. The memorial event was a “learnable” moment for me.

Editor’s Note: Any opinions expressed in this column are those of the ASA president and not necessarily those of the National Science Foundation.
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Analyzing data: Factor Analysis, Principal Component Analysis (PCA), Bipart, Discriminant analysis (DA), Correspondence Analysis (CA), Multiple Correspondence Analysis (MCA), Multidimensional Scaling (MDS), Agglomerative Hierarchical Clustering (AHC), k-means Clustering, Univariate Clustering, Modeling data: Distribution fitting, Linear regression (simple, multiple, stepwise), ANOVA (multiple comparisons tests), ANCOVA, Logistic regression (Logit, Probit), Multinomial logistic regression, Nonlinear regression, Kernel regression, Regression trees.

Tests: Tests on Contingency Tables, Correlation tests, Parametric tests for comparison of two samples (F, t, z, Levene, Bartlett), Comparison of two proportions, Non parametric Tests on two independent samples (Kolmogorov-Smirnov, Mann Whitney, Wilcoxon) or two paired samples (Wilcoxon's signed-ranks test and the sign test), Non parametric Tests on k independent samples (Kruskal-Wallis test) or k paired samples (Friedman's test), Goodness of fit tests after distribution fitting (Chi-square, Kolmogorov-Smirnov), Normality tests, Cochran-Armitage trend test, Cochran Q test, McNemar’s test, Row test...

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Hello! My name is Alessandra Boniface, and I am the new marketing coordinator at the American Statistical Association. I joined the team in June and immediately began helping to prepare for the annual Joint Statistical Meetings. At the conference, I worked in the Career Placement Service, assisting both applicants and employers. Post JSM, my focus has been on helping with member development and marketing.

I grew up in Essex Fells, New Jersey, with my Mom, Dad, three sisters, and our black lab, Chilmark. After graduating from high school, I attended Stonehill College in Easton, Massachusetts, and earned my bachelor's degree in communication with a minor in business administration. I moved to the Washington, DC, area when my fiancé—a captain in the Marine Corps—returned from Iraq and was stationed at Marine Barracks, Washington.

In my free time, I enjoy being outside and active. Among my favorite pastimes are sailing, kayaking, hiking, and especially running with my Boston terrier, Gus. One of my favorite things to do is travel to my family’s house on Martha’s Vineyard, where I am able to enjoy the beautiful beaches and swim in the ocean. Most recently, I have been focused on planning my upcoming wedding!

I enjoyed meeting some of you during JSM and look forward to meeting many more of you at future events. Please feel free to contact me at alessandra@amstat.org with any questions.

Free Fasttrack Articles

Regular online readers of the ASA’s journals at http://pubs.amstat.org have probably already seen the Fasttrack articles or received alerts when new articles were posted. Fasttrack gets articles out fast, before they’ve appeared in a specific journal issue, which means readers get the statistics literature they want right away and authors are published much faster.

The ASA staff is so excited about this feature that they have made November free Fasttrack month. Throughout November, all the articles on Fasttrack will be available for free download.


Of course, readers can always receive free email alerts when new articles are posted to Fasttrack or new issues appear by registering on the site (readers don’t have to be subscribers) and signing up for eAlerts.
The ASA needs your help. Nominations are being sought for ASA president-elect and vice presidential candidates for the 2012 election year. Yes, the 2011 elections have yet to be held, but the Committee on Nominations needs time to evaluate nominations to propose the best slate possible in 2012 for these critical positions.

As a member of the ASA, you recognize the importance of leadership in our diverse, complex, and multidisciplinary field. You and all fellow ASA members deserve visionary leaders who can ensure our discipline has a voice at the table …

You and all fellow ASA members deserve visionary leaders who can ensure our discipline has a voice at the table …

The president-elect will be nominated from government (federal, state, local, foreign) and the vice president from academia. Think about your colleagues and associates who are members of the ASA and would make good candidates for these positions. Think about members who have helped run a conference and are active in your section or chapter. Then, nominate your choices for the 2012 president-elect and vice president by emailing Steve Cohen, chair of the Committee on Nominations, at SCCohen@nsf.gov or Ron Wasserstein, ASA executive director, at ron@amstat.org by January 10, 2011. Forward as much information about your nominee as possible, though this is not necessary. We will research each candidate thoroughly and discretely.

Questions and suggestions may be directed to Cohen.
Support Wanted for Statistical Literacy Campaign

Statistics and statisticians are often misunderstood. Many people think statisticians have something to do with numbers, but seem to know little about the positive role data and statistics play in the world around us.

The Royal Statistical Society (RSS) recently interviewed people on the streets of London to get their thoughts about statistics. Comments ranged from “haven’t the foggiest,” “bored,” and “confused” to “you can say what you like with statistics.” Yet, the overall impression was of a public that trusts statisticians, but not the interpretation of statistics. Mistrust was due more to a lack of confidence in those communicating statistics than in the statistics. Many of the people interviewed were interested in improving their understanding of statistics and thought this would improve their trust in data.

Last year, the RSS’s long-term strategy review highlighted the opportunity to do more to meet its charter objective—to promote the public understanding of statistics and the competent use and interpretation of statistics. To achieve this, RSS council mandated a 10-year campaign, called getstats, to create a society in which our lives and choices are enriched by an understanding of statistics. They are confident that, over 10 years, they can lay the foundations for a society in which everyone can read, interpret, and critique data to a level that enables them to be good employees, citizens, and day-to-day consumers of data and statistics.

Why Now (or Never …)?

There is growing and wide active interest in statistics and promoting statistical understanding. The UK government is now making a wealth of public data available through its recently launched data.gov.uk initiative, led by Internet creator Sir Tim Berners-Lee. Google has unveiled its PublicDataExplorer, based on the Trendalyser tools developed by Hans Rosling. Recognition that statistics can and should be celebrated has come with the first World Statistics Day that was held on October 20. Our campaign can help bring these initiatives and many others into a mutually supportive network.

Achieving Our Goals

The getstats vision requires a cultural change so statistics are seen as enriching people’s lives and helping them make choices, rather than something to be feared or mistrusted. An important pillar of the campaign will be supporting value-driven statistics teaching and learning, building understanding of what statistics are and what they can do in other subjects’ contexts—in schools, colleges, the workplace, and lifelong learning. The changes sought cannot be achieved overnight or in isolation, so we will be working closely with existing and new strategic partners to achieve the following:

- Create more awareness of the benefits of statistics and statistical know-how
- Increase the level of statistical knowledge and skills and people’s confidence in using them
- Increase the positive use of statistics in all areas of education, the media, and policymaking, as well as in the choices people make

This article originally appeared in the June issue of the Royal Statistical Society’s newsletter, RSS News. It is reprinted with permission.
• Improve attitudes toward the use of statistics, leading to an improved image and perception of the discipline and statisticians wherever they work

Initial Strategy
The campaign strategy is to use targeted projects that move key audiences from awareness to interest; to changes in attitude; and then to greater confidence, understanding, and use of statistics. In its first two-year phase, the campaign will focus on raising awareness and interest, aligning with key partners to work in the following areas:

• To seek out sponsors and support for the initiative
• To undertake research to analyze the use of statistics in the school curriculum, review interventions on an international basis, and benchmark statistical understanding
• To work with specialist and local geographical groups and empower them to undertake outreach activities
• To develop Significance [magazine] as a tool to help teach any school discipline in which data and statistics are involved
• To build www.getstats.org.uk into a portal for statistical literacy for the general public and interested specialists, using social media to generate discussion and involvement in the campaign
• To develop further links with the media through an RSS media fellowship, national training coordination, and media awards scheme
• To enhance awards by extending them into other statistical literacy–based categories

Support the Campaign and Get Involved
This is a bold and ambitious campaign to change a culture and, as previously stated, the RSS does not intend to go it alone. Colleagues have already developed a network of partners and are continuing to strengthen this network. The ASA and its members have a lot to offer getstats and are encouraged to share their thoughts about good practice in the development of statistical literacy and recently developed resources that can help build statistical literacy. If you would like to get in touch with the campaign team, send an email to getstats@rss.org.uk or visit www.getstats.org.uk to register your support and suggest ways to get involved. The team is keen to hear from you.
A decade ago, I was seeking a tenure-track assistant professor position because I thought it was what I was supposed to do. I did not know how my professional journey would develop. What I had always known, though, was how comfortable I felt as the “outlier.”

I was trained as an industrial engineer at a smallish institution, taking minors in physics, psychology, and foreign languages. For my graduate work at Northwestern University (NU), my core concentrations were in operations research and management sciences, but my passion was statistical experimental design. After graduation, I served as a mathematical statistician in the National Institute of Standards and Technology’s (NIST) Information Technology Laboratory. I also worked for a year as a science adviser on Capitol Hill. Today, I’m a senior engineer at the U.S. Government Accountability Office (GAO).

As you see, I have somehow managed to remain a unique data point, “an extreme deviation from the mean,” no matter what I’ve worked on.

**Outlier at NU**

At Northwestern, because I was an engineer who was passionate about design of optimal experiments, a lot of my graduate school elective learning was in statistics. As a student, I loved attending the Fall Technical Conference, the Spring Research Conference, and the Joint Statistical Meetings. Most of the time, I was the only student from my program attending these events, so proving the value of my work demanded additional effort.

**Outlier at NIST**

With my new PhD in industrial engineering and management sciences in hand, I was offered a position as mathematical statistician in one of the most wonderful federal research labs a statistician can land in. I formulated suggestions and advice relating to the conduct of experiments, data exploration, analysis of uncertainty, and other analytic applications. Few made note that I never claimed to be a statistician.

**Outlier on Capitol Hill**

In 2008, I served a member of the U.S. Congress as primary adviser on science, space, technology, and telecommunications. I had come to the Hill on a special assignment from NIST as a Department of Commerce Science and Technology Fellow. In this fast-paced environment, my statistics background helped me make unique connections and figure out building blocks and implications even faster. Being part of the work force on the Hill made me a stronger professional and wiser citizen.

Now I work for GAO in Washington, DC, which is commonly referred to as the investigative arm of Congress. The GAO supports Congress in meeting its constitutional responsibilities to legislate, appropriate funds for, and oversee the federal government for the benefit of the American people. I am part of the GAO’s Applied Research and Methods Team, providing technical expertise to the agency’s other teams as they audit or evaluate scientific and technological issues. I also support and lead technology assessments and technical audits. In serving this way, I have found my work interesting, challenging, and rewarding.

My journey has been satisfying, despite my having worn several hats. Perhaps I should attribute this to the unique combination of communication skills—technical and personal—people claim I have. But I also need to give credit to my training in engineering and, in particular, statistics for my fascinating experiences.

Whether you are majoring in mathematics, statistics, science, or engineering, you will be valued no matter what you end up doing. You will find it challenging, but extremely rewarding, to be able to contribute in unique ways. Keep in mind that the challenge in seeking nontraditional roles makes playing them exciting and can give you well-desired experience.

A solid training in statistics is a foundation for wonderful careers. The demand for traditional opportunities is huge and, thus, investing in them is a sound choice. But, opportunities for outliers like me seemingly have no limit.
The National Institute of Statistical Sciences (NISS) simultaneously celebrated the 20th anniversary of its creation and the 10th anniversary of the formation of its affiliates program.

The pre-history of NISS goes back to a 1984 meeting of the Institute of Mathematical Sciences at Lake Tahoe. There, a number of visionaries realized how much the statistical sciences would benefit from deeper engagement in cross-disciplinary research and that an institute was a key component to making this happen. A proposal was sent to the National Science Foundation (NSF) for a panel study on cross-disciplinary research. The resulting report, coauthored by Ingram Olkin and Jerome Sacks, was published in 1988.

Responding to the report, the ASA conducted a feasibility study to assess the scientific and financial viability of an institute. The result was positive, and a site selection competition ensued. Proposals were made by several locations across the United States, but the selection committee chose the one from the Research Triangle Park (RTP) region of North Carolina—one of the most statistically active areas in the country. Three major research universities (Duke, North Carolina State, and The University of North Carolina at Chapel Hill), all of which have outstanding statistics and biostatistics departments, provided release time for faculty and students to participate in the fledgling institute’s activities.

The Research Triangle Foundation offered a six-year start-up grant, and the Triangle Universities Center
for Advanced Studies, Inc. (TUCASI) provided a 99-year lease on a five-acre building site for $1 per year. The Research Triangle Institute (now RTI International) provided initial space and computer support at no cost to NISS. SAS Institute offered free SAS software to the initial start-up group. And, perhaps most important, the state of North Carolina provided funds for construction of a building for NISS.

The founding ceremony was held December 3, 1990, with Gov. James Martin as keynote speaker. Daniel Horvitz of RTI became the interim executive director, and Albert Bowker of the University of California, Berkley, became the first chair of the board of trustees. Jerome Sacks was appointed founding director in 1991, and Alan Karr became associate director in 1992.

NISS rapidly began working on projects funded by several government agencies, including the U.S. Environmental Protection Agency, NSF, and the National Center for Education Statistics (NCES). These featured deep engagement of postdocs, which has become a defining trait of NISS.

NISS moved into its own building on the TUCASI campus in 1997. In 2000, Jerry Sacks retired and Alan Karr took over as director.

In 2000, NISS created the affiliates program to address challenges arising in government and industry, adding “cross-sector” to cross-disciplinary as a focus. By year’s end, there were more than 40 members from industry, government, and academia. In 2005, the ASA recognized the affiliates with its SPAIG (Statistical Partnerships among Academia, Industry, and Government) Award. Today, the affiliates program is inseparable from the identity of NISS.

In 2002, the establishment of the Statistical and Applied Mathematical Sciences Institute, the partner of NISS and co-occupant of the building, led to a richer scientific environment, new theory and methodology for NISS projects to follow up on, and—in 2008—completion of an addition to the building.

At age 20, NISS is more vibrant and active than ever, with several major research projects under way, including studies with the National Agricultural Statistics Service, NCES, Project Talent, and a syndromic surveillance project involving multiple universities and funding sources.

As NISS continues to build its ties with the federal statistical agencies, it is in the midst of strengthening and systematizing its Washington presence. Already, three postdocs and two employees are based there. Starting in 2011, Nell Sedransk, associate director, will lead the DC presence. Reflecting NISS’s ongoing growth, an RTP-based deputy director is being recruited.

The affiliates program continues to thrive, as well. Recently, affiliates clusters were created to focus attention and promote networking among people from affiliates with similar interests.

The next 20 years of NISS promise to be as exciting and diverse as the first. The statistics community will continue to play a vital role in serving the nation, and NISS intends to remain at the forefront of mobilizing research and delivering answers.
In recent years, the Painlevé equations, particularly the six Painlevé transcendent PI, ..., PVI, have emerged as the core of modern special function theory. In the 18th and 19th centuries, the classical special functions such as the Bessel functions, the Airy function, the Legendre functions, and the hypergeometric functions were recognized and developed in response to the problems of the day in electromagnetism, acoustics, hydrodynamics, elasticity, and other areas. In the same way, around the middle of the 20th century as science and engineering continued to expand in new directions, a new class of functions—the Painlevé functions—started to appear in applications. The list of problems now known to be described by the Painlevé equations is large, varied, and expanding rapidly. The list includes, at one end, the scattering of neutrons off heavy nuclei and, at the other, the statistics of the zeros of the Riemann-zeta function on the critical line $\Re z = 1/2$.

Over the years, the properties of the classical special functions—algebraic, analytical, asymptotic, and numerical—have been organized and tabulated in various handbooks such as the Bateman Project or the National Bureau of Standards’ Handbook of Mathematical Functions. What is needed now is a comparable organization and tabulation of the properties of the Painlevé functions. This is an appeal to interested parties in the scientific community for help developing the Painlevé Project.

Although the Painlevé equations are nonlinear, much is already known about their solutions, particularly their algebraic, analytical, and asymptotic properties. This is because the equations are integrable in that they have a Lax-Pair and a Riemann-Hilbert representation from which the asymptotic behavior of the solutions can be inferred using the nonlinear steepest-descent method.

The numerical analysis of the equations is less developed and presents novel challenges, particularly in contrast to the classical special functions. Where the linearity of the equations greatly simplifies the situation, each problem for the nonlinear Painlevé equations arises essentially anew.

A site has been established for the Painlevé Project, maintained at the National Institute of Standards and Technology (NIST), where interested readers can send material. Depending on the response to this appeal, a wiki for the Painlevé equations may be set up and a comprehensive online handbook created.

Material being sought includes the following:

- Pointers to new work on the theory of the Painlevé equations—algebraic, analytical, asymptotic, or numerical
- Pointers to new applications of the Painlevé equations
- Suggestions for possible new applications of the Painlevé equations
- Requests for specific information about the Painlevé equations

How to Use the Site

You must be a subscriber to post messages. To become a subscriber, send an email request to Daniel Lozier at daniel.lozier@nist.gov. To post a message, send an email to PainlevProject@nist.gov. The message will be forwarded to every subscriber.

For the complete archive of posted messages, visit http://cio.nist.gov/esd/emaildir/lists/painleveproject/threads.html. This archive is visible to anyone. For the complete list of subscribers, visit http://cio.nist.gov/esd/emaildir/lists/painleveproject/subscribers.html. This list is visible to anyone.
Loebsack Introduces Bill Promoting Statistical Literacy

Members urged to ask reps to cosponsor bill

Steve Pierson, ASA Director of Science Policy

n late September, Rep. David Loebsack of Iowa introduced the Statistical Teaching, Aptitude, and Training Act of 2010 (STAT Act of 2010), a bill promoting K–12 statistics education. The bill, H.R. 6355, would make funding for professional development and statistical education programs available to local education agencies in states with statistical literacy plans approved by the U.S. Secretary of Education.

In preparing to introduce the bill, Loebsack emphasized the importance of making sure this and future generations of students have the statistical skills needed to cope in our increasingly data-centric world. “With the daily need to make decisions based on data and uncertainty—whether it be in financial and medical decisions or in one’s job—we need to make sure our students have the statistical training to prepare them for life in the 21st century,” Loebsack said. “I’m proud to introduce this bill to help our students be statistically literate and to give teachers the training and resources to prepare them.”

Loebsack, a member of the House Education and Labor Committee, was previously a political science professor at Cornell College, where he was a colleague of ASA member and statistics professor Ann Cannon. According to Cannon, who approached Loebsack about promoting statistical literacy, “[Loebsack] was known at Cornell College as being a good instructor who cared about how he interacted with the students both in and out of the classroom. Over the years, he and I have had many conversations about the role of statistics in many fields, including politics. He has a great respect for the field and how important it is in so many other fields.”

The bill, written with significant help from the ASA’s statistical education experts, can be found at www.amstat.org/outreach/pdfs/STAT_Act2010.pdf and has four parts. The Findings section cites the importance of statistical literacy to decision-making and dealing with uncertainty, its “value added” to math and science education, and its benefits for a more competitive and better-prepared work force and more effective citizenship.

Chapter A specifies the requirements for a state statistical literacy plan and a state statistical literacy advisory panel.

Chapter B states the rules for how an “eligible partnership”—a local educational agency (LEA) partnering with another LEA; a teacher training department or professional development center of an institution of higher education; or a federal, state, or regional statistical agency—can apply for a professional development grant.

Chapter C outlines guidance for grants to develop and implement state statistics curriculum frameworks or policy approaches to advancing statistics education; disseminating effective statistics education programs, or studying statistics education assessment.

Chapter D defines statistical literacy and authorizes funding for the bill.

The bill is part of the ASA’s efforts to promote statistical literacy nationally. ASA members will recall that statistical literacy

Science Policy Actions

The ASA signed a letter in support of the FY11 budget request for the U.S. Census Bureau and American Community Survey.

The ASA signed a letter in support of the FY11 budget request for the National Science Foundation.

The ASA and ASA president signed letters to the National Academies’ Board on Science Education Committee on the New Science Education Standards Framework.

The ASA nominated a member to the National Assessment Governing Board.

The ASA signed a letter urging Senate passage of the America COMPETES Act.
Urge Your Representative to Cosponsor H.R. 6355

The Statistical Teaching, Aptitude, and Training (STAT) Act of 2010 presents a wonderful opportunity for ASA members to educate their U.S. representatives about statistical literacy and to gather support for improving K–12 statistics education. Please join your fellow ASA members in the grassroots campaign to gather cosponsors for this bill by signing up at www.amstat.org/outreach/statliteracy. Already, 50 ASA members and chapters have signed up, and a few dozen have met with their U.S. representatives or congressional staff.

The ASA will provide guidance for all aspects of the meetings, including how to request meetings, how to conduct an effective meeting, and how to make an effective case for statistical literacy. The ASA also will provide material to use in your meetings.

was a focus of the 2009 congressional visits, when 60 ASA members visited 120 congressional offices. The ultimate congressional objective is for statistical literacy to be advanced in the upcoming reauthorization of the Elementary and Secondary Education Act Reauthorization (also known as No Child Left Behind).

Acknowledging Congress’s recognition of the importance and its promotion of science, technology, engineering, and math (STEM) education, the ASA has emphasized the need to make sure statistics is explicitly included in existing and proposed STEM programs. To avoid the perception that teaching statistics supplants teaching other STEM topics, the ASA has noted the existence of statistics in many textbooks and curricula and emphasized the need to make sure teachers have the training and support to teach statistics well. The ASA also has highlighted the fact that statistics education enhances science and math education through its teaching of the scientific process and critical analysis and its extensive use of mathematics.

With the inclusion of statistics in the Common Core State Standards initiative (see http://magazine.amstat.org/blog/2010/05/13/commoncore5_10), teachers prepared to teach statistics will be all the more important. This bill helps highlight this need.

Given the limited time left in this Congress’s legislative schedule, this bill—and the Elementary and Secondary Education Act reauthorization—would be taken up in the next Congress, which would require reintroduction next year. Nevertheless, it is important to promote this bill over the next few months to show it has strong support and to start the long process of educating Congress about statistical literacy.

With Loebsack’s introduction of the STAT Act, it’s now up to ASA members to promote the bill. Please join the ASA statistical literacy campaign by signing up at www.amstat.org/outreach/statliteracy.
Making the Transition from Coursework to Research

Stacey J. Winham and Danny R. Modlin

A fter decades of scholastic activity as a student in a classroom setting, finishing your coursework and moving to the research portion of your degree can be exhilarating and nerve-racking. The final portion of your academic journey—the dissertation—begins with this transition and the choice of a PhD thesis adviser and research area. It is important that you think carefully about this choice, as it can affect the rest of your graduate school career and future career path.

Rarely can a student find both the perfect adviser and research area simultaneously. Finding the right fit involves some level of trade-off, but achieving balance between adviser and research area is essential. Students typically accomplish it through one of two approaches:

1) Choose an adviser and the research area follows

2) Choose a research area and the adviser follows

Choosing an Adviser: Stacey’s Story

I began my transition through my choice of adviser. I was initially interested in statistical genetics, but had few thoughts about a direction within that expansive area. I have a broad set of interests, so I knew I would be satisfied with most areas of study. What was most important to me was not necessarily what I would study, but whom I would be working with and the relationship we might have. Once I found the right adviser, I knew the right research area would follow.

If this sounds like you, I suggest you first ask yourself several broad questions to identify exactly what or who you are looking for. Begin by focusing on personality type. Do you want your adviser to be relatively hands off, allowing you to dictate your own course of study, or would you prefer an adviser who is more involved? Do you prefer structured and organized or flexible and spontaneous? I am a relatively methodical worker who likes to plan ahead, so I felt that working with someone less organized might be stressful and frustrating.

Also, focus on the types of work and activities in which a potential adviser might be involved. Do you want an adviser who does a lot of outside consulting or works with many collaborators? What about the number or impact of their publications? Because I wanted to focus on applications, rather than theory, an opportunity for collaboration was imperative to me.

Once you’ve identified these general qualities, focus on who can give you what you need. For instance, if you want an adviser who can devote a lot of time to you, maybe you should consider a junior faculty member with fewer graduate students. However, if the strong impact of your adviser’s work is paramount, a senior faculty member might be more appropriate. Additionally, what type of connections do the various faculty members in your department possess? Who works with collaborators you might be interested in, and might they be able to help you find a job once you graduate?

Next, start to shop around. Browse your department website to learn more about the interests and activities of the faculty. Skim some of their papers and talk to their students. Most importantly, ask a lot of questions. You may ask other students, but don’t hesitate to ask faculty members directly. Set up a time to talk, so you can get to know them and their research and they can get to know you.

Ask a professor you trust for recommendations, since they will know a bit about your personality, interests, and credentials. Possibly one of the best things I did was sign onto a small data analysis project over the summer before making my choice. I was able to get an introduction to the type of work involved in my adviser’s research area and an idea of how we would work together. After working on a couple of these small projects, I knew she was the right fit. Since that time, I have gradually developed a passion for the research area.
Choosing a Research Area: Danny’s Story

My transition to research began during a summer in which I was in need of funding. I approached the program director and asked if she knew of any professors who had a project that could provide funding. Not long after, she presented me with the opportunity to assist in a hurricane forecasting project. Throughout that summer, I provided input into the methods used in the forecast calculations and was trained by the soon-to-be graduating meteorology student to take over producing the forecasts.

Being from eastern North Carolina and having a prior interest in hurricanes, I enjoyed my summer work. As the summer ended, the collaborator, my statistics faculty contact, and I sat down and discussed several issues within hurricane modeling with which statistics could assist. From that conversation, my statistics faculty contact became my research adviser and the meteorology collaborator became my co-adviser.

There are benefits to selecting your research area prior to your adviser. One is the ability to guide your research to your choice of theory or application. Everyone has decided whether they are more theoretical or more applied. Although your adviser will usually give you options for research directions, it is rewarding to have input into this important feature of research.

I knew I had an interest in hurricanes, but working with hurricane forecasting gave me the ability to perform statistical analysis on hurricane data. This project introduced me to scientists outside my statistics department and gave me the opportunity to learn about how statistics could benefit another research field. The relationship with my collaborator led to his becoming my co-adviser, which opened up more possibilities for publishing papers. He also introduced me to and directed me toward people who have provided information about continuing my research as a career. Though it may not be ideal for everyone, I think my approach to finding a research adviser served me well.

Making the Transition

Once you’ve chosen an adviser and research area, the next step is to begin your research. One of the biggest problems students face is staying motivated once they no longer have regular classes and exams. Without those requirements in place, it is all too easy to procrastinate. To avoid this pitfall, we suggest establishing long-term and short-term goals with self-imposed deadlines. Making a (flexible) schedule to provide structure to your days and weeks also helps.

Make sure you don’t isolate yourself. One of the quickest ways to lose motivation is to cut yourself off from those in your department. You may find the emotional support from others going through similar situations to be reassuring.

Furthermore, if you’re having trouble making the transition, consider auditing a course or two. You won’t have to study for tests and complete weekly homework assignments and you will get to learn new information in a structured setting and have the chance to interact with classmates. Also, as your research progresses, don’t be afraid to ask questions. Just because you’ve finished your coursework does not mean you’re expected to know everything, so try not to put too much pressure on yourself. Remember that every great work starts with a small first step.
With persistent spiraling health care costs and the passage of the health care reform bill (Affordable Healthcare for America Act), the need to improve the effectiveness and efficiency of clinical care delivery is greater than ever. One of the models often mentioned by the Obama administration as a high-performing organization that reduces health care costs is Intermountain Healthcare's integrated system. An integrated health care system provides patients with coordinated service delivery across the continuum of care, from physician office visits to hospitalizations and back to outpatient care.

As a fully integrated delivery system, Intermountain also owns and operates a health plan with multiple insurance products. One of the cornerstones of Intermountain's success is their data-driven approach to providing the highest quality of care at the lowest cost using evidence-based medicine and sophisticated process improvement strategies supported by a state-of-the-art electronic health record.

Intermountain Healthcare's integrative approach is achieved by first categorizing care into service line categories. Each service line category is managed by an organizational entity called a “clinical program.” The clinical program concept was conceived by Drs. David Burton and Brent C. James in the 1990s based on a key process analysis. Currently, Intermountain has a clinical program for each of the following service categories:

- Behavioral health
- Cardiovascular
- Emergency and intensive medicine
- Oncology
- Pediatric specialty
- Primary care
- Surgical services
- Women and newborns

Each clinical program has a staffing infrastructure that, at minimum, includes a medical director, an operations director, a data manager, and a statistician (with a job title of outcomes analyst). Statisticians are instrumental to the Intermountain clinical program infrastructure, working as core members of the clinical program teams. They are honed in the Intermountain Institute for Health Care Delivery Research, creating a community of outcomes analysts who dedicate two-thirds of their time to clinical programs responsibilities and the remainder to institute activities around research, consulting, and education/training.

We support three of the eight clinical programs—pediatric specialty, cardiovascular, and women and newborns—with more than 20 years of combined Intermountain experience. Individually, our career paths started in different industries, but converged at Intermountain, given a shared interest in applying statistical tools and concepts to health care delivery.

An integrated health care system consists of many teams within and across clinical programs. As core members of these teams, statisticians’ key functions are to retrieve data, analyze data, and summarize results. Specific applications of these include the following:

- Routine feedback reporting to clinical teams for monitoring care processes and board goal progress
- Applying a clinical epidemiology perspective to population management
- Assessing tests of change from continuous quality improvement initiatives
- Building the evidence base through clinical and outcomes research

Although the eight clinical programs are unique, their organizational structure is similar. Clinical program statisticians need to have the following knowledge base/skills in fulfilling key functions:

- Statistical methods and research design
- Quality improvement science, concepts, and tools
- Health care delivery and reimbursement
- Strong analytical skills
- Effective communication skills
- Statistical software applications programs (e.g., SAS and Statit)
- Structured query language (SQL) programming for large data sets
- Ability to use and/or learn a variety of software applications for reporting or presenting results
- Ability to summarize and present results in table, graphical, or presentation formats
- Ability to mentor or teach quality improvement, statistical, or research methods to various types of health care professionals
Fundamentals of Probability: A First Course
A. DasGupta, Purdue, West Lafayette, IN, USA


Logistic Regression
A Self-Learning Text
D. G. Kleinbaum, M. Klein, Emory University, Atlanta, GA, USA


Fundamentals of Clinical Trials
L. M. Friedman; C. D. Furberg, Wake Forest University, School of Medicine, Winston-Salem, NC, USA; D. L. DeMets, University of Wisconsin, Madison, WI, USA


Statistical Image Processing and Multidimensional Modeling
P. Fieguth, University of Waterloo, ON, Canada


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For instance, to improve the overall quality of care within a health care system or clinical service line, processes for caring for patients need to be identified and prioritized according to volume, cost, and variation. A health care system can then focus quality improvement efforts in the area with the greatest need. Statisticians are typically involved with the data retrieval, analysis, and summarization of this process.

Similarly, statisticians are essential to all the identified quality improvement projects. However, for a statistician to be an effective team member, he or she needs to communicate well in a multidisciplinary setting. Statisticians should understand the details of the care processes that need improving to be most helpful. Similar to the initial identification and prioritization process, the team will need help identifying the best opportunities for improvement.

The need for data retrieval, analysis, and summarization continues throughout the quality improvement effort. Most quality improvement projects can be tied to a measurable outcome measure. Statisticians are typically the creators of statistical process control or run charts used to monitor quality improvement efforts. Thus, statisticians are essential for identifying, implementing, and evaluating quality improvement efforts within an integrated health care system.

At times, there exist different, but acceptable, methods for care delivery, and the optimal method is unknown. When this occurs, a research experiment could be incorporated into the quality improvement effort, thereby improving the known methods while comparing the effectiveness among them. An integrated health care system is the ideal environment for conducting this type of comparative effectiveness research. In addition to the usual assistance for quality improvement efforts, statisticians can collaborate with research investigators in designing research experiments and contribute to writing research proposals and preparing manuscripts. Best practice in health care can be refined and identified by conducting this type of peer-reviewed research.

Finally, statisticians who are knowledgeable and trained in both quality improvement and outcomes research can serve as mentors or consultants to clinicians. This requires that statisticians stay abreast of emerging design and methodological advances such as comparative effectiveness. The clinical program statisticians at Intermountain Healthcare, in addition to helping their assigned clinical program, serve as consultants to health care professionals enrolled in Intermountain Healthcare’s Institutes for Healthcare Delivery Research training courses in quality improvement, called Advance Training Program. Course participants are typically from other health care institutions.
The Consortium for the Advancement of Undergraduate Statistics Education (CAUSE) will host a one-day ancillary workshop at the Joint Mathematics Meetings in New Orleans, Louisiana, on January 5, 2011. The workshop, “Teaching Introductory Statistics Following GAISE and the Common Core,” will be led by Danny Kaplan of Macalester College and Robert Gould of the University of California, Los Angeles.

GAISE, the Guidelines for Assessment and Instruction in Statistics Education, does not dictate specific content, but gives prominence to approaches that develop statistical reasoning and literacy. The new Common Core Standards for Mathematics, already adopted or being considered for adoption by many states, specifies components of statistical origin, but is not broadly oriented to develop statistical thinking. The workshop will demonstrate ways to align GAISE with the common core content.

There is no registration fee to attend CAUSEway workshops, though advance registration is required. Registration and other information may be found at www.causeweb.org/workshop.

Also at JMM, CAUSE activists Carolyn Cuff and Michael Posner will present a mini-course, structured as a two-part workshop, on January 7 and 9, 2011, which is intended for instructors new to teaching statistics. This mini-course will expose participants to the big ideas of statistics and the ASA-endorsed GAISE Report.

Participants will engage in classic activities all statistics instructors should know. Internet sources for real data, activities, and best practices articles also will be examined. Finally, participants will find out how they can become involved in statistics education–related conferences, newsletters, and interest groups. Registration for the course is done as part of JMM registration. Details can be found at www.ams.org/meetings/national/jmm/2125_intro.html.

Statistics Project Competition
CAUSE continues to seek entries for its third biennial undergraduate statistics project competition (USPROC). The purpose of USPROC is to encourage the development of data analysis skills, enhance presentation skills, and recognize outstanding work by undergraduate statistics students.

Project work must be conducted between fall 2009 and winter 2010/2011, with projects submitted no later than February 28, 2011. The competition is open to any undergraduate student. Project guidelines—including monetary awards, participation, and project scope—are available at www.causeweb.org/usproc.

A-mu-sing Contest
CAUSE proudly announces its third biannual A-mu-sing Contest for all statistics teachers (and students) who enjoy fun. Any teacher, student, or practitioner of statistics is eligible to enter unpublished examples of statistics jokes, cartoons, songs, poems, or videos for a chance to win cash prizes, publication on CAUSEweb, and recognition at USCOTS 2011. Entry deadline is April Fool’s Day (April 1), 2011. See www.CAUSEweb.org/contest for rules and an entry form.

Several hundred items for fun learning are available at no cost for educational purposes at www.CAUSEweb.org/resources/fun. A-mu-sing entries will be considered for inclusion in the CAUSEweb digital library of resources for undergraduate statistics teachers.
The U.S. Senate recently confirmed **Subra Suresh**, President Barack Obama's nominee for director of the National Science Foundation (NSF), for a six-year term.

Suresh, 54, served as dean of the engineering school and as Vannevar Bush Professor of Engineering at the Massachusetts Institute of Technology (MIT). A mechanical engineer who later became interested in materials science and biology, Suresh has done pioneering work studying the biomechanics of blood cells under the influence of diseases such as malaria.

From 2000 to 2006, Suresh served as head of the MIT Department of Materials Science and Engineering. He joined MIT in 1993 as the R.P. Simmons Professor of Materials Science and Engineering and held joint faculty appointments in the departments of mechanical engineering and biological engineering, as well as the division of health sciences and technology.

Suresh holds a bachelor's degree from the Indian Institute of Technology in Madras, a master's degree from Iowa State University, and an ScD from MIT.

Obama nominated Suresh to become the new NSF director on June 8. He replaces Arden L. Bement Jr., who led the agency from 2004 until he resigned in May.

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**Obituary**

**William (Bill) Douglas Warde**

Bill Warde was born on February 9, 1943. He attended the UK Royal Air Force schools and the University of London, earning a bachelor's degree in statistics in 1965. He continued his education, earning a master's in statistics from Florida State University in 1968 and a PhD in applied statistics from Iowa State University in 1972. Soon after, he joined the faculty of the statistics department at Oklahoma State University, where he continued for 38 years.

At OSU, Warde rose in the ranks, serving as head of the department between 1998 and 2008. He also served as chair of the faculty council. Warde was popular with master's and PhD students across campus, especially with those who needed statistics consulting help.

He taught and conducted research in survey sampling and spent a sabbatical at the U.S. Census Bureau in Washington, DC, in 1986.

Warde's lifelong passion was the Boy Scouts. He served with the UK and U.S. organizations for 59 years and rose through the ranks to Cimarron Council Commissioner. In addition, he was Cubmaster of Pack 3801 and committee member of Troop 828.

Warde was a leader for honor societies on campus, including Sigma Xi and Phi Kappa Phi. He was also a civic leader, serving on the board of the university and Community Federal Credit Union in Stillwater and with the Rotary Club.

He was an active member of the American Statistical Association and its Oklahoma Chapter. He actively participated on many committees and was a strong supporter of the organization.

Warde and his wife, Mary Jane, raised two sons, Colin and Chris. They have one grandson, Luca. They were also active members of the Perkins Church of Christ.

Warde departed peacefully on August 3 in his sleep, after leading a memorable life. He will be missed by all those who loved him or had come to know and/or work with him.

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Read about your colleagues and friends in the news. Go to www.amstat.org and click on “Statisticians in the News.”
Introducing

Salford Systems Predictive Modeling Suite (SPM) is a highly accurate and ultra-fast platform for developing predictive, descriptive, and analytical models from databases of any size, complexity, or organization. Salford SPM automation accelerates the process of model building by conducting substantial portions of the model exploration and refinement process for the analyst. While the analyst is always in full control, we optionally anticipate the analyst’s next best steps and package a complete set of results from alternative modeling strategies for easy review. Do in one day what normally requires a week or more using other systems.

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RandomForests features include clusters and segments, anomaly tagging, and multivariate class discrimination.

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Salford Systems’ tools have dominated the fiercely contested field of data mining competitions for nearly a decade.
Since 2000, no other vendor has come close to our record of consistent out-performance.

2010 DMA Analytics Challenge
Make-A-Wish Foundation Targeting Solution, Lapsed Donor Segments

INFORMS 2009
Healthcare Quality Task

2009 KDDCup
CRM task, telecom dataset

2008 DMA Analytics Challenge
Direct Marketing Optimization task

2008 Scientific Computing
Data Mining Readers’ Choice Award

2007 DMA Analytics Challenge
Targeted Marketing task

2007 PAKDD
Cross-selling task, financial dataset

2006 PAKDD
Upselling task, telecom dataset

2004 KDDCup
Particle Physics task

2002 Duke/TeraData
Churn Modeling, CRM

2000 KDDCup
Web Analytics

For more information and a free, fully functional 90 day SPM evaluation, visit:
www.salford-systems.com/amstat2010.html
Deadlines and Contact Information for ASA National Awards, Special Lectureship, COPSS Awards

December 15, 2010
COPSS Fisher Lectureship and Award
Michael Newton
newton@stat.wsic.edu

December 31, 2010
ASA Noether Senior and Young Scholar Awards
Nominations: Pam Craven
pamela@amstat.org
Questions: Pranab K. Sen
pksen@bios.unc.edu

January 15, 2011
COPSS Presidents’ Award
Mary E. Thompson
methomps@uwaterloo.ca

January 15, 2011
COPSS Florence Nightingale David Award
Alice S. Whittemore
alicesw@stanford.edu

January 15, 2011
COPSS George W. Snedecor Award
Barry I. Graubard
graubarb@mail.nih.gov

March 4, 2011
ASA SPAIG Award
Barry D. Nussbaum
nusbaum.barry@epa.gov
Rahul A. Parsa
Rahul.Parsa@drake.edu
Morteza Marzjarani
marzjara@svsu.edu

March 9, 2011
ASA Statistics in Chemistry Award
Kenneth M. Goldberg
kgoldber@its.jnj.com

March 15, 2011
ASA W. J. Dixon Award for Excellence in Statistical Consulting
Nominations: Pam Craven
pamela@amstat.org
Questions: George A. Milliken
Milliken@ksu.edu

March 15, 2011
ASA Founders Award
Nominations: Pam Craven
pamela@amstat.org
Questions: Sastry G. Pantula
pantula@stat.ncsu.edu

March 15, 2011
ASA W. J. Youden Award in Interlaboratory Testing
Nominations: Pam Craven
pamela@amstat.org
Questions: Chih-Ming Wang
jwang@boulder.nist.gov

March 15, 2011
ASA Waller Education Award
Nominations: Pam Craven
pamela@amstat.org
Questions: June Morita
june@stat.washington.edu

2011 Don Owen Award Call for Nominations

The San Antonio Chapter is accepting nominations for the 2011 Don Owen Award from ASA chapters in North America. The nominee must be a member of the ASA, but is not required to be a member of the nominating chapter. In addition to a cover letter highlighting the accomplishments of the nominee, the nomination packet must contain the following:

1. Name of the nominee

2. Degrees (titles, dates, schools)

3. Present position(s), followed by significant former positions (with dates)

4. List of major publications having statistical content

5. List of activities related to teaching and dissemination of statistical knowledge

6. List of consulting activities related to statistical problems or editorial contributions

7. List of activities supporting the mission of the ASA and related professional organizations

To submit a nomination, send six copies of the nomination packet by February 1, 2011, to Keying Ye, Department of Management Science and Statistics, The University of Texas at San Antonio, One UTSA Circle, San Antonio, TX 78249-0632.

The Don Owen Award is presented to a statistician who embodies excellence in research, statistical consultation, and service to the statistical community. For further information, contact Ye at keying.ye@utsa.edu with “Owen Award” in the subject field.
Biometrics

The Biometrics Section invites members to the upcoming Eastern North American Region (ENAR) Spring Meeting March 20–23, 2011, in Miami, Florida. To view the program, visit www.enar.org/meetings.cfm.

Also, proposals for topic-contributed talks are being collected for JSM 2011. If you are interested in organizing a session, contact section program chair, Tianxi Cai, at tcai@hsph.harvard.edu. While the deadline for submitting topic-contributed session abstracts is February 2, 2011, proposals should be sent to the program chair as early as possible.

Finally, applications are being accepted for the 2011 David P. Byar Young Investigator Award. This annual award is given to a young investigator for best emerging work to be presented at JSM. In addition to the Byar Award, the section may provide travel awards to authors of other outstanding papers submitted to the competition. More information can be found at www.bio.ri.ccf.org/Biometrics.

For detailed information about the Biometrics Section, visit the section news department at http://magazine.amstat.org/?cat=17.

Statistics and the Environment

A detailed list of upcoming conferences of interest to members of the Statistics and the Environment Section can be found at http://magazine.amstat.org/?cat=17.

Physical and Engineering Sciences

JSM 2010 was full of events and successes for the section. Three SPES-sponsored roundtables highlighted topics from renewable energy to optimization of designed experiments. Awards were given for the best contributed posters at the traditional Tuesday evening joint SPES/Q&P mixer.

The annual SPES executive committee meeting also took place, at which the budget was reviewed. While dues have declined, revenues from continuing education courses have been good, so the committee would like to allocate funds to improve recruitment and retention of members and is open to suggestions for effectively spending these funds.

Randy Tobias, SPES webmaster, received approval to redesign the website, www.amstat.org/sections/spes, in 2011.

The Marquardt Industrial Speakers Program sponsors speakers from industry to give talks to academia. Jennifer Van Mullekom, 2011–2012 Marquardt chair, hopes to revitalize this program, so contact her at Jennifer.H.Van-Mullekom@usa.dupont.com if you are interested in speaking or hosting.

The Chemometrics chair position is open for 2011. If you are interested, contact Phil Scinto, chair-elect at phil.scinto@ Lubrizol.com.

If you have ideas for leading a roundtable at JSM 2011 in Miami Beach, Florida, contact Paul Kvam at paul.kvam@isye.gatech.edu.

For detailed information about the Section on Physical and Engineering Sciences, visit http://magazine.amstat.org/?cat=17.

Statistical Computing

The Statistical Computing Section announces the competition for the John M. Chambers Statistical Software Award, an annual prize for statistical software written by a student. Teams of up to three people can participate in the competition, with the cash award of $1,000 being split among them. All application materials must be received by February 21, 2011. For details, visit the section website at www.statcomputing.org or Amstat News online at http://magazine.amstat.org/?cat=17.

Statistical Computing and Statistical Graphics

The Statistical Computing and Statistical Graphics sections are cosponsoring a student paper competition on the topics of statistical computing and statistical graphics. The deadline to submit a paper is December 13. The selected winners will present their papers in a topic-contributed session at JSM 2011 in Miami, Florida. For details, visit the section website at www.statcomputing.org or Amstat News online at http://magazine.amstat.org/?cat=17.
December

For information, contact Walter Young, 16 Harrow Circle, Wayne, PA 19087-3852; (610) 989-1622; demingchair@gmail.com.

2011

January

*5–7—2011 Living to 100 Symposium, Orlando, Florida
For information, visit http://livingto100.soa.org or contact Jan Schuh, 475 N. Martingale Road, Suite 600, Schaumburg, FL 60173; jschuh@soa.org.

7–8—First Lisbon Research Workshop on Economics and Econometrics of Education, Lisbon, Portugal
For information, visit http://cemapre.iseg.utl.pt/events/1e3 or contact Vera Lameiras, Rua do Quelhas 6, Lisbon, International 1200-781; +351 213925876; cemapre@iseg.utl.pt.

March

21–24—Analyzing Risk: Science, Assessment, and Management, Boston, Massachusetts
For information, contact Maryanne Dearborn, CCPE - Dept. A, 677 Huntington Ave., Boston, MA 02115; (617) 384-8685; ccpemarketing@hsph.harvard.edu.

April

21—The 18th Federal Forecasters Conference, Washington, DC
For information, visit www.federalforecasters.org or contact Jeff Busse, 12201 Sunrise Valley Drive, Reston, VA 20192; (703) 648-4914; jbusse@usgs.gov.

May

26–29—International Conference on Risk Analysis - ICRA4, Limassol, Cyprus
For information, visit www.ucy.ac.cy/icra4 or contact Alex Karagrigoriou, Dept. of Math & Statistics, Nicosia, International 1678, Cyprus; +357-22892634; alex@ucy.ac.cy.

July

4–5—Patient Reported Outcomes and Quality of Life, Paris, France
For details, visit www.lsta.upmc.fr/mesbah/PROQOL or contact Mounir Mesbah, LSTA, 4, place Jussieu, Paris, International F75005, France; +33144278580; mounir.mesbah@upmc.fr.

* Indicates events sponsored by the ASA or one of its sections, chapters, or committees.

To view the entire list of statistics meetings and workshops, visit www.amstat.org/dateline.
Professional Opportunity listings may not exceed 65 words, plus equal opportunity information. The deadline for their receipt is the 20th of the month two months prior to when the ad is to be published (e.g., May 20 for the July issue). Ads will be published in the next available issue following receipt.

Listings are shown alphabetically by state, followed by international listings. Vacancy listings may include the institutional name and address or be identified by number, as desired.

Professional Opportunities vacancies also will be published on the ASA’s website (www.amstat.org). Vacancy listings will appear on the website for the entire calendar month. Ads may not be placed for publication in the magazine only; all ads will be published both electronically and in print.

Rates: $320 for nonprofit organizations (with proof of nonprofit status), $475 for all others. Member discounts are not given. For display and online advertising rates, go to www.amstat.org/ads.

Listings will be invoiced following publication. All payments should be made to the American Statistical Association. All material should be sent to Amstat News, 732 North Washington Street, Alexandria, VA 22314-1943; fax (703) 684-2036; email advertise@amstat.org.

Employers are expected to acknowledge all responses resulting from publication of their ads. Personnel advertising is accepted with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual orientation.

Also, look for job ads on the ASA website at www.amstat.org/jobweb.

California

Statistics—tenure-track position.
Statistics Department, Cal Poly, San Luis Obispo, CA has a full-time, academic year position available Sept. 2011. Rank open, commensurate with qualifications and experience. PhD in statistics or related discipline required. Commitment to quality undergraduate teaching, professional development. For information and application instructions (online faculty application required), please visit www.calpolyjobs.org and search/apply to requisition #102169. Reviews begin January 7, 2011. EEO.

District of Columbia


Illinois

Applications are invited for research assistant professor (non-tenure track). Effective August 16, 2011. Subject to availability of state funding. Applicants must show evidence of outstanding research potential in mathematics/related field. Expect PhD (or equivalent) by start date. Apply at www.mathjobs.org/jobs/jobs/2298. For

Department of Biostatistics, University of Michigan
Faculty Position in Health Services Research

The Department of Biostatistics at the University of Michigan is seeking applicants for Associate or Full Professor, either tenured or in the research track, beginning in July 2011. The Department seeks an outstanding individual with strength in Biostatistics research and education, and with interest and experience in Health Services Research. The successful candidate would take a leadership role in the University of Michigan Kidney Epidemiology and Cost Center (UM-KECC; http://www.sph.umich.edu/kecc/); lead major projects related to the treatment of end-stage and chronic kidney disease and organ transplantation, and help to coordinate and extend research activities of the unit. UM-KECC is a research group with substantial funding from many projects, consisting of approximately 50 faculty, staff and students from several UM Departments. The Department has particular interest in candidates with an established research record in both biostatistics and health economics.

With 29 faculty members and over 120 full time PhD and Masters students, the Department of Biostatistics has strengths in many methodological areas and has close links with the Department of Statistics, the Institute of Social Research, and the Medical School. More information on the department and the open positions can be found at http://www.sph.umich.edu/biostat. The University of Michigan offers competitive salaries and excellent benefits. Ann Arbor is a progressive city of about 100,000, with excellent schools and a wide variety of sporting and musical activities. It is rated highly in national surveys for its quality of life and has the amenities of a city many times its size.

Consideration of applications will begin immediately and will continue until the position is filled. Send a CV and a statement of research interests and have three letters of reference sent to: Chair of Search Committee, Health Services Research, Department of Biostatistics, School of Public Health, University of Michigan, Ann Arbor, MI 48109-2029, Tel: (734) 936-0989, Email: dinahs@umich.edu.

The University of Michigan is an affirmative action/equal opportunity employer. Woman and minorities are encouraged to apply.
Academia Sinica
Institute of Statistical Science
Regular Research Positions

The Institute of Statistical Science, Academia Sinica, is seeking outstanding candidates for regular research positions at the level of associate or full research fellow available in 2011. Candidates in all areas of Statistics will be considered. Candidates should have a PhD in statistics or related fields. Application materials must include (1) a curriculum vitae, (2) three letters of recommendation and (3) representative publications and/or technical reports. Additional supporting materials such as transcripts for new PhD applicants may also be included. Except for the letters of recommendation, electronic submissions are encouraged. Applications should be submitted to

Dr. Hsin-Cheng Huang
Chair of the Search Committee
Institute of Statistical Science, Academia Sinica
128 Sec. 2 Academia Road, Taipei 11529,
Taiwan, R.O.C.
Fax: +886-2-27831523
E-mail: hchuang@stat.sinica.edu.tw

Applications should be completed by December 31, 2010 for full consideration.

Maryland

The NICHD/NIH biostatistics bioinformatics branch invites applications for tenure-track or tenure-eligible investigator. Statistical research is motivated by analytic issues encountered in large cohorts. Candidates should have experience in bioinformatics, high-dimensional data analysis, and/or statistical genetics methodology. Individuals should email a cover letter describing research and professional accomplishments, CV, and names of three references to alonaberger@mail.nih.gov.

DHHS and NIH are Equal Opportunity Employers.

Massachusetts

Mathematics department at MIT seeking to fill combined teaching and research positions as Simons Postdoctoral Fellow, instructor, assistant professor, and higher in statistics or applied probability beginning Sept. 2011. Appointments based mainly on exceptional research qualifications. PhD required by employment start date. Submit online, www.mathjobs.org: CV, research description, three recommendation letters. Applications should be complete by December 1, 2010. (See full classified text at mathjobs.) MIT is an Equal Opportunity Affirmative Action Employer.

UMass medical school’s Center for Health Policy and Research seeks a health services/health policy researcher. PhD or equivalent required with at least five years’ post doctoral experience. Strong quantitative and research skills, supervisory experience, and publication history required. Qualified candidates will receive a faculty appointment commensurate with qualifications. To apply, visit www.umassmed.edu/commed/careers/current_job_openings.aspx.
NORC at the University of Chicago

NORC conducts high quality social science research in the public interest from its headquarters at the University of Chicago and from its offices in Chicago, IL, Washington, DC, Bethesda, MD, and Berkeley, CA.

We conduct research in economics, demographics, education and child development, health, substance abuse, mental health, justice, and survey quality both in the U.S. and internationally. We offer full-service survey design and operations as well as strengths in analysis, information technology, and technical assistance. NORC supports the research needs of government in the U.S. and abroad, international donor agencies, foundations, academic researchers, and private organizations.

NORC is actively seeking statisticians, survey methodologists, statistical programmers, data managers, survey directors, and social scientists with advanced training or experience in survey research or survey operations. New staff will be based in our Chicago, IL or Washington, DC offices. To learn more about NORC and to apply for employment, visit our website at:

http://www.norc.org/careers

NORC is an affirmative action, equal opportunity employer that values and actively seeks diversity in the workforce.

Department of Health and Human Services
National Institutes of Health
National Institute of Allergy and Infectious Diseases

The National Institute of Allergy and Infectious Diseases (NIAID) conducts and supports a global program of research aimed at improving diagnosis, treatment, and prevention of immunologic, allergic, and emerging infectious diseases. NIAID’s mission is driven by a strong commitment to basic research, which incorporates the complementary fields of vaccine research, immunology, microbiology, and infectious diseases.

NIAID has the following opportunity available:

Mathematical Statistician

The mathematical statistician position is located in the Biostatistics Research Branch (BRB), Division of Clinical Research, NIAID. The mission of the BRB includes collaborating in the design, monitoring, and analysis of clinical studies and laboratory experiments, as well as conducting independent research in statistical methodology. NIAID offers a broad range of opportunities for collaboration, including large cooperative AIDS research groups, vaccine development, immunology, transplantation research, and biodefense. Candidates should have solid theoretical training in statistical methodology and be able to work effectively with medical and statistical colleagues. Excellent communication skills and the ability to conduct research on statistical methodology are required, as is a doctorate in statistics or biostatistics.

Salary is commensurate with research experience and accomplishments: for this GS-13/14 position, the salary range is $89,033 to $136,771. A full civil service package of benefits (including retirement; health, life and long term care insurance; Thrift Savings Plan participation, etc.) is available.

To apply for this vacancy, visit usajobs.opm.gov and search for mathematical statistician, vacancy number NIAID-11-446303 (for the GS-13) or NIAID-11-446540 (for the GS-14).

Applications will be accepted December 6 to 17, 2010. For additional information, contact Mr. Richard Woods, Human Resource Specialist, at 301-402-3903 or Dean Follmann at dean.follmann@nih.gov.

HHS and NIH are equal opportunity employers
Biostatistician Investigator, Position

The Forsyth Institute is seeking a scientist with a Ph.D. or equivalent in biostatistics, epidemiology, or behavioral sciences with a strong statistical background. This position is a full-time tenure-track position at the Forsyth Institute, with a joint appointment via our affiliation with Harvard University. Rank and salary are commensurate with experience and qualifications.

The successful candidate will have a strong record of research contributions, including significant publications in high impact peer-reviewed journals, and leadership as principal investigator and collaborator on successful government, foundation and corporate grant applications. It is expected that the successful candidate will develop his/her own research program, as well as provide statistical support to other members of Forsyth’s research staff.

Experience in the design and analysis of clinical or population-based studies is desirable, as is the ability to organize and direct analyses of large databases derived from high throughput biological assays.

It is expected that the candidate will develop and maintain strong interactions with the Boston and Cambridge academic communities which, in addition to Forsyth, include the Harvard Medical School, the Harvard School of Public Health and the Harvard School of Dental Medicine.

The Forsyth Institute is the world’s leading independent oral and craniofacial biology research organization. Please visit our website at: www.forsyth.org for a full description of staff research interests.

This position is available immediately. Forsyth offers highly competitive compensation and fringe benefits packages. Interested individuals should send a current curriculum vitae, a description of past experience, future interests and the names and contact information for three references to: humanresources@forsyth.org (Re: Biostatistics) Affirmative Action/Equal Opportunity Employer M/F/H/V.

8/16/11. Position requires PhD in statistics or probability, strong research and teaching. Submit résumé, teaching and research evidence, three reference letters to Search Committee, A415 Wells Hall, East Lansing, MI 48824-1027 or sparks@stt.msu.edu. Review begins 12/15/10 and continues until filled. Additional information at www.stt.msu.edu. Michigan State University is an AA/EOE.

Missouri

One position at the assistant professor level in statistics fall 2011. Send letter of application, CV, PhD transcripts, and three letters of reference to Jianguo (Tony) Sun, Chair Search Committee, Statistics Department, University of Missouri, Columbia, MO 65211-6100 or via email: umcstatfacsearch@missouri.edu. For information, visit www.stat.missouri.edu. Review of applications will begin Dec.15, 2010, and continue until position is filled. The University of Missouri is an Affirmative Action/Equal Opportunity/ADA employer.

Tenure-track assistant professor position in the department of mathematics and statistics, Missouri University of Science and Technology, beginning fall 2011. Strong research and teaching potential, applied...
Department of Biostatistics, University of Michigan
Faculty Positions in Bioinformatics and Statistical Genetics

The Department of Biostatistics at the University of Michigan is seeking applicants for two open rank or tenure-track positions, and research faculty position to begin in Fall 2011 or earlier in the areas of Bioinformatics and Statistical Genetics. The Department seeks outstanding individuals with interests in the development of statistical methods, collaborative scientific research, and teaching.

The Department of Biostatistics has 29 faculty members and over 120 full time PhD and Master students. The Department is involved in cutting edge methodological research and scientific investigation in many areas of biomedical and public health research. The Department has close links with the Department of Statistics, the Institute of Social Research, the Medical School, the Center for Computational Medicine and Bioinformatics, the Center for Statistical Genetics, and the Cancer Center. More information on the department and the open positions can be found at http://www.sph.umich.edu/biostat.

The University of Michigan offers competitive salaries and excellent benefits. Ann Arbor is a progressive city of about 100,000, with excellent schools and a wide variety of sporting and musical activities. It is rated very highly in national surveys for its quality of life and has the amenities of a city many times its size.

Consideration of applications will begin immediately and will continue until the positions are filled. Interested applicants should send a CV, three reference letters, a statement of research interests, and academic transcripts (if a recent graduate) to: Chair of Bioinformatics Search Committee, Dept of Biostatistics, School of Public Health II, University of Michigan 1415 Washington Hghts, Ann Arbor, MI 48109-2029, Tel: (734) 936-0989, Email: StatGen-Bioinform-2011@umich.edu.

*The University of Michigan is an affirmative action/equal opportunity employer.*
*Woman and minorities are encouraged to apply.*
University of Illinois at Chicago
Department of Mathematics, Statistics, and Computer Science
Tenure Track Assistant Professor in Statistics

The Department of Mathematics, Statistics, and Computer Science invites applications for a tenure track Assistant Professor position in statistics or probability. The position is effective August 16, 2011 and the salary is negotiable. Applicants must have expertise in statistics, probability, or related areas, a demonstrated commitment to research and teaching, and should expect to have a Ph.D. or equivalent degree by the start date. Final authorization of the position is subject to the availability of state funding.

The Department has active research programs in a broad spectrum of centrally important areas of pure mathematics, computational and applied mathematics, mathematical computer science, probability and statistics, and mathematics education. See http://www.math.uic.edu for more information.

Applicants should include a vita, research and teaching statements, and at least three (3) letters of recommendation. Applications should be submitted through mathjobs.org. No applications will be accepted by surface mail or e-mail. To ensure full consideration, application materials must be received by December 1, 2010, but applications will be accepted through January 15, 2011. However, we will continue considering candidates until the position is filled. Minorities, persons with disabilities, and women are particularly encouraged to apply. UIC is an AA/EOE.

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New York

- New York University Stern School of Business Statistics Group, tenure-track assistant professor appointment in statistics. Candidates should have evidence of boundary-spanning interests across fields that reflect significant interfaces of statistics with areas of relevance in a business school. Expected that candidate will be productive researcher and effective teacher at both undergraduate and graduate levels. See http://w4.stern.nyu.edu/ioms/facultystaff.cfm?doc_id=2526 for full details, including information on application procedure. New York University is an Affirmative Action/Equal Opportunity Institution.

- The mathematics department at Hamilton College invites applications for a tenure-track position in statistics at the assistant professor level. A PhD, together with a
commitment to excellence in undergraduate teaching, are required. Responsibilities include teaching five courses per year at a variety of levels and helping to develop our growing statistics program. Please review the complete job description and apply online at www.mathjobs.org. Hamilton College is an AA/EOE.

Memorial Sloan-Kettering Cancer Center is seeking a doctoral-level biostatistician with an interest in developing and applying statistical methods to important problems in cancer research to join an existing group of 16 faculty. Send CV and contact information for three referees to Colin B. Begg, PhD, Biostatistics Search, MSKCC, 307 East 63rd St., New York, NY 10065. MSKCC is an Equal Opportunity Employer.

North Carolina

Rho, Inc. in Chapel Hill, NC, is seeking senior research scientist/PI to provide oversight and scientific expertise on NIH grants and contracts. Responsibilities include overall management of the study, designing trials, performing planning and exploratory analyses, writing manuscripts or reports, and consulting with investigators. PhD in biostatistics, epidemiology, or related area and 10+ years leading large coordinating efforts, persons with disabilities, and women are particularly encouraged to apply.

North Carolina

MEMORIAL SLOAN-KETTERING CANCER CENTER

Applications are invited for the following position, effective August 16, 2011. The Department has active research programs in a broad spectrum of centrally important areas of pure mathematics, computational and applied mathematics, combinatorics, mathematical computer science and scientific computing, probability and statistics, and mathematics education. See http://www.math.uic.edu for more information.

Applications are invited for the following position, effective August 16, 2011. The Department is seeking to fill two full-time, tenure-track positions with the rank of Assistant Professor starting August 2011. Requirements include a Ph.D. in mathematics, computer science, statistics, or other related fields. Applicants should include a vita, research and teaching statements, and at least three letters of recommendation. Submissions should be sent to: Chair, Statistics Search Committee, Department of Mathematics & Statistics, PO. Box 4008, Mississippi State, MS 39762-9715. Further information about the department can be found at www.msstate.edu/dept/math. Applications must be received by December 31, 2010, but applications will be accepted through January 31, 2011. Minorities, persons with disabilities, and women are particularly encouraged to apply. UIC is an AA/EOE.
Assistant or Associate Professor  
Department of Statistics

The Department of Statistics (www.stat.uci.edu) at the University of California, Irvine (UCI), invites applications for a tenure-track assistant or tenured associate professor position beginning July 1, 2011. The department has a strongly interdisciplinary flavor, focused on developing methods to solve applied problems and advancing the statistical theory that underlies those methods. We are searching for faculty with strong research potential and enthusiasm for helping our department continue to grow. Applicants must hold a Ph.D. degree in Statistics, Biostatistics or a related field. The Department is interested in individuals with research interests in all areas of statistics.

UCI is one of the youngest campuses in the University of California, yet we are already ranked very highly among U.S. public universities. The Department of Statistics is part of the Donald Bren School of Information and Computer Sciences at UCI.

Completed applications containing a cover letter, curriculum vita, graduate transcripts (for assistant professor candidates), sample research publications, and three letters of recommendation (names of references are acceptable for associate professor candidates) should be uploaded electronically. Please refer to the following web site for instructions https://recruit.ap.uci.edu/

The review of applications will begin December 15, 2010.

The University of California, Irvine is an equal opportunity employer committed to excellence through diversity, has a National Science Foundation Advance Gender Equity Program, and is responsive to the needs of dual career couples.

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The Statistical and Applied Mathematical Sciences Institute (SAMSI) is soliciting applications for postdoctoral fellows in statistics and mathematics beginning September 2011 for the Uncertainty Quantification Program. Appointments, at extremely competitive salaries, will typically be for two years. Members of under-represented groups are particularly encouraged to apply. Please use mathjobs.org to apply. The deadline for full consideration is January 2011. View job description at: www.samsi.info/programs/2011-12-program-uncertainty-quantification. SAMSI is an AA/EOE.

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The department of mathematics and statistics at The University of North Carolina at Greensboro invites applications and nominations for the position of department head. The appointment will be at the rank of professor with tenure and will be effective August 1, 2011. For entire ad, please see the following website: www.uncg.edu/matjobs.html. The University of North Carolina is an AA/EOE.

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VCU Medical Center

Virginia Commonwealth University

Department of Biostatistics
Assistant/Associate/Full Professor
Position #F3243

The Department of Biostatistics at Virginia Commonwealth University (VCU) is seeking to fill one or more tenure-eligible faculty positions at the level of assistant, associate, or full professor. Focus in any methodological area is welcome, including but not limited to: genomic biostatistics, spatial data analysis, mixed effects models, survey sampling methodology and Bayesian methodology. The candidate will be expected to maintain collaborative and/or methodological extramural grant support, teach and advise graduate students, and provide departmental and university service.

The VCU Department of Biostatistics consists of 18 full-time faculty and offers both M.S. and Ph.D. programs in biostatistics, including a concentration in Genomic Biostatistics and a M.S. in Clinical Research and Biostatistics Concentration. In addition to other computational resources at VCU, our department supports its own high-performance computing cluster.

Qualifications include: Ph.D. in biostatistics, statistics or a related field. Applicants should have at least two years of experience beyond completion of their degree program and must demonstrate excellent oral and written communication skills. Potential candidates can submit applications, including a statement of research, teaching philosophy, curriculum vitae and contact information for three professional references, via mail – to Yvonne Hargrove, Department of Biostatistics, Virginia Commonwealth University, P.O. Box 980032, Richmond, VA 23298-0032 – or by e-mail to yhargro@vcu.edu.

Virginia Commonwealth University is an equal opportunity/affirmative action employer. Women, minorities and persons with disabilities are encouraged to apply.

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FACULTY POSITION
Assistant Or Associate Member

The Department of Biostatistics at St. Jude Children’s Research Hospital (www.stjude.org/biostatistics) invites applications for a faculty position at the Assistant or Associate Member (Professor) level depending upon qualifications. Candidates must have a doctorate in biostatistics or statistics and a record of peer-reviewed publications showing evidence of (for Assistant Member, a potential of) productive methodological research. Preference will be given to candidates with statistical research interests in Systems Biology, Statistical Genomics or Bioinformatics and a commitment to collaborative research with clinical and laboratory investigators. Continued independent statistical research motivated by biomedical collaborations is expected of the successful applicant. The Department staff includes twelve faculty positions, two postdoctoral fellows, sixteen master’s level biostatisticians, six computer scientists and support staff. Applicants must demonstrate excellent oral and written communications skills and be proficient in computing.

Compensation is very competitive and commensurate with experience. Send letter of interest, CV, and three reference letters sent to: James Boyett@stjude.org or Dr. James M. Boyett, Endowed Chair, Dept. of Biostatistics, St. Jude Children’s Research Hospital, 262 Danny Thomas Place, Memphis, TN 38105-3678.

St. Jude is an Equal Opportunity Employer and a Drug-Free Workplace. EE/AAE.
Opportunities

Research Fellows are visitors at SAMSI for periods of up to one year.

New Researcher fellowships provide support of up to $20,000 in salary for semester-long to year-long visiting outstanding researchers who have received Ph.D.’s within the previous 8 years.

Postdoctoral fellowships usually are for two years made jointly between SAMSI and one of its partners. Up to six positions will be available. Please see mathjobs.org for details.

Graduate student positions are available for those whose mentors are attending the program.

Mathematical models intended for computational simulation of complex, real-world processes are a crucial ingredient in virtually every field of science, engineering, medicine and business. Utilization of computer models requires addressing Uncertainty Quantification (UQ) on at least the following issues: uncertainties in the initial conditions, unknown parameters, stochastic features, combinations of model output and noisy data (data assimilation), scarcity of model output and inaccuracies in the models. SAMSI’s UQ program will pursue theoretical advances and applications to engineering, energy, climate and geosciences.

The program will be led by experts from across the country: Amy Braverman (JPL, Caltech and UCLA), Don Estep (Colorado State), Roger Ghanem (USC), David Higdon (LANL), Christine Shoemaker (Cornell), Max Gunzburger (Florida State) and Jeff Wu (Georgia Tech), with the help of local scientific coordinators James Nolen (Duke) and Jan Hannig (UNC).

SAMSI programs are much more than a collection of workshops. Activities at SAMSI are organized around working groups, which are active throughout the program, i.e., early fall 2011 through late spring 2012 and beyond. This working group structure, unique to SAMSI, has proved extremely successful in producing research and stimulating new collaborations. This and our close proximity to three of the nation’s best research universities makes SAMSI an exciting place to visit.

The program will officially start in late Summer 2011 with four opening workshops

- Climate Change Workshop
  August 28-September 1, 2011

- Methodology of Uncertainty Quantification
  September 7-10, 2011

- Engineering and Renewable Energy Workshop
  September 19-21, 2011

- Geosciences Applications Workshop
  September 21-23, 2011

Other Workshops to Come
The University of Chicago Booth School of Business is seeking to appoint outstanding scholars to tenure-track positions in Econometrics and Statistics.

Applicants must have a PhD in biostatistics or statistics. We are particularly interested in applicants who have interests, training, and/or experience in Clinical Trials – especially early-phase clinical trials – and collaborative research. Experience and/or training in statistical bioinformatics and database design and data conversion and extraction are also desired, but strong applicants in other areas such as statistical genetics, Bayesian or epidemiologic methods, survival analysis, and analysis of longitudinal data or quality-of-life data are welcomed and encouraged to apply. These positions will also provide opportunities for teaching and advising graduate students, trainees, residents, and others both within the Division of Cardiology and the Division of Biostatistics.

The primary appointment(s) would be within the Division of Cardiology’s Lillehei Clinical Research Unit, with a joint appointment within the Division of Biostatistics. The Division of Cardiology currently includes 31 faculty members. The Lillehei Heart Institute currently includes 10 basic science faculty members. The Division of Biostatistics currently includes 22 graduate faculty and 65 staff, and offers MS, MPH, and PhD degrees. Current faculty research in statistical methodology includes analysis of spatial and longitudinal data, Bayes and empirical Bayes methods, computer-intensive methods such as Markov chain Monte Carlo, survival analysis, clinical trials design, statistical genetics/genomics, generalized linear models, latent variable models, and categorical data analysis. The Division has an international reputation as the home of the statistical coordinating centers for a number of major clinical trials. Research in the Lillehei Heart Institute and Division of Cardiology encompasses basic science, clinical science, and population science.

Applications received before November 1, 2010, will be considered for a first round of interviews but the positions will remain open until filled. The salary range for these faculty positions will be very competitive and the University of Minnesota offers excellent fringe benefits. These are non-tenure-track contract positions, with the initial period of the contracts set at two years.

Applicants should submit a cover letter, current curriculum vitae, and the names of at least three references online at:

<http://employment.umn.edu/applicants/Central?quickFind=88930>. For questions contact John E. Connett, Professor of Biostatistics and the Search Committee Chair (john-c@umn.edu).

For additional information regarding the Division of Biostatistics, the School of Public Health, and the University, please visit our website at: http://www.sph.umn.edu/biostatistics/.

The University of Minnesota is an equal opportunity educator and employer.
Ph.D. Statisticians

The Statistical Sciences Group at Los Alamos National Laboratory seeks excellent candidates for challenging positions in Statistics. Candidates must have or be near completion of a Ph.D. in Statistics or have an equivalent combination of education and experience; knowledge of multiple areas of statistical sciences; strong statistical computing skills; and interest in diverse application areas. Successful candidates have experience developing statistical methodology in multidisciplinary collaborations and proven statistical research ability as evidenced by journal publications, technical reports, and/or conference presentations. The group values good verbal and written communication skills for collaboration with scientists in other disciplines. Top-level security clearance or ability to obtain a top-level security clearance, which normally requires U.S. citizenship, is mandatory.

The Laboratory maintains an atmosphere of intellectual freedom and offers a competitive salary and strong benefits for retirement, vacation, and health coverage.

We anticipate multiple hires at entry level and above. Submit cover letter, resume, three letters of reference, and copies of transcripts. Electronic submission in PDF format to statsearch@lanl.gov (preferred) or mail to: Statistical Sciences Search Committee, Los Alamos National Laboratory, P.O. Box 1663, MS F600, Los Alamos, NM 87545. Applicants must also apply online. Go to http://www.stat.lanl.gov for complete application instructions and the most current information on our Statistics opportunities. We will begin reviewing applications upon receipt. Submission of applications prior to December 15, 2010 is encouraged.

Pushing the Frontiers of Science

For more than six decades, Los Alamos National Laboratory has challenged the frontiers of science by creatively combining basic sciences with engineering and technical advances. As one of the country’s largest national laboratories, the Laboratory is recognized as a world-class scientific and engineering institution. Operated for the Department of Energy, the Laboratory serves the nation by advancing science and technology to make the world a better and safer place.

The Statistical Sciences Group was formed in 1967 to provide the Laboratory with a center of expertise in statistics. The group consists of 22 statistical scientists plus supporting personnel, visiting faculty, graduate students, and postdoctoral fellows. The group currently has expertise in a range of methodologies including Bayesian methods, biomathematics, computer model evaluation, design and analysis of experiments, environmental statistics, Monte Carlo and computer-intensive methods, reliability analysis, spatial modeling, statistical graphics and visualization, and stochastic processes.

Statisticians work in partnership with world-class scientists to develop and apply basic science and technology in areas such as computational science, materials science, physics, energy, geology, climate, astronomy, biology, and chemistry. In addition to questions of national security and nuclear safety and reliability, applications come from other government agencies and industrial partners. Supercomputing and simulation play a large and growing role in many of these disciplines and applications. The group’s work involves development and application of statistical methodology to the scientific questions in these fields, often with a strong focus on computation. The group encourages members to publish and present their work to the wider statistical community.

Los Alamos Area

Los Alamos sits at 7300 feet on the colorful mesas that extend from the slopes of the Jemez Mountains. The town of about 18,000 people overlooks the Rio Grande Valley with further views of the Sangre de Cristo range, which forms the southern end of the Rocky Mountains. Los Alamos is a scenic 40-minute drive from the historic and cultural center of Santa Fe. The Los Alamos area boasts unparalleled access to outdoor activities such as skiing, fishing, mountain biking, and hiking.
TENURE TRACK ASSISTANT PROFESSOR POSITION AVAILABLE
DEPARTMENT OF MATHEMATICS AND STATISTICS, UMBC

The Department of Mathematics and Statistics at the University of Maryland, Baltimore County (UMBC) invites applications for a tenure-track faculty position in Statistical Sciences that will start in Fall 2011 at the rank of Assistant Professor. Candidates with post-doctoral or appropriate work experience are particularly encouraged to apply. Outstanding candidates may be considered for appointment at a higher rank. The successful candidate should have a PhD in Biostatistics or a related field and have an active, independent research program, a strong potential to obtain external funding, and a commitment to excellence in teaching. Preference will be given to candidates who are able to conduct interdisciplinary research with applications to the life sciences, as well as those who are able to interact with existing faculty in the department.

Current research areas represented in the department include stochastic processes, numerical analysis, differential equations, optimization, mathematical modeling and statistics with applications in biological and environmental sciences and engineering. Department faculty members have active research and programmatic collaborations with several research centers in the campus including JCET (www.umbc.edu/jcet) CUERE (www.umbc.edu/cuere/), CASPR (www.umbc.edu/caspr/), and the School of Aging Studies (www.umbc.edu/erickson/). The department has external grants from a number of agencies including NIH, EPA, NSA, and NSF, as well as a consulting center (www.umbc.edu/circ/) which offers services to both on and off campus researchers. UMBC is in the process of developing a core facility for high-performance computing and the department possesses excellent computing facilities including an 86-node distributed-memory cluster with low-latency interconnect (www.umbc.edu/hpcf).

The department has a thriving graduate program and offers BS, MS, and PhD degrees in both applied mathematics and statistics. The Biostatistics Track, offered jointly with the School of Medicine, University of Maryland, Baltimore, is available both at the MS and PhD levels (www.umbc.edu/biostat). For more information about the department, visit our website at www.math.umbc.edu.

Applicants should send their current curriculum vitae, a summary of their current research program, and teaching statements; and also arrange to have three letters of reference sent to mathstat_info@lists.umbc.edu with Subject: Stat Search (last name, first name of the candidate). PDF files are preferred. If submission by email is impossible, materials may be sent to Statistics Search Committee, Department of Mathematics and Statistics, UMBC, 1000 Hilltop Circle, Baltimore, MD 21250.

The screening of applicants will commence November 1, 2010 and will continue until the position is filled. Minorities, women, and people with disabilities are especially encouraged to apply. UMBC is an Affirmative Action/Equal Opportunity Employer.

Duke University
DEPARTMENT OF STATISTICAL SCIENCE

The Department of Statistical Science invites applications for faculty appointment at the level of Assistant Professor to begin in Fall 2011. Preference will be given to candidates whose core statistical science research interests are complemented with collaborative research interest in systems biology, neurosciences, social sciences, or environmental science.

The Department of Statistical Science is an internationally recognized center of excellence for research and education in the development and application of contemporary statistical methodology. Particular emphasis is directed toward Bayesian modeling in many scientific fields as well as emerging computationally intensive methods. The Department offers outstanding computational facilities and opportunities for interdisciplinary research. It currently has 14 regular rank faculty along with 14 visiting, adjunct, and post doctoral faculty and 35 Ph.D. students.

The Ph.D. program as well as the Department’s research agenda benefit from strong connections with the Statistics and Applied Mathematical Sciences Institute (SAMSI) and the National Institute of Statistical Science (NISS), both located nearby in the Research Triangle. A Statistical Science major, started in Fall 2007, provides the primary focus of our undergraduate program. More information about the Department is available at the web site http://www.stat.duke.edu.

All applicants should provide a letter, curriculum vitae, personal statement, and the names of three references. All materials should be submitted online at Academic Jobs Online (https://academicjobsonline.org/ajo). For inquiries and e-mail correspondence please write to search@stat.duke.edu. The application pool will remain open until the position is filled but screening will begin on 1 December 2010.

Duke University prohibits discrimination and harassment, and provides equal employment opportunity without regard to race, color, religion, national origin, disability, veteran status, sexual orientation, gender identity, sex or age. Duke is committed to recruiting, hiring, and promoting qualified minorities, women, individuals with disabilities, and veterans.
The Division of Biostatistics in the Department of Epidemiology and Public Health is a newly created Division at the University of Miami, Miller School of Medicine (http://biomed.miami.edu/?p=157). The Division will go through a large and progressive expansion over the next years as the University of Miami seeks to develop a strong presence in Biostatistics. We seek individuals with a strong foundation in biostatistics or statistics with an interest in developing new methodology in cutting edge areas of medical research. Current areas of strength in the Division include research on statistical genomics and other high dimensional modeling, Bayesian modeling, model selection, mixed models, predictive modeling and the design and analysis of prevention trials.

FULL PROFESSOR, DIVISION OF BIOSTATISTICS (TENURED)

For the Full Professor position, we seek an individual with a nationally recognized program of research in Biostatistics/statistics or a related quantitative discipline at the level commensurate with Full Professor. Ideally, this person will be able to take a leadership role in developing and integrating statistical methodology connected to specific areas of medical research that are of interest to the candidate. Opportunities for research collaborations outside of the School of Medicine also exist. In addition, this individual should have an outstanding record of teaching and mentoring, as well as service to the profession.

ASSOCIATE PROFESSOR, DIVISION OF BIOSTATISTICS (TENURE ELIGIBLE)

For the Associate Professor position, we are looking for an individual who has clearly made the transition from Assistant Professor as demonstrated by a strong record of publications (both statistical and collaborative), teaching and mentoring, and who sees this position as an opportunity to take their research program to the next level. This can be most easily done by developing and integrating statistical methodology via deep and sustained collaborations with investigators in one or more of the areas of medicine. Opportunities also exist for research collaborations outside the School of Medicine.

Both positions will have competitive salaries commensurate with experience as well as comprehensive benefits through the University of Miami. In addition, successful candidates can expect generous start-up packages that will allow the further strengthening of already solid research programs.

Qualifications for both positions include a Doctoral degree in biostatistics/statistics or a related quantitative science is required. Proven record of graduate level teaching and mentoring is expected. Excellent oral and written communication skills are also required. Since these are senior level positions, there is an expectation of demonstrating a record of grant funded research.

Applicants are asked to submit their CV, and 3 papers (PDF files) which they feel best illustrates their research. In addition, applicants are asked to submit a one page statement describing their past and current research program as well as their plans to continue to deepen these programs of research. All materials should be sent by EMAIL to:

Michele Gomez
Senior Administrative Assistant to Dr. J. Sunil Rao
Department of Epidemiology and Public Health
Division of Biostatistics
1120 N.W. 14th Street, Suite 1064 (R-669)
Miami, Florida 33136
Email: mgomez6@med.miami.edu

The names of 3 references with contact information will be required from applicants who are invited for an interview.

The closing date for receipt of applications is January 31, 2011.
Possibilities and Probabilities

If working in an environment that values individuality and diversity and allows you to innovate, engage in problem solving, and achieve your professional goals appeals to you, then the Census Bureau is the place for you.

Your work as a Mathematical Statistician at the Census Bureau

- Design sample surveys and analyze the data collected.
- Design and analyze experiments to improve survey questionnaires and interview procedures.
- Improve statistical methods for modeling and adjustment of seasonal time series.
- Perform research on statistical methodology that will improve the quality and value of the data collected.
- Publish research papers and technical documentation of your work

Requirements

- U.S. citizenship
- Bachelor’s, Master’s or Ph.D with at least 24 semester hours in math and statistics (see website for more specifics on required coursework)

Apply at www.census.gov, click on Jobs@census, Headquarters and NPC Employment Opportunities, Mathematical Statistician

The U.S. Census Bureau is an Equal Opportunity Employer.

GEORGE MASON UNIVERSITY
Department of Statistics

Tenure-Track Assistant Professor of Statistics

The Department of Statistics (http://statistics.gmu.edu), at George Mason University, Fairfax, Virginia, is seeking candidates for tenure-track position as Assistant or Associate Professor of Statistics. The candidate should have a Ph.D. in Statistics or Biostatistics, and be prepared to conduct independent and collaborative research that has publication and external funding potential. Research areas of the Department include biometric identification, biostatistics, computational statistics, data exploration, statistical genetics, and visualization. The Department offers M.S. and Ph.D. degrees in Statistical Science, and is located in the Volgenau School of Information Technology and Engineering, which occupies a new building on our rapidly growing campus in the high-tech corridor of Northern Virginia. We are 30 minutes from Washington, DC, by car or subway. Fairfax is consistently ranked as one of the best places to live and work in the nation.

Interested applicants should apply at http://jobs.gmu.edu, position number F94152.

EOE Statement: George Mason University is an equal opportunity/affirmative action employer. Women and minority candidates are particularly encouraged to apply.

West Chester University, Department of Mathematics. Tenure-track, assistant/associate professorship of statistics. Candidates must possess a PhD in statistics, bio-statistics, bioinformatics, or a closely related field by August 2011; have excellent communication and teaching skills; and be engaged in a viable program of ongoing research. Preference will be given to candidates who can lead the development of courses in bioinformatics. Details at www.wcupa.edu/statposition. West Chester University is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply. All offers of employment are subject to and contingent upon satisfactory completion of all pre-employment background and consumer reporting checks.

Texas

The department of statistical science at Baylor University is seeking applicants for an assistant/associate professor position, beginning August 2011. Candidates must hold PhD in statistics or biostatistics and be committed to excellence in research, teaching, and service. Applicants should submit a letter of intent, vitae, transcripts, and three

Texas

The department of statistical science at Baylor University is seeking applicants for an assistant/associate professor position, beginning August 2011. Candidates must hold PhD in statistics or biostatistics and be committed to excellence in research, teaching, and service. Applicants should submit a letter of intent, vitae, transcripts, and three
Tenure Track or Tenure-Eligible Investigator, Biostatistics and Bioinformatics Branch

The Division of Epidemiology, Statistics and Prevention Research (DESPR) of the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH), invites applications for the position of Tenure Track or Tenure-Eligible Investigator in the Biostatistics & Bioinformatics Branch (BBB). BBB investigators develop statistical research programs and actively collaborate in cutting-edge studies of genetics, lifestyle, and other environmental causes of reproductive, perinatal and adolescent outcomes. Statistical research is typically motivated by analytic issues encountered in Division studies, including modeling complex longitudinal data, modeling recurrent events, developing new approaches for assessing risk, developing strategies to identify true associations in genome-wide scans for disease-producing genetic variants, and the analysis of nutritional data. Increasingly, analytic issues involving digital imaging and “omics” data are becoming important in Division projects. For example, many Division projects have research components focusing on examining biological function as measured by proteomics, metabolomics, along with other high dimensional biomarkers. These measurements are often longitudinal, raising exciting research opportunities in study design and analysis.

Given the Branch’s current mix of expertise, we are particularly interested in candidates with established experience in bioinformatics, the analysis of high-dimensional data, and statistical genetics methodology. Applications will be evaluated on demonstrated potential to develop a creative, independent program of statistical research. Available resources include state of the art computing facilities (e.g., the NIH Biowulf cluster super computer), programming support for statistical methodology and collaborative projects from on-site computer and statistical contractors, and access to a diverse array of databases that have longitudinal and high-dimensional data for statistical methods development.

Candidates must have an earned doctorate in biostatistics, statistics or a closely related field from an accredited university, an outstanding methods research and collaborative research publication record in the peer-reviewed literature, evidence of success in mentoring junior scientists, and evidence of professional service. Those applying for a tenure-eligible position should have an international reputation. The successful candidate should have strong communication skills to discuss scientific issues and write scientific papers.

Full Federal benefits including salary, leave, health and life insurance, long-term care insurance, retirement, and savings plan (401k equivalent) will be provided.

Questions about the position can be addressed by Dr. Paul Albert, Senior Investigator and Chief of BBB at 301-496-5582. Interested individuals should email a cover letter describing research interests and professional accomplishments, curriculum vitae, and the names and contact information for three references to:

Adrienne Lonberger
Program Analyst, DESPR, NICHD
6100 Executive Blvd, Room 7B05, Rockville, MD 20852
alonberger@mail.nih.gov

Applications received by December 15, 2010 will be considered for a first round of interviews, but applications will be accepted until the position is filled.

The DHHS and NIH are Equal Opportunity Employers.
letters of reference to statistics-search-10@baylor.edu. Completed applications ensure full consideration if received by November 30, 2010. AA/EOE.

The department of mathematics and statistics at Texas Tech University seeks applicants for an open-rank position in probability and/or statistics. For more information and application instructions, please see our full advertisement at www.math.ttu.edu/hiring/2011_hiring.shtml. Texas Tech University is an AA/EOE.

Utah
The department of mathematics at the University of Utah invites applications for the following positions: full-time tenure-track or tenured appointments at level of assistant, associate, or full professor in all areas of mathematics and statistics. Three-year Scott, Wylie, and Burgess assistant professorships. See our website at www.math.utah.edu/positions for information regarding available positions, application requirements, and deadlines. Applications must be completed through the website www.mathjobs.org. The University of Utah is an Equal Opportunity, Affirmative Action Employer.

Williams College
Assistant Professor
The Williams College Department of Mathematics and Statistics invites applications for one tenure-track position in statistics, beginning fall 2011, at the rank of assistant professor (in an exceptional case, a more advanced appointment may be considered). We are seeking a highly qualified candidate who has demonstrated excellence in teaching and research, and who will have a Ph.D. by the time of appointment. This candidate will become the fourth tenure-track statistician in the department, joining a vibrant and active statistics group.

Williams College is a private, residential, highly selective liberal arts college with an undergraduate enrollment of approximately 2,000 students. The teaching load is two courses per 12-week semester and a winter term course every other January. In addition to excellence in teaching, an active and successful research program is expected.

To apply, please send a vita and have three letters of recommendation sent to: The Hiring Committee, Department of Mathematics and Statistics, Williams College, 18 Hoxsey Street, Williamstown, MA 01267. Teaching and research statements are also welcome. Evaluations of applications will begin on or after November 15 and will continue until the position is filled. For more information on the Department of Mathematics and Statistics, visit http://math.williams.edu/. Beyond meeting fully its legal obligations for non-discrimination, Williams College is committed to building a diverse and inclusive community where members from all backgrounds can live, learn, and thrive.
Non-Tenure Teaching Assistant Professor

The Department of Statistics at North Carolina State University invites applications for a non-tenure track position at the Assistant Professor level. Applicants must have completed all requirements for a Ph.D. in Statistics or Biostatistics by the time of employment. The initial appointment is expected to be for five years. Based on performance, the position is eligible for subsequent appointments and promotions in rank are possible.

For more information and to apply, please visit http://jobs.ncsu.edu and designate position number 61374.

Tenure-Track Assistant/Associate/Full Professor

The Department of Statistics at North Carolina State University invites applications for a tenure track (Assistant/Associate/Full Professor) position. Applicants must have a Ph.D. in Statistics or Biostatistics. Candidates for Associate or Full Professor must have an established record of funded research, collaboration, and exemplary teaching. Responsibilities include teaching, research, and doctoral student research supervision. The department seeks applications from (and nominations of) candidates from ALL areas of statistics.

For more information and to apply, please visit https://jobs.ncsu.edu and designate position number 101880.

Individuals with disabilities desiring accommodations in the application process should contact Felicia Harris, voice: (919) 515-1944; email: felicia_harris@ncsu.edu; fax: (919) 515-7591. Processing of applications will begin December 5, 2010 and continue until the positions are filled.

For more information about the department, visit http://www.stat.ncsu.edu. Please do not hesitate to contact Peter Bloomfield, Interim Head, (919) 515-1913, bloomfld@stat.ncsu.edu to discuss your potential interest in the position.

NCSU is an equal opportunity and affirmative action employer. Women and members of other underrepresented groups are encouraged to apply. In addition, NC State University welcomes all persons without regard to sexual orientation. We welcome the opportunity to work with candidates to identify suitable employment opportunities for spouses or partners.
Virginia

Assistant professor: Department of Statistics (www.stat.vt.edu), Virginia Tech. Emphasis on visualization/pattern recognition and computational statistics. Starting date is August 2011. Doctorate in statistics, biostatistics, or closely related field required. Submit applications online at listings.jobs.vt.edu/applicants/Central?quickFind=192236. Cover letter, curriculum vitae, research plan, and statement of teaching philosophy are needed. Submit three letters of recommendation to Bill Woodall, Virginia Tech, Blacksburg, VA 24061-0439, (540) 231-7792, bwoodall@vt.edu. Virginia Tech is an EO/AA university. Individuals with disabilities desiring accommodations in the application process should notify Betty Higginbotham (higgvt@vt.edu), Statistics Department, (540) 231-5657, or call TTY (800) 828-1120.

Wisconsin

University of Wisconsin Oshkosh invites applications for tenure-track assistant professor position starting Sept. 1, 2011. PhD in statistics or mathematics with thesis topic in statistics, at least two years of undergraduate teaching experience (may include

The Department of Biostatistics and the Lineberger Comprehensive Cancer Center (LCCC) at the University of North Carolina at Chapel Hill are seeking a non-tenure track Research Assistant or Research Associate Professor to collaborate with cancer researchers on cancer genomics, clinical trials, population science research, and other cancer-related research as well as engage in independent methodological research. The LCCC is one of 27 NCI-designated comprehensive cancer centers. Applicants should hold a PhD in biostatistics or statistics, and possess good communication skills.

To apply, use the electronic submission website at http://jobs.unc.edu/2500224 and upload PDF versions of your CV, cover letter, and research and teaching statements. Candidates must also arrange for three letters of recommendation to arrive via email at bseagrov@bios.unc.edu and subsequently in hard copy to:

Betsy Seagroves
Department of Biostatistics
CB #7420, McGavran-Greenberg Hall
The University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-7420

These positions will remain open until filled.

The Gillings School of Global Public Health is actively committed to diversity. We strongly encourage applications from women, minorities and individuals with disabilities. The University of North Carolina at Chapel Hill is an Equal Opportunity Employer.

Duke University

DEPARTMENT OF STATISTICAL SCIENCE

The Department of Statistical Science invites applications for faculty appointment at the level of Assistant Professor of the Practice to begin in Fall 2011. The professor of the practice rank at Duke is parallel to the tenure track, emphasizing teaching and pedagogy. It is term renewable, and affords the possibility for promotion to associate and full professor of the practice. Preference will be given to candidates demonstrating outstanding teaching and strong interests in developing a new and growing undergraduate major. Complementary interests in Bayesian statistical science research and collaboration will also be considered.

The Department of Statistical Science is an internationally recognized center of excellence for research and education in the development and application of contemporary statistical methodology. Particular emphasis is directed toward Bayesian modeling in many scientific fields as well as emerging computationally intensive methods. The Department offers outstanding computational facilities and opportunities for interdisciplinary research. It currently has 14 regular rank faculty along with 14 visiting, adjunct, and post doctoral faculty and 35 Ph.D. students.

The educational program (graduate and undergraduate) as well as the Department’s research agenda benefit from strong connections with the Statistical and Applied Mathematical Sciences Institute (SAMSI) and the National Institute of Statistical Sciences (NISS), both located nearby in the Research Triangle. More information about the Department is available at the web site http://www.stat.duke.edu.

All applicants should provide a letter, curriculum vitae, personal statement, and three reference letters. All materials should be submitted online at Academic Jobs Online (https://academicjobsonline.org/ajo). For inquiries and e-mail correspondence please write to dalene@stat.duke.edu. The application pool will remain open until the position is filled but screening will begin on 1 December 2010.

Duke University prohibits discrimination and harassment, and provides equal employment opportunity without regard to race, color, religion, national origin, disability, veteran status, sexual orientation, gender identity, sex or age. Duke is committed to recruiting, hiring, and promoting qualified minorities, women, individuals with disabilities, and veterans.
ASSISTANT/ASSOCIATE/FULL PROFESSOR OF BIOSTATISTICS

The Division of Biostatistics, School of Public Health, at the University of Minnesota is announcing two openings for tenured or tenure-track faculty positions at the Assistant, Associate, or Full Professor rank.

We are especially interested in individuals with academic and research records in (1) Bayesian methods and applications, especially for data with complex (e.g., spatiotemporal) correlation structures, and (2) structural equation modeling (SEM) and other methods useful for accounting for latent factors in observational data. We will however consider applications from candidates in other important related research areas, as well as those with PhDs in areas besides biostatistics. The Division has significant strengths in the broad areas targeted by this search, with several faculty members having active research agendas and both methodological and applied funding in areas such as spatial epidemiology, environmental health, cancer control, adaptive clinical trials, and bioinformatics. These grants complement our larger, more collaborative research projects with investigators in the University’s Academic Health Center. At the present time, the Division has statistical and data coordinating centers for NIH-funded clinical trials networks in HIV/AIDS, and in lung and cardiovascular disease.

Applications received before December 15, 2010, will be considered for a first round of interviews. However we will continue to accept applications until the positions are filled.

The Division of Biostatistics (www.sph.umn.edu/biostatistics) currently includes 35 graduate faculty and 65 staff. The Division offers MS, MPH, and PhD degrees, and interacts in teaching, advising and research with the University of Minnesota School of Statistics. Current research in statistical methodology includes survival analysis, longitudinal models, generalized linear models, statistical aspects of genetics, genomics and proteomics, analysis of spatial and longitudinal data, Bayes and empirical Bayes methods, causal modeling, computer-intensive methods such as Markov chain Monte Carlo, and statistical data mining.

Besides HIV/AIDS, lung and cardiovascular disease collaborations, the Division collaborates actively on research in cancer prevention and treatment, dentistry and periodontology, environmental and occupational health, health policy, chronic disease care and smoking prevention. Multi-year grants and contracts for various Divisional projects total over $150 M.

A successful candidate will also be responsible for teaching and advising students at the graduate level. At the present time, the Division has 54 graduate students (30 MS and 24 PhD). The salary range for these faculty positions will be very competitive, and the University of Minnesota offers excellent fringe benefits.

Applicants should submit a cover letter, current curriculum vitae, and the names of at least three references online at <https://employment.umn.edu/applicants/Central?quickFind=90555 >. Please reference requisition #168725. In addition, three letters of recommendation should be sent to: Biostatistics Search Committee, Division of Biostatistics, A460 Mayo Building, MMC 303, 420 Delaware Street SE, Minneapolis, MN 55455. For questions contact Sally Olander (brown198@umn.edu).

The University of Minnesota is an equal opportunity educator and employer.
DEPARTMENT OF BIOSTATISTICS

The Department of Biostatistics at the Johns Hopkins Bloomberg School of Public Health seeks qualified applicants to join our tenure-track faculty. Rank of appointment will be commensurate with experience and new PhDs and recent postdoctoral fellows are encouraged to apply. Candidates should have a PhD or equivalent in statistics, biostatistics, or a comparable field; or in computer science. Department faculty members are committed to education and engage in cutting edge research to advance statistical and quantitative reasoning, methods and discovery in the health sciences.

The Hopkins Department of Biostatistics, founded in 1918, was the first degree-granting department of statistical science in the US and has ranked among the best throughout its history. The Johns Hopkins Health Institutions (Schools of Public Health, Medicine, and Nursing, and the Johns Hopkins Hospital) are among the top worldwide and provide a research environment in which energetic faculty can promulgate scientific excellence. Today, the Department comprises 18 tenure track faculty members, 13 research track faculty members, 32 PhD students, and 17 full-time master degree students.

TO APPLY
Email cover letter, CV, contact information for three references, a statement of research interests and goals, and two papers representing the applicant’s most important work to: Faculty Search Committee at biostat@jhsph.edu. eoe/aa

Women and under-represented minority candidates are particularly encouraged to apply. The Johns Hopkins University is an affirmative action/equal opportunity employer.

UNIVERSITY OF MIAMI
FACULTY POSITION IN APPLIED STATISTICS

The Department of Management Science invites applications for the tenure track position of Assistant Professor starting August 15, 2011. Applicants should possess a doctoral degree in statistics or related field and show promise of excellence in teaching and research. Applicants with a research focus in applied statistics, applied probability, or stochastic models are particularly encouraged to apply.

The Department of Management Science supports the operations research and applied statistics courses within the graduate and undergraduate programs of the School of Business. The School has superior physical facilities that include state-of-the-art computing and library resources and offers extremely competitive salaries. Additional information may be found at www.miami.edu/jobs.

To apply, send a detailed vita, three letters of reference, a statement of research and teaching interests, and copies of transcripts of graduate work to Chair of Search Committee, Department of Management Science, P.O. Box 248237, Coral Gables, FL 33124-6544. Review of applications will start immediately and will continue until the position is filled.

An equal opportunity/affirmative action employer.

TA experience), strong commitment to teaching, advising majors, and potential to continue scholarly development required. Application deadline Jan. 14, 2011. For more information, visit www.uwosh.edu/mathematics. Employment requires criminal background check. AA/EOE.

Wyoming

Tenure-track assistant professor, statistics, beginning August 2011. Requirements include PhD in statistics or related field and excellence in both research and teaching at all levels. Seeking candidate with expertise in computational statistics. Valuable complementary interests include Bayesian statistics and interdisciplinary research, particularly earth science or ecology. Collaborative opportunities exist both on campus and with NCAR. Full description and application instructions are at www.ezfacultysearch.com/uwyo/stats/5. The University of Wyoming is committed to diversity and endorses principles of affirmative action. We seek and welcome applications from individuals of all backgrounds, experiences, and perspectives.
Faculty Search in Biostatistics

The Baylor College of Medicine and Dan L. Duncan Cancer Center (DLDCC) seek highly qualified candidates in Biostatistics to join the Division of Biostatistics and the Biostatistics and Informatics Shared Resource. Interest in translational research, clinical trials and bioinformatics are especially desirable.

Baylor College of Medicine is one of the world's leading medical institutions, ranking 13th among US medical schools in total NIH function ($241 million) this past year and also topped the nation's list for funding in the biological sciences. The DLDCC received its NCI designation in 2007, and recently completed its first successful competitive renewal. There is $125 million in cancer related research currently being conducted by DLDCC members and over 3,000 new cancer patients are seen per year by our hospital affiliates. There is great demand for statistical support for a wide array of cancer-related research across the basic, translational and clinical trials continuum.

We are seeking individuals who are interested in full-time tenure and non-tenure track faculty positions. With Cancer Center leadership, the College is also developing plans for a new Department of combined quantitative sciences that will include a broad range of PhD biostatisticians, bioinformaticians, epidemiologists and staff. The successful candidates will be employed by the Dan L. Duncan Cancer Center with an academic appointment in an appropriate academic department.

Applicants with interests and experience in collaborative research, as well as personal research interests in statistical methodology, and bioinformatics are encouraged to apply. Both a senior and junior position is available. Faculty applicants must have a PhD or equivalent degree in biostatistics, statistics or related field. Good communication skills and ability to work as a member of a multidisciplinary team are essential.

Baylor College of Medicine is an Affirmative Action/Equal Opportunity/Equal Access Employer. Hiring is contingent on eligibility to work in the United States. Houston is a wonderful community for work, family, and play.

To apply, send a letter of application including a list of three references and curriculum vitae to DLDCC Biostatistics Director, Susan Hilsenbeck, PhD, Attn: Shari Yepez, One Baylor Plaza, BCMC-450A, Houston, TX 77030. You may also email your documents to sgh@bcm.edu.

www bcm edu/cancercenter
University of Pittsburgh
Graduate School of Public Health

Department of Biostatistics
Tenure-Track Faculty Positions

The Department of Biostatistics in the Graduate School of Public Health at the University of Pittsburgh seeks applicants for two tenure-track positions at the assistant, associate, and/or professor level, to begin in fall 2011 or earlier. We seek outstanding individuals with a commitment to biostatistical methods, collaborative research, and teaching. We have particular interest in candidates with research expertise in several areas including, but not limited to, clinical trials, comparative effectiveness research, geospatial analysis, and observational studies. For further information, please go to www.biostat.pitt.edu.

Review of applications will begin immediately and continue until the positions are filled. Rank and salary will be determined by the candidate’s credentials. New PhDs and postdoctoral fellows are encouraged to apply. Candidates should submit a letter of application including a statement of current and future research interests, curriculum vitae, and the names and contact information for three references. Electronic applications are preferred and should be sent to biost@pitt.edu.

Applications may also be submitted via mail to: University of Pittsburgh Graduate School of Public Health Department of Biostatistics, Biostatistics Faculty Search Committee, Howard Rockette, PhD, 130 De Soto Street, Pittsburgh, PA 15261.

The University of Pittsburgh is an equal opportunity, affirmative action employer.

CANADA

Ontario

Statistics/actuarial science—tenure-track assistant professor in statistics. PhD in statistics, computer science, or closely related discipline; demonstrated research record in modern computational statistics; good teaching and communication skills. See www.stats.uwaterloo.ca. Submit CV and three reference letters to David E. Matthews, Chair, Statistics and Actuarial Science, University of Waterloo, Waterloo, Ontario N2L 3G1, Canada. Closing: Dec. 31, 2010. AA/EOE.

Statistics/actuarial science, tenure-track full professor, survey sampling. PhD in statistics, strong research, graduate supervision, leadership, and scholarship; internationally recognized as leading statistical scientist; active involvement in the International Tobacco Control Project anticipated. See www.stats.uwaterloo.ca. CV and three reference letters to David E. Matthews, Chair, Statistics and Actuarial Science, University of Waterloo, Waterloo, Ontario N2L 3G1, Canada. Closing: Dec. 31, 2010. AA/EOE.

Statistics/actuarial science—tenure-track assistant professor in actuarial science. PhD in mathematical, statistical, or actuarial sciences and demonstrated research record in actuarial science. Professional actuarial qualifications an asset. Good teaching and communication skills; see www.stats.uwaterloo.ca. Submit CV and three reference letters to David E. Matthews, Chair, Statistics and Actuarial Science, University of Waterloo, Waterloo, Ontario N2L 3G1, Canada. Closing: Dec. 31, 2010. AA/EOE.

International

Applicants with PhD in statistics or related fields are invited to apply for a full professorship and several assistant/associate professorships. The university offers competitive remuneration, generous research funding, relocation assistance, and other benefits. Applicants should send their application letter, CV, and 3 reference letters by post/email to: Department of Statistics and Applied Probability, National University of Singapore, 6 Science Drive 2, Singapore 117543. Email: stasec@nus.edu.sg EOE.
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