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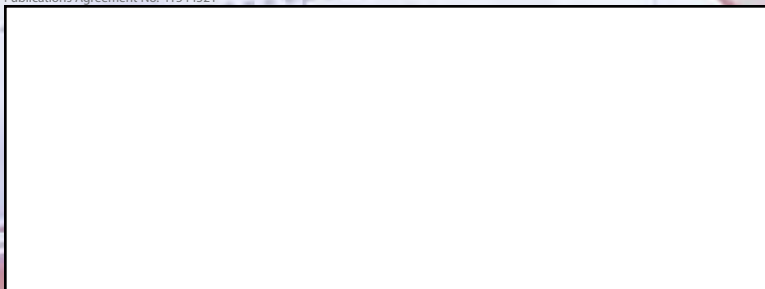
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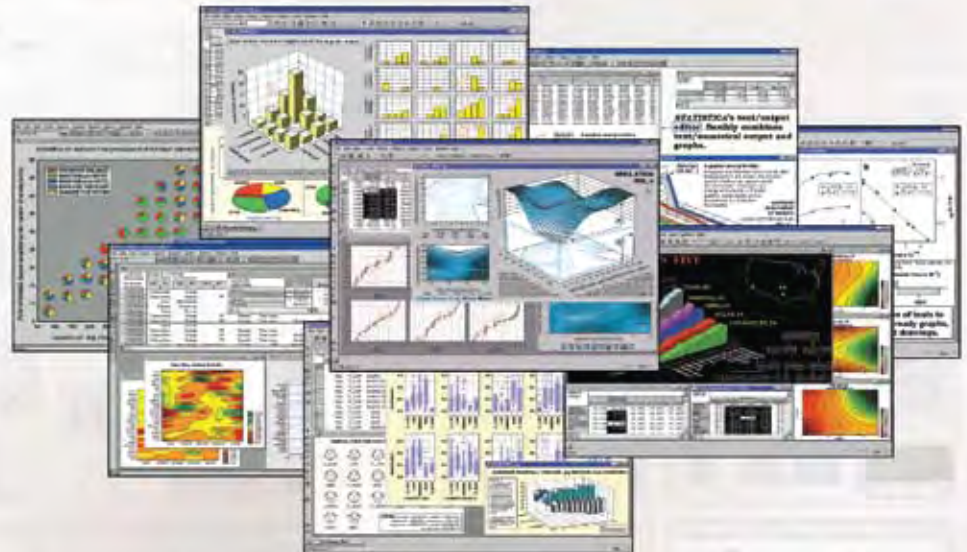
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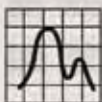
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The American Statistical Association is the world's largest community of statisticians. The ASA supports excellence in the development, application, and dissemination of statistical science through meetings, publications, membership services, education, accreditation, and advocacy. Our members serve in industry, government, and academia in more than 90 countries, advancing research and promoting sound statistical practice to inform public policy and improve human welfare.

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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.



Brager

Contributing Editor

Gary Brager earned his PhD in research, statistics, and measurement from the University of Maryland and is currently the supervisor of research for the Baltimore County Public Schools. He reviews program evaluations, grant evaluations, and external requests to conduct research; maintains a statistical series about schools and programs; and develops better ways to present statistical information.

16 **SCIENCE POLICY** **Reproducible Research**

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.



Baggerly

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Berry

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Online Articles

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

NSF, CBMS Announce Conference Series, Call for Proposals

The National Science Foundation will hold six conferences with the Conference Board of the Mathematical Sciences in the spring and summer of 2011. Each of the five-day conferences will feature 10 lectures on a topic of important current research in a focused area of the mathematical sciences. A monograph will be published afterward. Also, proposals for 2012 conferences will be accepted until April 15. For more information about the conferences or guidelines for proposal preparation, visit the news and announcements section of *Amstat News* online at <http://magazine.amstat.org/blog/category/addfeature/news-and-announcements>.

Restructuring Research at the Census Bureau

Government statistical agencies face challenging problems in meeting their missions in the modern world. To address these problems, the U.S. Census Bureau is forming a new research and methodology directorate. As its first director, ASA member Roderick Little describes some of the goals of this venture. Read this article online at <http://magazine.amstat.org>.

NIAID Awarded Contract to Develop Statistical Methods, Math Models

The National Institute of Allergy and Infectious Diseases (NIAID), part of the National Institutes of Health (NIH), recently awarded a five-year, \$11.9 million contract to the University of Rochester (UR) Medical Center to continue the work of the Center for Biodefense Immune Modeling (CBIM). To read the entire article, visit the *Amstat News* website News and Announcements section at <http://magazine.amstat.org>.

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News and Announcements

Make sure you visit our News and Announcements page online at <http://magazine.amstat.org/?cat=19> to discover what has been going on in the statistical community.

2011 President: An Introduction

It happens every January: a new year, a new ASA president. I have been looking forward to this opportunity from the moment of that surprising phone call from ASA Executive Director Ron Wasserstein telling me I won the election. I say “surprising” because I think it is the first election I have won since elementary school (not that I have run in so many).

I have spent the last year learning a lot about the ASA, making 150 committee appointments, and chairing the Leadership Support Council (LSC) in its first year of existence. Beginning in 2010, the LSC replaced the Committee on Committees as the body that coordinates ASA committee activities. I also designed three initiatives and set up working groups to implement them. I will write future columns about the first year of the LSC and my presidential initiatives.

I am not sure what prepares someone to be the president of an organization as large and multifaceted as the ASA. In my day job, I am director of the Office of Biostatistics Research at the National Heart, Lung, and Blood Institute. My group is comprised of 13 individuals who are well known throughout our institute and the National Institutes of Health for their statistical talent, collegiality, and ability to participate in team science. I encourage their talents and initiative without micromanaging, and I try to help out if things don't go so well. We communicate openly, even about the “bad stuff.”

It is a large step from my day job to the ASA presidency—and I am still keeping my day job. As a U.S. government employee, I am restricted from participating in any political activity on behalf of the ASA. Since much of our science policy activities involve the U.S. government, I must leave the public face of these issues to others. I also am restricted from active fundraising and can only use my day job title incidentally, not prominently.

Perhaps another role I have played that has helped prepare me for the ASA presidency is that of president of the International Society for Clinical


Biostatistics (ISCB), a much smaller, predominantly European organization. Everything I learned from ISCB must be scaled up hundreds of times! In a small organization, the president can know many of the details. In an organization as large as the ASA, the president must often rely on others to gain understanding of details. Communication is essential, and I must remember that nothing I do for the ASA is in a vacuum.

I have found it worthwhile to tell “the presidents” and Ron about all of my activities and members of the LSC about anything relevant to them. In 2011, I hope to communicate more broadly, using these columns to tell you about much of what we do. I will travel to many meetings and chapters in 2011. I plan to tell you about these visits, just as I wrote last month about the symposium in honor of Steve Lagakos.

I have had the privilege of working with members of the ASA Board for the past year and thank everyone on it for sharing their experiences and views and teaching me so much about this vibrant organization. I look forward to learning more in 2011. I want to especially thank Sastry Pantula (now past-president), Sally Morton (now former past-president), and Ron for mentoring me and preparing me for my presidential year. I hope I live up to your expectations.

Please remember that this is your organization. If I may speak for the board of directors and the ASA staff, we are always happy to hear from you. Of course, we welcome your suggestions; and if you do have a complaint, perhaps you also will offer a possible solution. We are all striving toward making our profession thrive, even if we want to go about it in different ways. I look forward to working with you in 2011 and beyond.

Best wishes to all for a successful 2011.




Nancy Geller

Accreditation: Pilot Test Successful, Program Under Way

I applied for accreditation because it would prove useful in my consulting business . . .

The ASA's program for voluntary individual accreditation is under way, and according to ASA Executive Director Ron Wasserstein, "voluntary" is the operative word.

"Some members of the ASA will find value in a peer-evaluated credential that is distinct from their educational credentials," Wasserstein said. "The accreditation program is entirely meant as a professional service to such members. It won't be something needed by everyone, but some will find the additional credential valuable."

Interest in such a program was plainly noted during a 2009 survey of members, Wasserstein said, and borne out by the initial applicants for accreditation. For example, Rhonda Rosychuk, a PhD statistician in the department of pediatrics at the University of Alberta, said, "In working in a clinical setting, most physician colleagues have accreditation. It was important for me to also have accreditation in this setting to be recognized as a professional." Rosychuk is accredited by both the ASA and the Statistical Society of Canada.

"I applied for accreditation because it would prove useful in my consulting business," said Timothy Bergquist, professor of quantitative methods at Northwest Christian University. "It would have no impact on my academic standing as a professor. However, it also provided me with peer-level acknowledgement of my capabilities as a professional statistician, in addition to my academic degrees."

The accreditation program was launched this fall, when the ASA Accreditation Committee began

conducting what it calls a "pilot test" of its operating procedures. About 60 people who expressed interest in accreditation were invited to apply. When their credentials were submitted, they were reviewed by teams of committee members (www.amstat.org/accreditation/committee.cfm). A list of those ASA members who have been accredited thus far is available at www.amstat.org/accreditation/memberlist.cfm.

The ASA Board of Directors approved the general principles for accreditation in July of 2009. In April of 2010, the board approved an implementation plan, including guidelines for accreditation, and charged the accreditation committee with implementing the program. After developing processes and protocols, the accreditation committee tested them on its own members. Each member of the committee applied for accreditation, and their applications were reviewed through the designed process.

At the same time, ASA IT staff members developed an online application and review system. With the system in place, members of the accreditation committee began pilot testing in October 2010. The initial pilot test continued through the end of the year; the process will now open to more applications.

Details of the accreditation program are available at www.amstat.org/accreditation. People interested in applying for accreditation should signal their interest by completing the Intent to Apply form. Filling out the form does not imply any obligation, but does let the accreditation committee know of the potential applicant's interest. Members of the accreditation committee will notify potential applicants when there is an opportunity to apply.

Some have waited a long time for an accreditation program to be developed. "Accreditation has been a desire since my earliest days of membership, spanning more than 45 years," said biostatistician John Bartko. "Frankly, accreditation neither advances my career nor would nonaccreditation compromise it. But I would have regretted not having applied, given my strong feelings for the ASA accreditation program." ■

Trainees Wanted for SIBS II Program

In response to a national shortage of trained biostatisticians, the National Heart, Lung, and Blood Institute (NHLBI) funded three summer internship programs at various biostatistics/statistics departments throughout the country. The target participants for these Summer Institutes for Training in Biostatistics (SIBS) were outstanding quantitatively oriented undergraduate students interested in the biological sciences. Their primary purpose was to interest students in biostatistics training at the graduate level.

Encouraged by the success of SIBS, the NHLBI and National Center for Research Resources (NCRR) solicited applications for SIBS II programs to be held in the summers of 2010, 2011,

and 2012. The following eight programs were funded:

Boston University
<http://sph.bu.edu/sibs>

Emory University
www.sph.emory.edu/bios/SIBS

University of Iowa
www.public-health.uiowa.edu/biostat/sib/overview.html

NC State University – Duke
Clinical Research Institute
www.stat.ncsu.edu/sibs

University of Pittsburgh
www.biostat.pitt.edu/sibs

University of South Florida
<http://health.usf.edu/sibs>

Washington University in
St. Louis
www.biostat.wustl.edu/sibs

University of Wisconsin
www.biostat.wisc.edu/Educational_Resources/SIBS

The cost of tuition, fees, housing, meals, and extracurricular activities are covered by each program. Prospective trainees should contact the individual SIBS II sites for specific information about their programs and the site-specific online application forms. Students may apply to multiple SIBS programs, but accept only one offer. Admission decisions are being made on a rolling basis, but the application deadline is March 4.

For more information, visit www.nhlbi.nih.gov/funding/training/redbook/sibsweb.htm. ■



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Will Your 2011 JSM Poster Have Statistical Significance? Announcing the SPA Poster Competition



2009 *Statistical Significance* poster competition winner, written by Richard A. Forshee and Mark O. Walderhaug

The Scientific and Public Affairs (SPA) Committee invites all 2011 JSM poster authors to compete for a policy applications prize in its second semiannual *Statistical Significance* competition. A \$200 prize will be awarded to the author of the JSM poster that includes a *Statistical Significance* piece describing the best contribution of statistics to society. (Participation is only available to poster authors who submit their poster abstract to the ASA by February 1.)

What constitutes a *Statistical Significance* piece? *Statistical*

Significance is a short, one-page illustration of the value of statistics to society. The objective is to illustrate to a lay person how statistics has helped our society in a specific area (e.g., health, agriculture, economy, education, manufacturing, medicine, etc.). The most effective *Statistical Significance* pieces are easy to develop, simple in exposition, enlightening, and fun to read. See www.amstat.org/outreach/statsig.cfm for examples.

The contest requires the poster's subject matter to be included in the *Statistical Significance* piece and the *Statistical Significance* piece to accompany the poster presentation at JSM. Poster authors will prepare their posters as they normally would, but add a *Statistical Significance* piece to them.

A panel of judges appointed by the SPA committee will review the *Statistical Significance* pieces at JSM and determine a winner on the morning of August 3. The winner will be notified immediately thereafter.

To enter, email your intention to compete and abstract number to SPA member Dan McCaffrey at danielm@rand.org when you submit your abstract. Feel free to contact McCaffrey if you have any questions. ■

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A Message from New *JABES* Editor

Montse Fuentes, *JABES* Editor

I would like to introduce myself as the new editor of the *Journal of Agricultural, Biological, and Environmental Statistics (JABES)* and welcome my team of 25 associate editors. I look forward to working closely with them over the next few years.

We have been working on several exciting initiatives. First, we are transitioning to an electronic paper submission system managed by Springer this month. The website for the journal is <http://tinyurl.com/3xz9qb8>.

The Springer team, led by Marc Strauss, is eager to help with our outreach efforts and bring more visibility to the journal. Springer also is working toward making the submission process as efficient as possible. I am confident it will be a smooth transition. Questions regarding submissions can be emailed to Strauss at Marc.Strauss@springer.com.

Second, we are planning to organize a number of topical special issues on timely research problems. One is titled "*JABES* Special Issue on Climate Change and Health." Guest editors are Roger Peng of The Johns Hopkins University (rpeng@jhsph.edu) and Bo Li of Purdue University (boli@purdue.edu).

For this issue, we are soliciting papers covering a wide spectrum of areas related to both climate change and health. Papers addressing statistical issues related to climate modeling, modeling of risk factors or environmental exposures, or assessment of health effects of climate-sensitive factors are welcome. We are particularly interested in papers that directly link these different areas. The submission

deadline for this special issue is November 30.

Another special issue, titled "Computer Models and Spatial Statistics for Environmental Sciences," will focus on statistical methods that use complex computer models to address environmental problems. We especially encourage papers with applications to agricultural and biological sciences for this issue. The submission deadline is April 30. Guest editors for this issue are Brian Reich of North Carolina State University (reich@stat.ncsu.edu) and Murali Haran of Penn State (mharan@stat.psu.edu).

If you would like to contribute to either issue, email the guest editors.

Third, Sudipto Banarjee, a member of the *JABES* editorial board, has organized an invited session for JSM 2011. This session, sponsored by ENAR, presents the work of Alan Gelfand of Duke University, Andrew Finley of Michigan State University, and Bruno Sanso of the University of California, Santa Cruz, among others.

Last (but not least), we hope to have the new *JABES* cover ready soon. It is waiting for final approval, and I cannot wait to share it with you.

One of my priorities as editor is to seek good quality papers and allow *JABES* to distinguish itself. Quality, for me, is defined in terms of the papers' contribution to and impact on the statistical and subject matter fields. I think it is important to provide the most appropriate statistical tools to solve important and well-defined scientific problems. Thus, I seek innovation in statistical methods that help advance our field.



Montse Fuentes

However, I do not wish to introduce unnecessarily "sophisticated" papers that discuss impractical statistical approaches. It is my priority to publish the most appropriate statistical methods to address important problems in the agricultural, biological, and environmental sciences. This includes human health problems when there is a clearly motivated environmental connection.

I very much welcome comments and look forward to continued interaction with you over the coming years. ■

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Salary Survey of Biostatistics and Other Biomedical Statistics Departments

Keith Crank, ASA Research and Graduate Education Manager

On the following pages are results from the fall 2010 Salary Survey of Biostatistics and Other Biomedical Statistics Departments and Units, conducted by the ASA. All salary figures are for a 12-month period. As in the past, previous salary survey data have been included for comparative purposes. The estimates are based on responses from 33 departments, plus a few individuals who responded to the survey. Questions regarding the tabulations should be addressed to Keith Crank, ASA research and graduate education manager. If you would like your biostatistical unit to participate in future surveys, contact Crank at keith@amstat.org.



Table 1—Salaries for Faculty of Biostatistics and Other Biomedical Statistics Departments and Units

Rank/Year in Rank	Percentile	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010
		Sample Size	Sample Size	Sample Size	Sample Size	Sample Size	Sample Size	Sample Size
Assistant 1–3	25th	\$73,345	\$79,560	\$82,400	\$86,000	\$89,200	\$89,100	\$89,500
	50th	78,640	83,000	85,000	88,452	93,600	93,500	93,600
	75th	84,505	88,000	90,000	92,869	98,300	99,100	102,600
		(76)	(149)	(112)	(106)	(69)	(82)	(78)
4 or more	25th	\$78,611	\$81,588	\$84,476	\$87,400	\$90,500	\$89,400	\$91,000
	50th	83,408	87,000	88,471	92,000	95,500	95,500	97,300
	75th	87,018	94,039	94,819	98,220	106,200	100,700	103,000
		(48)	(55)	(48)	(65)	(62)	(87)	(101)
Associate 0–2	25th	\$92,000	\$94,255	\$89,937	\$102,525	\$102,500	\$102,400	\$103,000
	50th	96,056	100,215	100,441	110,493	110,800	114,000	110,100
	75th	99,759	103,378	113,000	118,900	127,000	129,200	122,400
		(35)	(40)	(46)	(50)	(36)	(62)	(46)
3 or more	25th	\$88,142	\$95,634	\$101,384	\$105,000	\$109,300	\$108,100	\$110,100
	50th	97,000	103,334	107,981	109,350	118,000	116,800	123,800
	75th	107,313	117,747	120,000	124,924	130,000	130,000	141,000
		(47)	(53)	(65)	(66)	(69)	(69)	(94)
Full 0–6	25th	\$115,000	\$122,095	\$127,893	\$137,991	\$130,200	\$127,100	\$138,500
	50th	130,500	147,988	147,488	163,870	145,200	152,300	159,100
	75th	156,000	172,664	177,840	180,365	174,600	181,100	185,000
		(46)	(47)	(54)	(60)	(65)	(84)	(66)
7 or more	25th	\$126,931	\$127,630	\$139,959	\$147,575	\$156,200	\$145,600	\$163,300
	50th	148,000	151,410	172,523	180,760	187,000	178,600	194,200
	75th	164,459	171,303	197,277	209,147	215,500	203,200	222,600
		(72)	(87)	(84)	(71)	(77)	(92)	(97)
Starting Assistant Professors	25th	\$72,100	\$81,600	\$77,500	\$84,000	\$87,500	\$103,200	\$85,000
	50th	79,342	84,000	82,400	85,000	91,500	107,000	90,000
	75th	83,000	95,833	85,279	93,150	98,500	110,600	104,100
		(34)	(22)	(27)	(13)	(09)	(12)	(11)

Beginning with the 2009 survey, gender data were collected along with the salary information. Table 2 provides quartiles for the groups in Table 1, separated by gender.

In 2009, the ASA continued to collect data on nonfaculty, academic statisticians and

biostatisticians. Table 3 provides information about the salaries for full-time, nonfaculty academic biostatisticians. (There were not enough responses for nonfaculty academic statisticians to provide summary statistics.) Quartiles are provided for categories that have nine or more respondents. The

Table 2—Quartiles for the Groups in Table 1, Separated by Gender

Title	Years in Rank	Gender	Count	1st Quartile	Median	3rd Quartile
Assistant Professor	0	Male	5	NA	\$86,000	NA
		Female	6	NA	\$95,000	NA
	1–3	Male	46	\$88,300	\$93,500	\$99,700
		Female	32	\$91,000	\$94,000	\$105,700
	4 or more	Male	49	\$91,500	\$97,100	\$103,000
		Female	52	\$90,900	\$97,400	\$103,000
Associate Professor	0–2	Male	31	\$102,500	\$111,500	\$124,500
		Female	15	\$104,500	\$108,800	\$116,800
	3 or more	Male	60	\$110,000	\$122,700	\$139,500
		Female	34	\$115,500	\$126,900	\$148,800
Full Professor	0–6	Male	47	\$145,500	\$164,000	\$185,000
		Female	19	\$134,000	\$139,000	\$189,600
	7 or more	Male	74	\$163,100	\$200,000	\$223,600
		Female	23	\$163,900	\$190,000	\$213,500

Table 3—Salaries for Full-Time, Nonfaculty Academic Biostatisticians

Highest Degree	Years Since Highest Degree	Count	1st Quartile	Median	3rd Quartile	90th Percentile
Master's	0 to 2	21	\$52,400	\$55,500	\$67,000	\$79,800
	3 to 5	19	\$56,900	\$57,300	\$71,000	\$73,300
	6 to 10	22	\$60,800	\$65,000	\$75,300	\$76,800
	11 to 15	11	\$72,800	\$77,000	\$92,500	NA
	16 or more	10	\$81,100	\$88,100	\$91,900	NA
	All	90	\$56,900	\$67,000	\$76,800	\$88,600
PhD	All	12	\$78,500	\$92,700	\$102,600	NA

90th percentile is provided for any category that has 19 or more respondents. All percentiles are rounded to the nearest \$100. (The information for seven

people with master's degrees did not include years since highest degree. They are included in the row marked "All.") ■

MEMBER SPOTLIGHT

Christopher Gotwalt

In a way, there is no such thing as a pure statistician. Every statistician works in at least one other discipline, whether genetics, manufacturing, agriculture, medicine, mathematics, or economics. A serendipitous sequence of events brought me to statistical computing and my position at SAS, where I'm the statistical applications manager for the JMP division.

I grew up in the Tampa Bay area and graduated from the University of Florida with a major in mathematics and a minor in physics. Like most college students, I spent a lot of time thinking about what kind of work I wanted to pursue after college. Because of my passion for mathematics and science, the many potential career paths I considered included electrical engineering, actuarial science, and teaching.

In my last year at UF, I took a couple of statistics classes and became excited about the prospect of a career in statistics because it is an inherently interdisciplinary mathematical discipline that offers many opportunities in industry. I decided that statistics was the career for me, and—after a whirlwind weekend in which I graduated from college on Saturday, got married on Sunday, and moved to Raleigh, North Carolina, on Monday—I began graduate studies in statistics at North Carolina State University on Tuesday.

Early in my graduate career, it wasn't obvious what my secondary discipline would be. During my first year at NC State, I had a Hewlett-Packard calculator that came equipped with an LISP programming language

interpreter. I found myself spending hours programming it to do statistical calculations and replicating results SAS reported in my applied statistics class assignments.

One day in a computing lab class, the professor pointed out that a relatively recent graduate of NC State had developed the SAS procedure we were learning that day. A friend sitting next to me turned and said, "That's what you should do, Chris! The thing you're the most interested in is statistical computing, and SAS is just down the road from here." He was right, and computer science became my second discipline. With the support and guidance of my PhD adviser, Dennis Boos, I began pursuing a career in statistical computing by taking steps in that direction via courses, internships, and doctoral research.

In 2001, I began an internship developing statistical software in C++ for JMP. That internship turned into a full-time position when I graduated in 2003. One of the things I love about working for JMP is that it is like a little company inside a big company and you get the best of both worlds. SAS is widely recognized as one of the best companies to work for in the country. We just celebrated being ranked No. 1 in that category by *Fortune* magazine. The JMP division, which develops interactive data visualization and analysis software, has a relatively small development staff, and I enjoy the opportunity to wear many hats and work in a variety of statistical areas.

Early in my career, I developed software tools for item analysis, a type of psychometric ability



Christopher Gotwalt

testing. Later on, I developed JMP platforms that analyze data using linear mixed models and generalized linear models. In 2006, I was developing tools for analyzing data from computer simulation experiments using Gaussian process models. More recently, I've led an initiative for JMP to expand its support of interactive modeling tools

Member Spotlights Wanted

The managing editor of *Amstat News* is searching for ASA members who are willing to put themselves in the spotlight and write a brief article about their life, to be published in an upcoming issue.

The article should be 500 or fewer words and contain professional and personal information. Please include a photo or two of yourself and email it to *Amstat News* Managing Editor Megan Murphy at megan@amstat.org.

I'm developing software tools for data mining using neural networks and working on algorithms for Bayesian optimal design of accelerated life tests, a type of engineering reliability experiment.

for the analysis of engineering reliability data.

Developing algorithms for optimal design of experiments has provided some of the most interesting and challenging work of my career so far. Optimal

design boils down to an optimization problem with combinations of categorical and continuous inputs in which there can be various constraints on the input factors. I've enjoyed cutting my teeth on putting together

numerical tools that solve that problem efficiently. Another area of particular interest has been design for nonlinear models, where it is necessary to take on a Bayesian approach that incorporates prior information on the model and parameters.

I took on management responsibilities in the summer of 2008, and now I lead the talented team that makes up the statistical software development group for JMP. I'm still what you would call a working manager. Currently, I'm developing software tools for data mining using neural networks and working on algorithms for Bayesian optimal design of accelerated life tests, a type of engineering reliability experiment. These differ from classical design problems because of the nonlinearity introduced by working with non-Gaussian distributions and the fact that you have to plan for the finite length of the study, which inevitably causes many of the experimental observations to be censored. I spend time interacting with our customers, both collecting their feedback and suggestions and occasionally providing light statistical consulting.


Outside of work, my wife, Jessica, and I are gradually renovating our 135-year-old house in downtown Raleigh, which has been an adventure in itself. In the evenings when I have time, I pick away at ragtime piano pieces and have spent some time learning transcriptions of old Jelly Roll Morton jazz piano rolls from the early 20th century. Last year, I got hooked on hot yoga, which I practice several times a week. I've found it to be a great way to stay in shape and reduce stress.

Working in the statistical software industry is challenging and rewarding. I am extremely honored to contribute to the software tools that companies use to improve the products we use every day, from the processors in our laptops to the drugs we take to keep us healthy. ■

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Advice for Statistics Folks Who Recently Entered the Job World

Gary Brager, Baltimore County Public Schools Supervisor of Research

After 44 years as a statistician for Baltimore County Public Schools (BCPS), I have learned a few things new employees might find useful. The Office of Research provides statistical and program evaluation services to central offices, the superintendent, the board, government agencies, and more than 160 schools. The office also is charged with handling more than 100 external research requests annually. These proposals arrive from agencies, universities, companies, and individuals. Unlike an academic unit, the office rarely produces original research; the name probably should be Office of Statistics.

Some tips for beginners and a few explanatory anecdotes:

Tips: Learn as much as possible about the jobs of the people for whom you are providing services. Establish relationships with the contact people in the fields. Know the data sources so well that you can spot problems before they explode.

Anecdote: A school was cited by the state as failing to make adequate yearly progress due to a particular subgroup. My knowledge of the demography led me to question the subgroup size. I just knew there were far too many students assigned to that subgroup. Larger samples produce smaller confidence intervals, hence less leeway for deviation. Upon investigation, we discovered that numerous coding errors occurred at the time of registration. Correcting the data



moved the school from failure to success. Notice the school was never really in trouble; the data had failed.

Lesson: Processing bad data will lead to erroneous conclusions, regardless of

Take your work
most seriously,
but never
yourself.

your statistical aptitude or software sophistication.

Tips: Know the audience for your reports. The level of analysis and level of presentation are not necessarily the same.

Anecdote: Fresh out of graduate school, I gave a very erudite lecture to a room of elementary school principals. My

slides impeccably presented the typical research sequence used for dissertations, replete with three-way ANCOVAs, multiple regressions, formulas, and so forth. I was pleased with myself.

First, the advanced analyses were conducted on data that were likely ordinal at best. Second, I could have been talking Martian for all my audience knew. Not only did they politely ignore what I was saying, they politely ignored any practical significance of the results.

Over the years, I have worked hard at developing ways to explain complex statistics. Please note that I am not advocating using only basic statistics in the analyses. The research questions, design, and measurement determine the proper statistics. I am pleading for finding better ways to present the results, so they are understood and applied.

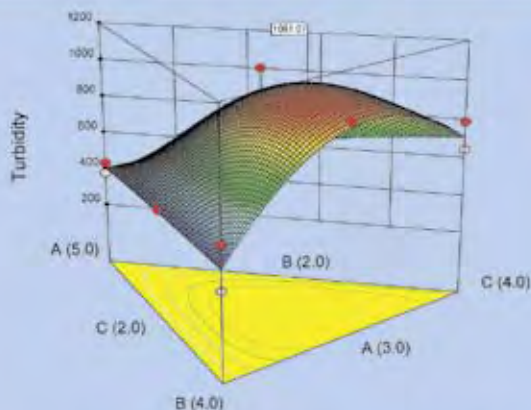
Lesson: Statistics ill-presented will be ill-used or totally forgotten.

Tips: Keep as up-to-date on applications of statistics as on statistical matters. Read journals, contribute articles, and attend conferences and workshops. Maintain a sense of humor and perspective. Take your work most seriously, but never yourself.

I was taught this story many years ago: "... [G]overnments are very fond of amassing statistics, analyzing them endlessly, carrying out calculations to many decimals, and publishing the results in huge volumes, all the while forgetting that the original data came from the village watchman, who put down whatever he pleased ..."

Have a productive, satisfying career in statistics. Someday, I may actually master the subject! ■

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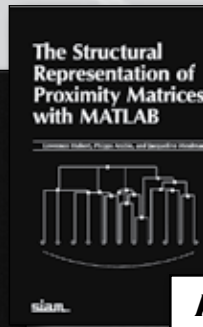
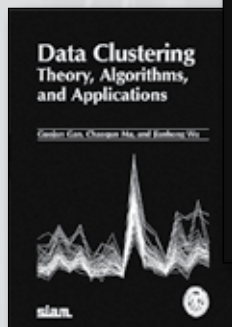
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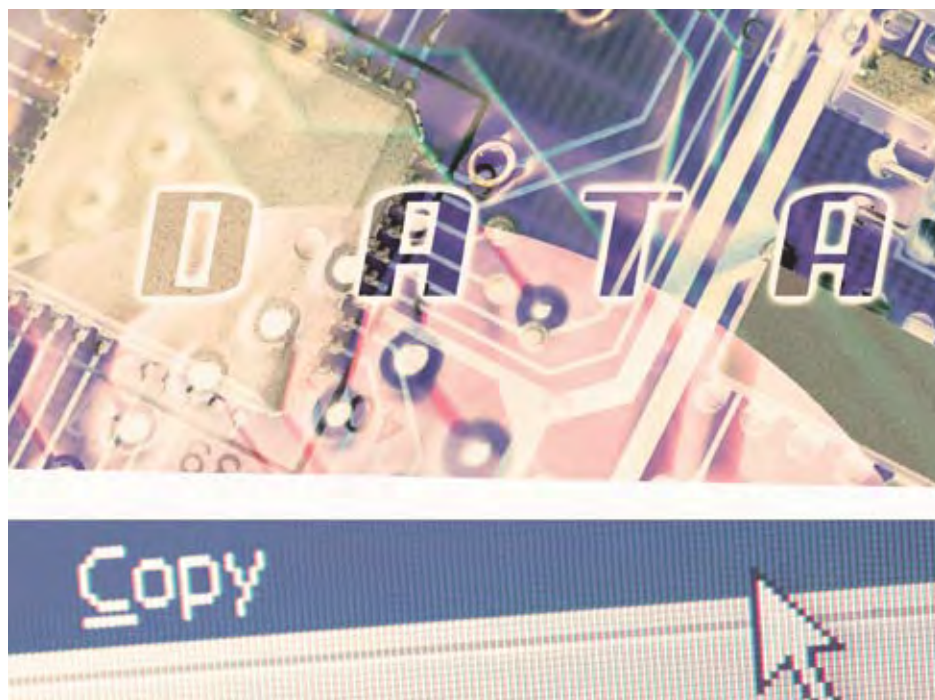
SCIENCE POLICY

Reproducible Research

Keith A. Baggerly and Donald A. Berry, MD Anderson Cancer Center

This month's guest editors, Keith A. Baggerly and Donald A. Berry, make the case that journals have a key role to play in making research reproducible. Their call comes in the aftermath of attempts to reproduce the cancer research results of Duke's Anil Potti and Joseph Nevins, whose seemingly promising 2006 work led to three clinical trials. Baggerly and colleague Kevin R. Coombes were the lead figures to uncover not only an inability to reproduce the research, but many obstacles in attempting to do so. In November, Duke terminated all three trials and Anil Potti resigned.

- Steve Pierson, ASA Director of Science Policy



Research is reproducible if it can be reproduced by others. Of course, rerunning an experiment will give different results—an observation that gave rise to the development of statistics as a discipline. Our focus here is “reproducible research” (RR) in the sense of reproducing conclusions from a single experiment based on the measurements from that experiment.

In the 1990s, the geophysicist Jon Claerbout became frustrated with new students having great

difficulty duplicating previous students' research. Making further advances meant spending months, or even years, trying to reproduce previous advances. Reproducing computations can be agonizing, even with one's own calculations. The problem is exacerbated by the passage of time. We suspect all applied statisticians have had such an experience.

Our definition of RR includes a complete description of the data and the analysis of that data—including computer

programs—so the results can be exactly reproduced by others. RR is self-contained. This is obviously important in Claerbout's motivating context. But it is as or more important in letting others judge the appropriateness of the analysis.

As data sets become more voluminous and complex, RR is increasingly important because our intuition fails in high dimensions. Investigators know how expression levels of some genes predict patient outcomes, but nobody understands the predictive efficacy of “signatures” involving hundreds of genes. Researchers may think they know, but we have (inadvertently) performed the null experiment of giving an investigator a list of random genes—purportedly prognostic—and having the investigator explain why they made sense. To use complex signatures, we must trust that the steps taken to produce them are accurate, or at least checkable.

Much scientific research cannot be reproduced, which can have severe consequences. We recently tried to reproduce reports that drug sensitivity “signatures” could predict patient response to cancer chemotherapy. Since the reported methods were incomplete, we employed “forensic bioinformatics” to reconstruct the methods used to derive the reported results. These

reconstructions identified several basic errors, including drastic mistakes such as reversing “sensitive” and “resistant” labels. These errors initially went unnoticed because it was impossible to easily check the steps.

We published our reconstructions in September of 2009. Clinical trials in lung cancer at Duke University had begun two years before. Lack of clear reproducibility hampered corrective action. Trials were suspended in October of 2009 while Duke investigated our claims. Trials were restarted in January of 2010, although Duke didn't release the investigation's report or the data justifying the restart. A redacted report became available in May under the Freedom of Information Act. It indicated that important problems of reproducibility were not adequately addressed. In the interim, we publicized new problems with the analysis.

In July, it was revealed that a principal investigator had allegedly made false claims (including a Rhodes scholarship) on his CV and in grant applications. Several statisticians wrote to Harold Varmus, director of the National Cancer Institute, to request the trials be suspended again, and they were. Journals that had published the investigators' results began independent investigations. In October of 2010, the senior author requested retraction of a paper on which the trials were based, citing problems we reported to Duke in November of 2009.

Journals must begin to demand RR. Convincing them will not be easy. Authors have legitimate concerns, including data ownership, intellectual property, and identifying where data can be accessibly stored. Despite these concerns, there is growing recognition that RR is important. Spurred by the forensic episode cited above, the

Institute of Medicine announced a review of omics-based tests in clinical trials in October of 2010. Sessions on RR are more common at scientific and editorial board meetings. Journal editors are aware that irreproducibility can damage credibility and are open to suggestions regarding improvements.

Simple enforcement of rules many journals already have (e.g., that data be posted) at even a cursory level would help. The journal *Biostatistics* has an associate editor for reproducibility who can assign grades of merit to conditionally accepted papers: D: data are available, C: code is available, and R: the AE could run the code and reproduce the results without much effort.

This last constraint requires authors to make their code user friendly, but we see no alternative. Few reviewers have the time or expertise to assess reproducibility, though they can check whether data and code are provided. In a September *Nature* letter, we and others described information journals should elicit from authors. This includes data (raw, processed, and clinical, with indications of provenance), code, descriptions of nonscriptable steps, and prospectively defined analyses (in a protocol, for example), if any.

Motivated by the clear need, we have tried to make our work reproducible. We found the process less cumbersome than we feared. In bioinformatics and computational biology at MD Anderson Cancer Center, we now require that reports be prepared using Sweave. This software uses R and LaTeX. On running Sweave files through R, code is evaluated and results formatted for proper inclusion. Given the report, if we have access to the same raw data, we can run the report and confirm that we obtain the same values. (Example reports are available at

As data sets become more voluminous and complex, RR is increasingly important because our intuition fails in high dimensions.

[http://bioinformatics.mdanderson.org/Supplements/ReproRsch-All.\)](http://bioinformatics.mdanderson.org/Supplements/ReproRsch-All.)

Our adoption of Sweave involved a few months of learning, but we now produce better reports faster because we have reusable templates and we are in the habit of planning for reproducibility from the outset. Alternatives to Sweave, including GenePattern, are available.

Finally, RR is necessary, but not sufficient, for good science. It needn't contain the motivation for what was done, and the motivation may be data-dependent. For example, suppose we compare counts following two treatments, but the results are not statistically significant. So we take logarithms, after adding 0.01 to every count. Then, we tell the “complete” story, starting from taking logarithms. Or perhaps the data we used were “cleaned” before we got them. These potentially fatal biases will not be known by someone checking reproducibility, and they may not be known to the primary analyst. Difficulties with these and other “silent multiplicities” are described in a 2007 piece in *Pharmaceutical Statistics* written by Donald A. Berry.

We exhort statisticians to join in making RR more widespread. Further reading is available at <http://groups.google.com/group/reproducible-research?hl=en>. ■

Statistics and Probability African Society Now a Reality



On World Statistics Day, members of the Statistics and Probability African Society in Senegal organize a training session for secondary teachers about using the statistics package R.

The Statistics and Probability African Society (SPAS) is now official. Five years ago, an initiative under the same name was launched online at www.jafristat.net by African statisticians and probability theory specialists. At the same time, the journal *Afrika Statistika* was born. Very soon after, both projects received significant interest from young researchers and statisticians and probability specialists from African universities.

A database of African specialists was created on the website, and more people have registered to show support for the project. Meanwhile, the journal has been published once a year, with the papers indexed by international mathematical databases such as MathSciNet.

SPAS emerged as a society for the first time at the 57th International Statistical Institute (ISI) conference in Durban, South Africa. Recently, members of the society have been involved in

the ISI's International Statistical Literacy Project (ISLP).

The main objective of SPAS is to contribute to the development of random methods (statistics and probability theory) at both the African and international levels by promoting fundamental and applied research and training. The society also emphasizes participation in Africa's development challenges.

Being unable to physically gather for a general assembly, members of SPAS used the Internet to hold a virtual general assembly. After three months, resolutions were adopted (see <http://univi.net/spas/anglgova.php>). Now, the executive committee is developing a strategic development document that includes plans to foster and enlarge statistics and probability training programs, promote random methods in Africa, carry out African-level research programs on specific challenges, and provide bridges between official statistics and academia. ■

International Statistics Conference Seeks Papers, Participation

The Applied Statistics Association of Sri Lanka and The University of Sydney School of Mathematics and Statistics will hold an international statistics conference in Colombo, Sri Lanka, from December 28 to 30 and are soliciting papers in English from all areas of statistics, related applications, and statistics education. The theme for this conference, “Statistical Concepts and Methods for the Modern World,” allows for presentations on a wide range of topics in theoretical and applied statistics.

The purpose of the conference is to unite statisticians from across the world as they present their latest research findings on statistics theory and applications. C. R. Rao and ASA President Nancy L. Geller will be keynote speakers. In addition, a number of world-renowned experts in statistical science will deliver special invited addresses. These include John Robinson of the University of Sydney, Australia; Martin Hazelton of Massey University, Palmerston North, New Zealand; Roshini Sooriyarachchi of the University of Colombo, Sri Lanka; Frits Ruymgaart of Texas Tech University; Neville Weber of the University of Sydney, Australia; William Dunsmuir of the University of New South Wales, Australia; Rahul Mukerjee of the Indian Institute of Management, Kolkata, India; and Tim Swartz of Simon Fraser University, Canada.

Paper presentations will be predominantly invited, though a limited number of contributed paper sessions will be held. If you would like to contribute, send an abstract of about 300 words



Statue of the Reclining Buddha, Sri Lanka

to shelton.peiris@sydney.edu.au (international participants) or cdt@stat.cmb.ac.lk (local participants) before April 30.

All submitted papers will be reviewed, and accepted papers will be published in a refereed conference proceeding. Outstanding articles that are recommended to the executive editorial board have a higher chance of being published in a special volume of *Sri Lankan Journal of Applied Statistics (SLJAS)* or another refereed international journal.

Full-length manuscripts must be submitted by June 30 with the conference registration fee. Manuscripts submitted without the registration fee will not be considered for publication in *SLJAS* and/or for presentation at the conference.

Sri Lanka

Sri Lanka is a favorite vacation destination for many nationalities. Its natural attractions include miles of sandy beaches, picturesque mountains, tea plantations, botanical gardens, fast-flowing rivers and waterfalls, historical sites, ancient kingdoms, sacred religious places, and lush tropical forests full of exotic wildlife. The island's rich cultural heritage is visible everywhere, including in the many colorful festivals and ceremonies.

For more information about the conference, including registration details, visit www.maths.usyd.edu.au/u/shelton/SLSC2011. ■

ASA/NCTM Joint Committee Seeks Poster, Project Competitions Entries

New international poster competition on tap to increase awareness



Introduce K–12 students to the world of statistics through the 2011 poster and project competitions, directed by the ASA/NCTM Joint Committee on Curriculum in Statistics and Probability. The competitions, now in their 22nd and 25th years, respectively, offer opportunities for students to formulate questions, gather and display data, and draw conclusions from data.

Winners are recognized with plaques, cash prizes, certificates, and calculators (donated by Texas Instruments), and their names are published in *Amstat News*.

Posters judged in four grade-level categories (K–3, 4–6, 7–9, and 10–12) are due every year on April 1. Projects are due on April 1 for grades 4–6 and 7–9 and on May 30 for grades 10–12. More information about the poster and project competitions, including entry forms and two instructional webinars, is available at www.amstat.org/education/posterprojects/index.cfm. ■



International Competition

In addition to the ASA competitions, teams of students working on an environmental theme can submit their poster to the 2011 International Statistical Literacy Project's Poster Competition. This competition shares the goal of increasing the awareness of statistics among students and teachers. It has slightly different rules and eligibility, with both national and international phases. Authors of the winning posters from the United States will compete internationally at the International Statistical Institute's conference in Dublin, Ireland.

The same poster may be submitted to both the ASA poster competition and the international competition if it features an environmental theme and meets the criteria for both competitions.

Posters must be submitted by April 15. Certificates, plaques, and \$1,000 in prizes will be awarded.

More information can be found at www.StatLit.org/US-ISLP.htm, and questions may be directed to the U.S. ISLP country coordinator, Milo Schield, at Schield@Augsburg.edu.

ASA/NCTM Joint Committee Seeks Nominations

Head Judge



The ASA/NCTM Joint Committee on Curriculum in Probability and Statistics for grades K–12 is seeking a head judge for the ASA Project Competition, who would be responsible for overseeing the entire judging process via email. A detailed job description can be found at www.amstat.org/education/posterprojects.

If you know of someone who would be a good fit for this position, submit a nomination with the nominee's name, email address, and a brief description of his or her qualifications to Rebecca Nichols, ASA K–16 education manager, at rebecca@amstat.org by January 15. The search committee will contact the nominees to see if they are interested in applying. Interested nominees must then submit their applications to Nichols by February 1.

Editor and Associate Editors – STN



The ASA/NCTM Joint Committee on Curriculum in Probability and Statistics (K–12) is seeking an editor and associate editors for the *Statistics Teachers Network (STN)*, beginning in the fall of 2011.

STN is a free publication intended to keep K–12 teachers informed of statistical workshops; programs; and reviews of books, software, and technology. It also features articles about classroom activities. More information can be found at www.amstat.org/education/stn.

Send nominations—including the nominee's name, email address, and a brief description of his or her qualifications—to Rebecca Nichols, ASA K–16 education manager, at rebecca@amstat.org by January 30. The search committee will contact nominees to see if they are interested in applying. Interested nominees must then send their applications to Nichols by March 1.

Editor and Associate Editors – STEW



The ASA/NCTM Joint Committee on Curriculum in Probability and Statistics (K–12) is seeking an editor and associate editors for *STatistics Education Web (STEW)*.

STEW is an online repository for peer-reviewed lesson plans and resources for K–12 mathematics and science teachers. It will operate similarly to an ASA journal, having an editorial board consisting of an editor and associate editors. Authors will submit proposed activities to the editor according to a template prepared for that purpose. The editor will determine whether material meets the guidelines for posting by passing it to an associate editor for review and comments. Further information about *STEW* can be found at www.amstat.org/education/stew.

Send nominations—including the nominee's name, email address, and a brief description of his or her qualifications—to Rebecca Nichols, ASA K–16 education manager, at rebecca@amstat.org by January 30. The search committee will contact nominees to see if they are interested in applying. Interested nominees must then send their applications to Nichols by March 1. ■

Mortimer Spiegelman

The American Public Health Association (APHA) Statistics Section invites nominations for the 2011 Mortimer Spiegelman Award, honoring a statistician aged 40 or younger who has made outstanding contributions to health statistics. The award was established in 1970 and is presented annually at the APHA meeting. The award serves three purposes:

To honor the outstanding achievements of both the recipient and Spiegelman

To encourage further involvement in public health by the finest young statisticians

To increase awareness of the APHA and the statistics section in the academic statistical community



The ASA Community

The ASA Community provides an online setting for like-minded statisticians to connect with peers through tools that make it easy to communicate, collaborate, and share.

Networking

ASAGroups

Resource Library

Glossary

Calendar

<http://community.amstat.org>

Deadlines and Contact Information for ASA National Awards, Special Lectureship, COPSS Awards

March 4, 2011
ASA SPAIG Award

Barry D. Nussbaum
nussbaum.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

April 1, 2011
ASA Gertrude M. Cox Scholarship

Pam Craven
pamela@amstat.org

April 1, 2011
ASA Outstanding Statistical Application Award

Nominations: Pam Craven
pamela@amstat.org

Questions: Petrutza C. Caragea
pcaragea@iastate.edu

April 1, 2011
ASA Edward C. Bryant Scholarship

Nominations: Pam Craven
pamela@amstat.org

Questions: Kimberly S. Weems
weems@stat.ncsu.edu

April 1, 2011
ASA Excellence in Statistical Reporting Award

Nominations: Pam Craven
pamela@amstat.org

Questions: Denise A. Lievesley
denise.lievesley@kcl.ac.uk

Candidates for the 2011 award must have been born in 1971 or later. Nominations are due April 1 and should include a nominating letter, the candidate's birthday, a description of the candidate's contributions to public health, and the candidate's CV. Up to three supporting letters may be submitted. Electronic nominations are preferred and can be emailed to Hongyu Zhao, 2011 Spiegelman Award Committee chair, at hongyu.zhao@yale.edu. The mailing address is 2011 Spiegelman Award Committee in care of Hongyu Zhao, 200 LEPH 60 College Street, Yale School of Public Health, New Haven, CT 06520-8034.

SPAIG

The ASA's Statistical Partnerships among Academic, Industry, and Government (SPAIG) committee presented the 2010 SPAIG award to a joint venture between Rutgers University and Pfizer Inc. Rutgers and Pfizer teamed up to develop a program that has provided longstanding and effective synergistic collaboration in education, training, research, and service.

Nominations are now being sought for the 2011 award. Applications, which can be found at www.svsu.edu/orgs/spaig/awards.html, should be submitted to Barry D. Nussbaum at Nussbaum.barry@epa.gov by March 4. The application asks for the origins and a description of the partnership; a discussion of the partnership's benefits; a list of projects, presentations, and publications that have resulted from the partnership; and the business plan and funding arrangements. Questions may be addressed to Nussbaum. ■



9th International Conference on Health Policy Statistics Cleveland, Ohio October 5–7

Focusing on advancing methods to improve health care through various studies and the quantitative analysis of data, ICHPS offers:

- Invited and contributed sessions
- Workshops intended to provide research training and career development in the methods, resources, and applications at the forefront of contemporary health policy research

See www.amstat.org/meetings/ichps/2011 for details.

Organized by the Health Policy Statistics Section of the ASA



Nilanjan Chatterjee

received the 2010 Spiegelman Award during the American Public Health Association (APHA) meeting in Denver, Colorado, last November. This award, named after statistician and demographer Mortimer Spiegelman, is given annually by the statistics section of APHA to recognize a statistician under age 40 who has made outstanding contributions to public health.

Chatterjee is chief of the biostatistics branch of the Division of Cancer Epidemiology and Genetics (DCEG) at the National Cancer Institute. He earned his bachelor's and master's degrees in statistics from the Indian Statistical Institute in Kolkata, India, and his PhD in statistics from the University of Washington. He is internationally known for his leadership

on the development of innovative and rigorous statistical methods for analyses of modern epidemiologic studies. He has coauthored more than 150 peer-reviewed publications and often led methodological publications in top-rated journals of both statistics and genetics. A Fellow of the American Statistical Association, he has received numerous awards, including the Z.W. Birnbaum Award, NIH Merit Award, and DCEG Outstanding Mentoring Award.

The U.S. Army Wilks Award for 2010 was recently awarded to **Art Fries** of the Institute for Defense Analyses (IDA). The award was established in 1981 to commemorate the career of Samuel S. Wilks and his service to the Army. It is given periodically to a "deserving individual



Arthur (Art) Fries

who has made a substantial contribution to statistical methodology and application, impacting the practice of statistics in the Army through personal research in statistics or application of statistics in the solution of Army problems." Fries is the twenty-fifth recipient, chosen for his work in making, illustrating, and communicating the case that statistical ideas and methods are important in addressing defense and national security issues. This year's presentation was made at the U.S. Army Conference on Applied Statistics.

Fries earned his PhD in statistics from the University of Wisconsin in 1982. Research publications from that period were in minimum aberration designs and the inverse Gaussian distribution.

Fries joined IDA in 1982 and has worked on a range of important defense and national security issues and projects. Much of his career has focused on supporting the director of operational test and evaluation, an office within the Department of Defense (DoD) that reports directly to the secretary of defense and Congress with its independent evaluation of the operational effectiveness and suitability of major defense systems. Fries has been intimately



**JOHNS HOPKINS
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**Statistical Methods for
Very Large Datasets Conference**

Johns Hopkins University
Baltimore, Maryland
June 1-3, 2011



The Department of Biostatistics at the Johns Hopkins Bloomberg School of Public Health organizes a 3-day conference on the Statistical and Computational Analysis of Very Large Data Sets. The conference is scheduled from June 1-3, 2011 and will be hosted in beautiful, downtown Baltimore, Maryland, USA at the InterContinental Harbor Court Hotel. The conference has a one-track session for invited presentations featuring a distinguished panel of experts. It also has a high profile session for contributed poster presentations for which abstracts are currently being solicited. A panel discussion will attempt to define what large data sets are, anticipate new challenges, and identify possible solutions. Women, minorities and persons with disabilities are especially encouraged to apply and participate in the Conference. In particular travel awards will be designated for women, racial/ethnic minorities and persons with disabilities, and other individuals who have been traditionally underrepresented in science to promote representation from these groups in accordance with their representation in Biostatistics. Poster submission: send a title and a one page poster abstract to Jeff Leek (jleek@jhsph.edu). Other inquiries: contact Ciprian Crainiceanu (ccrainic@jhsph.edu) or Risha Zuckerman (rzuckerm@jhsph.edu). Early bird registration fees (before 02/01/2011): \$170 for general registration and \$50 for students. For more information visit the conference website: <http://www.regonline.com/builder/site/Default.aspx?eventid=757633>

involved in designing test plans, monitoring test conduct, analyzing the resulting data, and communicating the findings for a large number of U.S. Army and other DoD systems. He also has been active professionally through publications, conference presentations, and participation in statistical societies. Areas of research include reliability growth, model validation, and Bayesian methods for sparse data situations.

ASA member and Boston Public Schools teacher, **Sharon Hessney**, recently won the Presidential Award for Excellence in Mathematics and Science Teaching.

The award is given annually to the best pre-college-level science and mathematics teachers in the United States. The winners are selected by a panel of scientists, mathematicians, and educators following an initial selection process done at the state level.

Hessney received \$10,000 from the National Science Foundation to be used at her discretion. She also received an expenses-paid trip to Washington, DC, for an awards ceremony and several days of educational and celebratory events, including visits with members of Congress and science agency leaders.

The Wildlife Society's sixty-first Aldo Leopold Memorial Award was recently presented to U.S. Geological Survey (USGS) senior scientist and ASA member **Douglas H. Johnson** during the society's annual conference in Snowbird, Utah. The award recognizes Johnson's "distinguished service to wildlife conservation" for a career that has spanned more than 40 years with the U.S. Department of the Interior.

The Leopold award honors the legacy of Aldo Leopold (1887–1948), who is widely

considered to be the father of modern wildlife management and conservation in North America. It is the highest honor bestowed by The Wildlife Society and is considered the highest recognition for a professional wildlife ecologist.

Johnson's career embodies the essence of Leopold's professional contributions as a scientist. He is nationally and internationally recognized as a leader in wildlife research and management and described by supporters and award nominators as one of the "true visionaries in the wildlife profession" during the last four decades.


Johnson earned his bachelor's degree in mathematics and psychology from the University of Minnesota, master's degree in statistics from the University of Wisconsin-Madison, and doctorate in zoology from North Dakota State University.

In 1970, Johnson began his career as a statistician at the USGS Northern Prairie

Wildlife Research Center, where he worked for 35 years. Since 2005, he has been stationed at Northern Prairie's field office in Saint Paul, Minnesota.

Johnson's ongoing research includes statistical and biological issues, and he has been a pioneer in using modeling and statistics to understand complex wildlife problems and identify pertinent information needs. His expertise includes ecology, conservation, habitat management, statistical modeling and theory, mathematics, inventory and monitoring, population dynamics, taxonomy, and agricultural programs. Johnson has authored or coauthored several hundred presentations on these and other subjects at scientific meetings, workshops, seminars, and lectures and has published more than 185 papers in peer-reviewed national and international scientific journals, government scientific report series, and conference proceedings and transactions. ■

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Obituaries

Herman P. Friedman

Herman P. Friedman, a longtime member of the American Statistical Association, died on October 17, 2010, in New York City. Friedman is survived by his wife, Judith D. Goldberg, also a longtime member and Fellow of the ASA.

Friedman was born in New York City. He graduated from Brooklyn Technical High School and earned his bachelor's and master's degrees in mathematics from Brooklyn College. He studied statistics at the New York University Courant Institute of Mathematical Sciences with Allan Birnbaum and received an MPhil in statistics from Yale University, where he worked with John Hartigan.

Near the end of the Korean War, Friedman was drafted into the U.S. Army. He taught and then joined the Scientific and Professional Program as a mathematician in the Ballistic Research Laboratory until his discharge as a sergeant in the reserves.

After his discharge, Friedman held positions of increasing responsibility while attending NYU and Yale. His first position was as a mathematician for Project Cyclone at Reeves Instruments Corp. Subsequently, he assumed roles as a senior and principal mathematician at the System Development Corp. and Bulova Research and Development.

In 1963, Friedman joined IBM, where he spent most of his career—more than 26 years. It was during those years that he pioneered the development of methods and software for cluster analysis. As a senior institute staff member of the IBM Systems Research Institute, and then institute consultant at Systems Research Education, he taught courses in advanced methods of data analysis and systems evaluation, continued his research, and consulted throughout IBM.

After early retirement from IBM, Friedman founded Statistical Science and Technology Associates, Inc., and was visiting professor and mentor in the psychometrics program at Fordham University Graduate School of Psychology.

Friedman published on different topics, ranging from pattern recognition to classification and data mining. He also gave numerous lectures. He was president of the Classification Society of North America (1992–1993); a Fellow of the New York Academy of Science and chair of its Section on Computers and Information Science; a member of Pi Mu Epsilon, Sigma Xi Yale Chapter; and a National ACM Lecturer. Friedman also served as a member of the ASA National Council, a member of

the ASA Board of Directors, and a president of the ASA New York Chapter.

Jagdish N. Srivastava

Jagdish N. Srivastava, a professor emeritus of statistics at Colorado State University (CSU), Fort Collins, passed away November 13, 2010.

He will be remembered for his leadership in the statistics profession; his thought-provoking questions at professional meetings and conferences; and his pioneering research contributions in design of experiments, multivariate analysis, survey sampling, reliability, coding theory, and combinatorial theory.

The 1973 conference Statistical Design and Analysis of Experiments and Linear Models, organized by Srivastava, started a new era of statistical design by bringing together leaders from different areas of statistics and demonstrating that both “good” design and “efficient” inference are fundamental for extracting the pertinent information from data collected for scientific investigations. With this same spirit, Srivastava founded the *Journal of Statistical Planning and Inference (JSPI)* in 1975. During this period, he also introduced “search linear models and search designs,” his groundbreaking research.

In design theory, he developed the mathematical theory of confounding for asymmetrical factorial experiments and optimum balanced designs for fractional factorial experiments, introducing balanced arrays and multidimensional partially balanced association schemes. In multivariate analysis, Srivastava worked on MANOVA with complete and incomplete data in estimation, hypothesis testing, classification, and meta-analysis.

In reliability theory, he introduced self-relocating designs for comparative experiments. In survey sampling, Srivastava introduced a general class of estimators with almost all the well-known estimators as the special cases. In coding theory, he introduced “Srivastava code,” a class of parameterized error-correcting codes.

Srivastava studied quantum mechanics and mathematical logic. He slowly turned toward spirituality and studied the great religions of the world, which led him to obtain his 1991 joint appointment in the philosophy department of CSU.

Srivastava was a Fellow of the ASA and past president of the International Indian Statistical Association.

To view obituaries in its entirety, visit <http://magazine.amstat.org>.

sectionnews

Biometrics

The Biometrics Section will sponsor several invited sessions at JSM 2011 in Miami, Florida, including Classification in the Real World: The Development of Practical Predictions from High-Dimensional Markers, New Advances in Censored Data Analysis, Statistical Methods for Risk Prediction Using High-Throughput Genomic Data, Recent Advances in Statistical Genomics, Innovative Applications of Non- or Semiparametric Methods in the Fields of Biology and Medicine, and New Developments in Sufficient Dimension Reduction. The 2011 JSM Biometrics Section program chair, Tianxi Cai, is collecting proposals for topic-contributed sessions. If you are interested in organizing such a session, contact her at tcai@hsph.harvard.edu. Abstract submission opened December 1, 2010, for contributed and topic-contributed papers.

The section also is seeking applications for the 2011 David P. Byar Young Investigator Award. For more information, visit www.bio.ri.ccf.org/Biometrics.

For detailed information about the section's activities, visit the section news department online at <http://magazine.amstat.org/?cat=17>.

Statistics and the Environment

The ASA Section on Statistics and the Environment (ENVR) welcomes new members and encourages anyone interested in environmental problems to join.

ENVR also is seeking nominations for their Distinguished Achievement Award, which is given to a member in recognition of outstanding contributions to the development of methods, issues, concepts, applications, and initiatives of environmental statistics. Successful nominees will receive their awards at the ENVR business meeting and reception during the Joint Statistical Meetings in Miami Beach, Florida. Nominations must be received by March 31.

For details, visit the section news department online at <http://magazine.amstat.org/?cat=17>.

Quality and Productivity

J. D. Williams, 2011 chair of the Quality and Productivity Section, looks forward to 2011 activities, including awarding the Mary G. and Joseph Natrella Scholarship and attending the annual Fall Technical Conference, to take place in Kansas City, Missouri, October 13–14. Also, the section will offer up to five travel awards of \$400 for students enrolled in a graduate program with a concentration in applied statistics and/or quality management. For more information about the section's upcoming events, visit the section news department online at <http://magazine.amstat.org/?cat=17>.

Social Statistics

John Thompson reflects the excitement of beginning his responsibilities as the 2011 chair of the section and hopes to represent the membership in addressing its issues and concerns. He welcomes suggestions or thoughts at Thompson-John@norc.org. To view his statement to the section, visit the section news department online at <http://magazine.amstat.org/?cat=17>.

Physical and Engineering Sciences

Russ Lenth, section chair, thanks members for trusting him to serve and addresses several key themes that inspired the year, including passion, nouns and verbs, and making a difference. To read Lenth's year in review, visit <http://magazine.amstat.org/?cat=17>.

To view section news in its entirety, visit <http://magazine.amstat.org>.

chapternews

Princeton-Trenton

The ASA's Princeton-Trenton Chapter held its Career Day at Rutgers University Busch Campus on November 20, 2010. Thirty-two students from the local high schools, colleges, universities, and graduate schools registered. For details and photos, visit the chapter news department online at <http://magazine.amstat.org/?cat=324>.

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.

Simply Superior

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.

CART generates a clear, easy-to-understand classification and regression tree that analyzes large, complex databases, discovering patterns and relationships.

TreeNet is the most powerful implementation of stochastic gradient boosting. TreeNet accounts for the majority of Salford's modeling competition awards.

MARS is ideal for users who prefer results in a form similar to traditional regression while capturing essential nonlinearities and interactions.

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

...and look for our soon-to-be-released advanced data mining technologies including TreeNet ICL™, PathSeeker™, ISLE™, PRIM™ and Rulefit™.

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

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2011

February

25–26—SAMSII Two-Day Undergraduate Workshop, Research Triangle Park, North Carolina

For details, visit www.samsi.info/workshop/two-day-undergraduate-workshop-february-25-26-2011 or contact Jamie Nunnally, P.O. Box 14006, Research Triangle Park, NC 27709; (919) 685-9350; admin@samsi.info.

April

15–16—25th New England Statistics Symposium, Storrs, Connecticut

For more information, visit www.stat.uconn.edu/hess11 or contact Ming-Hui Chen, 215 Glenbrook Road, Unit 4120, Storrs, CT 06269; (860) 486-6984; mhchen@stat.uconn.edu.

May

9–12—The Fourth Lehmann Symposium, Houston, Texas

For more information, visit www.stat.rice.edu/~jrojo/4th-Lehmann or contact Javier Rojo, Statistics Dept., 6100 Main St., Houston, TX 77005; (713) 348-2797; jrojo@rice.edu.

19–21—GDRR 2011 - Second Symposium on Games and Decisions in Reliability and Risk, Belgirate (VB), Lake Maggiore, Italy

For details, visit www.mi.imati.cnr.it/conferences/gdr11.html or contact Fabrizio Ruggeri, via Bassini 15, Milano, International 20133, Italy; +39 0223699532; fabrizio@mi.imati.cnr.it.

June

5–10—Workshop on Statistical Challenges and Biomedical Applications of Deep Sequencing Data, Ascona, Switzerland

For more information, visit www.cbge.ethz.ch/news/ascona2011 or contact Niko Beerenwinkel,

Mattenstrasse 26, Basel, International 4058, Switzerland; ascona2011@bsse.ethz.ch.

20–24—SAMSII/Sandia Summer School on Uncertainty Quantification, Albuquerque, New Mexico

For details, visit www.samsi.info/workshop/samsisandia-summer-school-uncertainty-quantification or contact Jamie Nunnally, P.O. Box 14006, Research Triangle Park, NC 27709; (919) 685-9350; admin@samsi.info.

20–24—ABS11 - 2011 Applied Bayesian Statistics School Hierarchical Modeling for

The following events are the latest additions to the ASA's online calendar of events. Announcements are accepted from education and not-for-profit organizations only. To view the complete list of statistics meetings and workshops, visit www.amstat.org/dateline.

Environmental Processes, Bolzano/Bozen, Italy

For details, visit www.mi.imati.cnr.it/conferences/abs11.html or contact Fabrizio Ruggeri, via Bassini 15, Milano, International 20133, Italy; +39 0223699532; fabrizio@mi.imati.cnr.it. ■

UPenn Conference Set for April

The University of Pennsylvania Annual Conference on Statistical Issues in Clinical Trials will take place April 13 at the Biomedical Research Building Auditorium on the campus of the UPenn School of Medicine. The topic is emerging statistical issues in the conduct and monitoring of clinical trials.

The conference will bring together leading scientists to make presentations and lead discussions on state-of-the-art and developing methods, including the following:

Janet Wittes, Statistics Collaborative, Inc.
Estimation of effect size in trials stopped early

Barbara Tilley, University of Texas
Sample size estimation incorporating disease progression

Xiaoxi Zhang, Pfizer
Predicting accrual in ongoing trials

Steve Kimmel
New incentive approaches for adherence

Andrea Troxel, University of Pennsylvania, and Marc Buyse, IDDI
Efficient source data verifications in cancer trials

Bryan Shepherd, Vanderbilt University
Accounting in analysis for data errors discovered through sampling

Ralph D'Agostino, Boston University
Multiple endpoints: correlations and required adjustments

Chris Coffey, University of Iowa
Hurdles and future work in adaptive designs

There also will be two panel discussions. The first will include Steve George of Duke University, George Williams of Amgen, Inc., and Kay Dickersin of The Johns Hopkins University. The second will include Gordon Lan of Johnson & Johnson, Jim Neaton of the University of Minnesota, and Stacy Lindborg of Eli Lilly.

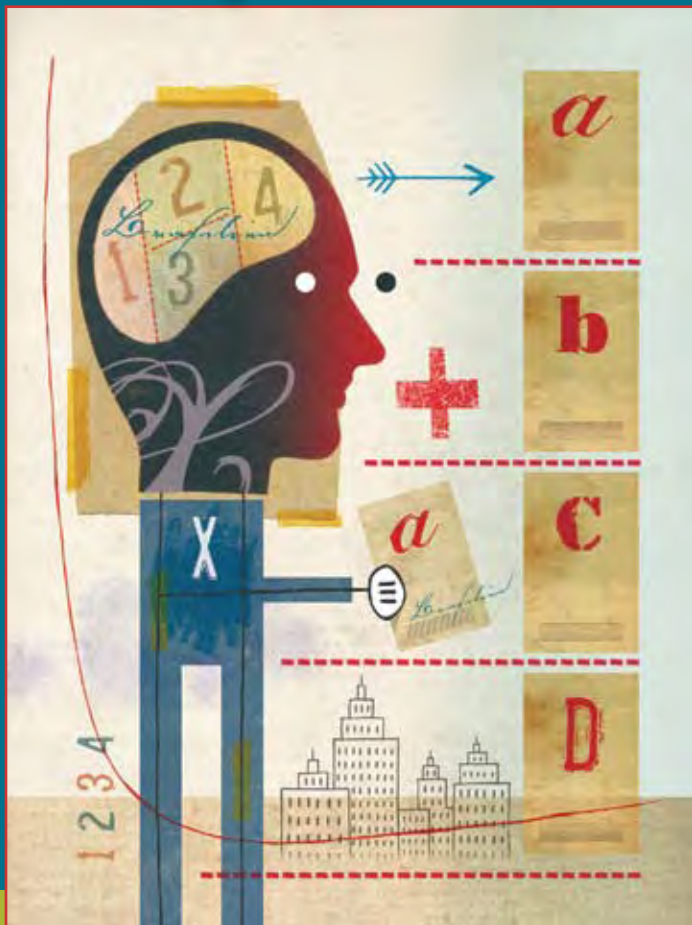
The conference hotels include The Hilton Inn at Penn and the Sheraton at University City, both located within easy walking distance. Registration opens January 17 and is limited to 200 participants. The deadline to register is April 1 or when the conference sells out. The conference fee (includes breakfast, lunch, breaks) is \$180 for those in industry and \$110 for those in academia and government.

For more information, contact Donna Zikowitz at zikowitz@upenn.edu or (215) 573-2728.



Moody's Mega Math Challenge

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Challenge weekend:
March 5-6, 2011

Real-world applied math-modeling competition open to high school juniors and seniors from Maine through Florida.

- Form a team of students with one teacher-coach.
- Submit a solution to the realistic modeling problem.
- Participation is FREE— no entrance or participation fees.

M3Challenge.siam.org

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High schools located in the following states and district are eligible to participate in the M³ Challenge: Connecticut, Delaware, Florida, Georgia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia, Washington, D.C., and West Virginia.



The National Association of Secondary School Principals has placed this program on the NASSP National Advisory List of Student Contests and Activities for 2010-2011.

Arizona

■ EPIC Research and Diagnostics, Inc. is an early-stage medical device company in Scottsdale, Arizona. We are seeking a full-time biostatistician proficient in data analysis, data manipulation, study design, and report writing to analyze, interpret, and publish our artificial intelligence outputs. Excellent communication skills required. If you are interested in this position, please contact megan@epicdiagnostics.com. Please, no recruiters. AA/EOE.

■ Northern Arizona University invites applications for a tenure-track assistant professor in statistics available August 2011. Minimum qualifications include earned doctorate in statistics or biostatistics by August 1, 2011, and teaching experience at the college level. Review of applications began December 24, 2010, and will continue until position is filled or closed. See www.nau.edu/hr for specific application instructions. Northern Arizona University is an AA/EEO/MWDV employer.

California

■ Applications and nominations are invited for the tenure-track position of assistant professor of statistics at the University of California, Riverside. The position is effective July 1, 2011. The position targets candidates with high-quality research and strong teaching records and general training in statistics or biostatistics. Qualified candidates must have a PhD in statistics or biostatistics or a similar statistically oriented discipline. Please visit <http://statistics.ucr.edu/employment.html>. AA/EOE.

■ Market Risk Analyst II, exp. req., to work in San Jose, CA. Send resume to J. Poldruhi, KeyBank National Association, 127 Public Square, 9th fl., Mailcode OH-01-27-0906, Cleveland, OH 44114. Must ref job code 99980858. EOE.

■ The department of mathematics at CSUF invites applications in statistics for tenure-track positions for fall 2011. Seeking a broadly based individual with a strong commitment to excellence in teaching and research; will be expected to develop and/or maintain a productive research program and teach undergraduate- and master's-level courses. Full ad

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.

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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.

www.westat.com

EOE

Survey Sampling Statistician

Westat is an employee-owned corporation headquartered in the suburbs of Washington, DC (Rockville, Maryland). We provide statistical consulting and survey research to the agencies of the U.S. Government and to a broad range of business and institutional clients. With a strong technical and managerial staff and a long record of quality research, Westat has become one of the leading survey research and statistical consulting organizations in the United States.

Our company was founded in 1961 by three statisticians. The current staff of more than 2,000 includes over 60 statisticians, as well as research, technical, and administrative staff. In addition, our professional staff is supported by data collection and processing personnel situated locally and in field sites around the country. The work atmosphere is open, progressive, and highly conducive to professional growth.

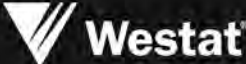
Our statistical efforts continue to expand in areas such as the environment, energy, health, education, and human resources. Westat statisticians are actively involved in teaching graduate-level courses in statistical methods and survey methodology in collaborative arrangements with area colleges and universities.

We are currently recruiting for the following statistical position:

Survey Sampling Statistician
Job Code DRM/3233BR

Position available for a survey sampling statistician with 3 or more years of relevant experience. Responsibilities include sample design and selection, power calculations, frames development, weighting including nonresponse adjustment and benchmarking, imputation, and variance estimation. Must have a master's or doctoral degree in statistics and have very good writing skills. Coursework in sample survey design is highly desirable.

Westat offers excellent growth opportunities and an outstanding benefits package including life and health insurance, an Employee Stock Ownership Plan (ESOP), a 401(k) plan, flexible spending accounts, professional development, and tuition assistance. To apply, go to www.westat.com/jobs and enter **3233BR** in the space provided.



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Senior Expert Statistical Methodologist in Clinical Development – in the Novartis Statistical Methodology Group in East Hanover, NJ/USA.

The members of the group collaborate with a staff of around 80 biostatisticians locally and over 170 worldwide engaged in varied Clinical Research and Development activities.

Your role:

- Acting as an expert consultant in statistical methodology to ensure that effective state-of-the-art methods are used in support of clinical projects, by providing expertise and guidance to biostatisticians and through direct participation in clinical projects.
- Identifying and evaluating opportunities to improve and harmonize methodological procedures and technology within Biostatistics; conducting research in applied statistical methods as appropriate; and introducing innovative trial designs and analyses.
- Supporting decision making throughout a drug development program.
- Initiating and leading global clinical innovation projects; proactively fostering the development of cutting-edge statistical methodology in support of early and full clinical development.
- Engaging in teaching and training activities for the Biostatistics staff.

Your qualifications:

- PhD in Statistics; outstanding knowledge in an area of applied statistics and experience in clinical/medical statistics and its application in clinical trials.
- A demonstrated 10 year track record of statistical research and recent record of high-quality publications in relevant areas of pharmaceutical statistics.
- Proven skills in developing and implementing novel methods and innovative strategies in drug development projects.
- Good knowledge of the drug development process and regulatory guidelines.
- Good knowledge of statistical programming languages and techniques (R, SAS, etc.)

An applicant may have either a predominantly academic or industry background; should be an innovative, analytical, and interdisciplinary thinker; have project management skills; be an effective team-worker and communicator and possess good business ethics.

To apply, please view this position with the job ID # 73989BR at our career website www.novartis.com/careers.





Department Chair Department of Mathematics and Statistics

EASTERN KENTUCKY UNIVERSITY

The Department of Mathematics and Statistics at Eastern Kentucky University invites applications for the position of Chair of the Department starting July 1, 2011. The Chair is expected to promote and maintain high standards for teaching, scholarly activity, and service to the department, the College of Arts and Sciences, the University, and the community at large. The Chair also directs the department's efforts toward regional stewardship. The Chair is an administrative position, although some teaching is required. Administrative duties include providing leadership in curriculum development to include distance learning, supporting and guiding scholarly activities, preparing budgets and annual reports, preparing teaching schedules (including those for the summer sessions and extended campus sites), overseeing student recruitment and retention, supervising the developmental mathematics program and student advising, supervising departmental staff, and representing the department at the college and university levels. The candidate is also expected to have a strong commitment to the department's growing mathematics education programs.

Required qualifications include a Ph.D. in Mathematics, Statistics, or Mathematics Education; the rank of Associate Professor or higher; and credentials sufficient for tenure. Other requirements include evidence of excellence in teaching, a record of research, and administrative experience.

Review of application materials will begin February 1, 2011, and continue until the position is filled. **Candidates must apply online at <http://jobs.eku.edu> (search requisition #0608618).** More information about the department is available on the employment site. Review of applications will begin immediately and continue until the position is filled.

Offers of employment are contingent upon satisfactory criminal background check and educational credential verification. Eastern Kentucky University is an EEO/AA institution that values diversity in its faculty, staff, and student body. In keeping with this commitment, the University welcomes applications from diverse candidates and candidates who support diversity.

details at www.mathjobs.org. California State University Fullerton is an AA/EOE.

Colorado

■ Assistant Professor. The Centers for American Indian and Alaska Native Health (CAIANH), University of Colorado Denver, is seeking a doctoral level biostatistician to direct a data team in the data management and statistical analysis of two multisite diabetes projects. For more information, please visit our website at www.ucdenver.edu/caianh. UCD is committed to diversity and equality in education and employment.

Connecticut

■ Boehringer Ingelheim seeks several summer interns, available in May/June for 12–14 weeks. Interns will build understanding of pharmaceutical industry by supporting clinical trial/project teams under the guidance of senior statisticians. This includes implementation of statistical analyses of clinical trial data/document writing/QC/literature review. Ideal candidates are PhD candidates within one year of completion, with excellent communication/problemsolving skills. Submit CV and cover letter to bethany.driskill@rightthinginc.com and dacheng.liu@boehringer-ingelheim.com. AA/EOE.

District of Columbia

■ PricewaterhouseCoopers' National Economic & Statistics (NES) practice provides a broad range of economic, statistical, and modeling services. Members of this practice conduct statistical analysis and modeling and data analytics with a focus on providing services to the federal, health care, retail and consumer, legal and financial services sectors. Please visit pwc.com/experiencedcareers for additional information and to apply. We are proud to be an Affirmative Action and Equal Opportunity Employer.

■ The National Institute of Statistical Sciences is a nonprofit research institute with headquarters in Research Triangle Park, NC, and offices in Washington DC. NISS has several positions opening, including: 3 postdoctoral fellows, 5 graduate student summer interns, 4 faculty summer consultants/mentors, 2 new



www.mssm.edu

PH.D. BIostatistician

The Mount Sinai School of Medicine located in New York, is seeking a Ph.D. Biostatistician at the Assistant Professor level to work with clinical research faculty which includes a Doctoral level Biostatistician, a Ph.D. and other computer personnel. Projects will include randomized clinical trials and observational studies using large amounts of data recorded continuously throughout surgical procedures. In addition to collaborative work, there will be an opportunity for independent methodological research. Appointment will be in the Department of Anesthesiology and the Department of Obstetrics, Gynecology, and Reproductive Science. You will work with experienced NIH-funded researchers and with the training of new clinical research faculty, both in the Departments of Anesthesiology and OB/GYN and other clinical departments.

Please send CV to: Margorie Fraticelli, Mount Sinai School of Medicine, One Gustave Levy Place, Box 1010, New York, NY 10029. Email: Margorie.Fraticelli@mountsinai.org. The Mount Sinai School of Medicine is an affirmative action, equal opportunity employer, geographically located in an ethnically diverse neighborhood. Diversity in the faculty, student body, and patient population is a hallmark of the institution.

researchers/junior faculty. For details and to apply, please visit: www.niss.org/jobs. AA/EOE.

Florida

■ Tenure-track, assistant professor in statistics starting Fall 2011. PhD in statistics. Interest in applied statistics, strong research potential, demonstrated excellence in teaching and command of English. Duties include teaching undergrad/grad, research and service. Send CV, transcripts, 3 ref. ltrs to: Recruitment Committee, Division of Statistics, Dept. of Mathematics and Statistics, Florida International University, Miami, FL 33199. Review starts 01/21/2011. <http://casgroup.fiu.edu/mathstatistics>. FIU is a member of the State University System of Florida and is an Equal Access Affirmative Action Employer. Women and minorities are encouraged to apply.

Georgia

■ Tenure-track/tenured assistant/associate/full professor in the department of biostatistics, Medical College of Georgia (Georgia Health Sciences University), Augusta, starting ASAP. Applicants must have PhD in statistics/biostatistics, strong research interests in methodology and biomedical applications, and strong ability in teaching and mentoring biostatistics doctoral students. Candidates at the senior level must have proven record of methodological and interdisciplinary research, and extramural funding support. Additional information: www.biostat.mcge.edu. M/F/V: EEO/AA/ADA.

Hawaii

■ The University of Hawaii, John A. Burns School of Medicine, Office of Public Health Studies, Department of Public Health Sciences is recruiting for an assistant or associate professor in biostatistics. For a full description of the position, please visit the Work at UH website at www.pers.hawaii.edu/wuh/search.aspx, search Position Number 0085852. For inquiries, contact Claudio Nigg, (808) 956-2862 or cnigg@hawaii.edu. University of Hawaii is an AA/EOE.

Faculty Position in Biostatistics Group Health Research Institute, Seattle, WA

The Group Health Research Institute (GHRI) is seeking candidates for a faculty position in Biostatistics at the Assistant, Associate, or Senior level. The biostatistician will have the opportunity to collaborate with behavioral science, epidemiological and health services researchers in a variety of areas including behavioral medicine, behavioral health, cancer, women's health, preventive care, complementary and alternative medicine, and other research areas relevant to improving health and health care. Successful candidates are expected to collaborate with GHRI investigators, as well as pursue independent research.

GHRI (www.grouphealthresearch.org/) is an internationally recognized academic research organization that primarily conducts federally funded clinical, epidemiologic, and health services research. The faculty includes 33 doctorate-level investigators (including 7 doctorate-level biostatisticians), 10 masters-level biostatisticians, and 12 masters/doctorate-level research associates. GHRI and surrounding research centers are part of a vibrant statistical community. Current areas of statistical research conducted at GHRI include biased sampling schemes, longitudinal and clustered data analysis, evaluation of diagnostic and screening tests, microsimulation modeling, spatial statistics, multistate disease modeling, latent class analysis, and methods for drug/vaccine safety and effectiveness studies. GHRI is affiliated with Group Health Cooperative (www.ghc.org), a non-profit, consumer-governed, integrated health care organization and an affirmative action/equal opportunity employer.

Applicants should have a PhD in Biostatistics, Statistics, or equivalent field, excellent oral and written communication skills, and a strong interest in active collaboration on public domain interdisciplinary research. Experience with mixed models, missing data, causal inference, and survival analysis are desired. Appointees will be encouraged to explore affiliation with the Department of Biostatistics at the University of Washington once established at GHRI.

Review of applications will continue until the position is filled. Submit letter of interest, CV, and three letters of recommendation at <http://www.ghc.org/careers/publicEmployment.jhtml> (job# 102181).



TENURE TRACK POSITION IN STATISTICS (LEVEL TO BE DETERMINED)

The Department of Statistics at Florida State University invites applications for a tenure earning position starting August 2011. The Statistics Department has a growing teaching and research program with over 60 graduate students. We presently offer M.S. and Ph.D. degrees in both Statistics and Biostatistics. Candidates with interests in all areas of statistics are invited to apply. A PhD. in Statistics, Biostatistics, or a related field is required. Candidates should have strong commitments to excellence in teaching and research.

Review of candidates will begin immediately and continue until the position is filled.

Please visit our web site at <http://stat.fsu.edu> for application information and for additional information about the Department of Statistics.

Florida State University is an Equal Opportunity/Access/Affirmative Action Employer.

ASSOCIATE PROFESSOR

Biostatistics and Director of the Statistical Lab

The University of Alabama invites applications for a tenure-track position at the Associate Professor level in the area of biostatistics to serve as Director of the Statistical Lab.

Qualified candidates must have a doctoral degree in biostatistics/statistics or a related field; an established record of biostatistical research; and a strong record of collaboration on extramurally funded research. This position will launch a campus wide consultative service, will have an emphasis on NIH/NSF grant productivity, and is an exciting opportunity for someone whose interests fit these goals.

Only online applications are accepted. Candidates selected for interview will be required to submit a disclosure and consent form authorizing a background investigation. Candidates must apply online at <https://facultyjobs.ua.edu> and include a curriculum vita and a list of five references with addresses, phone numbers and e-mails.

Applications will be reviewed immediately and will continue until the position is filled. The expected starting date of appointment is August 16, 2011. Salary is competitive. The complete advertisement may be viewed online.

The University of Alabama, founded in 1831, is the flagship University of a three campus system. The University is located in Tuscaloosa, a city of 100,000 that was named an All America City by the National Civic League.

The University of Alabama is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

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THE UNIVERSITY OF ALABAMA



Tenure-Track Open Rank Faculty Position in Biostatistics

The University of South Carolina's Arnold School of Public Health is seeking applicants for a tenure-track faculty position at any rank in Biostatistics in the Department of Epidemiology and Biostatistics, with the possibility for leading the Health Sciences Research Core. The Arnold School of Public Health has national prominence in epidemiology and biostatistics, with research funding from NIH, CDC, other federal and state agencies, private foundations, and industry. There is substantial collaborative research with other entities on and off campus, and we expect significant growth in the biostatistics faculty over the next several years.

The successful candidate is expected to have a strong record of publications in biostatistics, of teaching, and of biomedical collaboration. Desired areas of interest include, but are not limited to, design and analysis of clinical research, patient outcomes research, longitudinal and survival modeling, community-based studies, semi-parametric modeling, robust methods, latent variable modeling, and spatial biostatistics, within either a frequentist or Bayesian framework.

The successful candidate will have an interest in the application of statistical methodologies to the Health Sciences and is expected to develop and maintain an active research program and lead or participate in externally funded grants; teach biostatistics courses primarily to graduate students in biostatistics, epidemiology, and other fields; chair and serve on master's and doctoral thesis committees for students in biostatistics and other departments in the Arnold School of Public Health; and participate in a mentoring program in the Division of Biostatistics.

Additional information about the school and department can be found at www.sph.sc.edu/epid_bios. Applications will be considered until the position is filled. Applicants should send a cover letter stating career goals and the relevance of their training and experience to described needs, a current CV, and names and contact information for three references to:

Biostatistics Search Committee, Arnold School of Public Health, 800 Sumter Street, University of South Carolina, Columbia, SC 29208 or e-mail to: biosrch@mailbox.sc.edu

The University of South Carolina is an affirmative action/equal opportunity institution.
Women and minorities are encouraged to apply.

Illinois

■ Associate professor/professor in biostatistics, tenured/tenure-track position in the department of preventive medicine, Northwestern University. Qualified applicant is expected to conduct biostatistical research and to develop and lead data coordinating centers for multicenter epidemiologic studies and/or clinical trials in the area of cardiovascular disease. To apply, submit CV and 3 reference letters to Kiang Liu, kiangliu@northwestern.edu, or electronically to Marie Lee, m-lee@northwestern.edu. Northwestern University is an AA/EOE.

Kentucky

■ The University of Kentucky Department of Statistics seeks applications for two lecturer positions beginning August 2011. The normal teaching load for these lecturer positions will be six courses per academic year. Send application letter, vita, teaching statement and four letters of reference to Mark Gebert, Chair, Lecturer Search Committee, Department of Statistics, University of Kentucky, Lexington, KY 40506-0027. (859) 257-6115, Mark.Gebert@uky.edu. University of Kentucky is an AA/EOE.

■ University of Kentucky. Assistant professor, tenure track, biostatistics (public health), beginning 08/11. Potential for demonstrated excellence in methodological and collaborative research and in teaching public health professional students and biostatistics students. Selection begins 2/1/11 and continues until filled. CV, three reference letters to Richard Kryscio, 230 Sanders Brown Center on Aging, 800 South Limestone St., University of Kentucky, Lexington, KY 40536-0236. kryscio@email.uky.edu. The University of Kentucky is an affirmative action, equal opportunity employer.

Massachusetts

■ Postdoctoral fellowships are available in the department of biostatistics at the Harvard School of Public Health. Fellows will engage in methodological research and participate in ongoing collaborative projects. Please view details on specific positions at our website, www.hsph.harvard.edu/departments/biostatistics/fellowship-opportunities. Applications from minority and female candidates are especially encouraged. Harvard University is an AA/EOE.

Michigan

■ University of Michigan Biostatistics Department and Cancer Center has a research-track faculty position beginning Fall 2011. Candidates will be expected to undertake methodology research and collaborate in cancer research. Information available: www.sph.umich.edu/biostat. Contact chair of Cancer Biostatistics Search Committee, Dept. of Biostatistics, 1415 Washington Heights, Ann Arbor, MI 48109-2029. Email aprileh@umich.edu. EOE/AA.

New Hampshire

■ The Dartmouth Institute for Health Policy & Clinical Practice in Hanover, New Hampshire, seeks a statistician in health services research and epidemiology. Doctorate in statistics or related field with strong methodological and collaborative skills required. Depending on qualifications and experience, appointment will be at assistant, associate, or full professor. Address cover letter to Julie Bynum, MD, MPH. Submit cover letter and CV to

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<http://www.norc.org/careers>

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

Assistant/Associate Professor of Biostatistics Harvard School of Public Health and the Dana-Farber Cancer Institute

The Department of Biostatistics at the Harvard School of Public Health (HSPH) and the Dana-Farber Cancer Institute (DFCI) seek outstanding candidates for two positions of assistant or associate professor. These are tenure-ladder positions, with the academic rank to be determined in accordance with the successful candidates' experience and productivity.

One position is based in the Department of Biostatistics at the HSPH <http://www.hsph.harvard.edu/departments/biostatistics/> and is affiliated with the HSPH Program in Quantitative Genomics <http://www.hsph.harvard.edu/pgg>. We seek strong methodologists with an interest in statistical genetics and genomics, and their applications in health sciences.

Another position is based in the Department of Biostatistics and Computational Biology at the DFCI <http://bcf.dfc.harvard.edu>. The faculty member is expected to become a leader in statistical sciences as they apply to cancer research.

Responsibilities will include methodological and collaborative research, teaching and supervision of graduate students. Candidates must have a strong doctoral record or degree in biostatistics, statistics, computer science, or allied fields.

Please send a letter of application, including a statement of current and future research interests, curriculum vitae, sample publications, and the names of four referees to the following address. Applicants should ask their four referees to write independently to this address. The electronic submission of application documents to the email below is welcome. Consideration of an application will begin after the application package is complete; the deadline is January 31. It is not guaranteed that applications received after this date will be considered.

Chair, Search Committee for Assistant/Associate Professors of Biostatistics
c/o Vickie Beaulieu, Department of Biostatistics
Harvard School of Public Health
655 Huntington Avenue, 4th Floor, Boston, MA 02115
Email: biostatjsearch@hsph.harvard.edu

Harvard University and the Dana-Farber Cancer Institute are committed to increasing representation of women and minority members among their faculties and particularly encourage applications from such candidates.

NISS National Institute of Statistical Sciences

The Statistics Community Serving the Nation

The National Institute of Statistical Sciences is a nonprofit research institute with headquarters in Research Triangle Park, NC and offices in Washington DC. NISS conducts cross-disciplinary and statistical research spanning a wide scope: education, energy, chemistry, bio- and clinical research, agriculture, transportation, data quality, security and privacy. NISS constructs and evaluates statistical models, analyzes complex and/or massive data and develops new statistical methodology and theory.

Projects

NISS-NASS Collaboration to develop and evaluate statistical models for data from agricultural and economic surveys is initiating two new projects in statistical modeling and in evaluation and construction of indices. Research

Positions

- 3 Postdoctoral Fellows
- 5 Graduate Student Summer Interns
- 4 Faculty Summer Consultants/Mentors
- 2 New Researchers/Junior Faculty

teams will combine academic researchers with National Agricultural Statistics Service (NASS) staff to construct estimators and to develop new pricing indices. Expertise in statistical modeling, analysis of large data sets, and/or economic indices desirable.

Online Reading Comprehension Assessment team from UConn, Penn State and NISS is developing a new approach to testing reading for a 3-state study. NISS is constructing statistical designs for all phases of the project, analyzing the data and then using detail data to model the sequence of reading processes (Locate information, Evaluate it, Synthesize from multiple sources, Communicate interpretation). Expertise in statistical modeling, analysis of complex data sets essential; Markov models or psychometrics desirable.

Energy Micro Data Research Program includes two joint NISS-EIA projects. **US Citizenship required.** *Statistical Evaluation of Macroeconomic Models for Energy* project requires background in economics, econometrics, and knowledge of macroeconomic modeling. Microdata at the Energy Information Agency will be used to evaluate competing models. *Assessment of Energy Information Quality* project will consider both numerical and graphical methods for summarizing and representing energy data. Advanced data analysis and/or statistical graphics desirable.

Go to www.niss.org/jobs for more information and to apply.

The National Institute of Statistical Sciences is an equal opportunity employer. NISS seeks and welcomes applications from women and members of historically underrepresented groups.

Senior Faculty Position in Computational Statistics At Texas A&M University

As part of a recognition of the increasing importance in the modeling and computational sciences, the Department of Statistics at Texas A&M University (<http://www.stat.tamu.edu> <<http://www.stat.tamu.edu>>) is recruiting for a senior faculty position in computational statistics as broadly defined. This position is one of three new senior lines dedicated to computational science that were created as part of an initiative led by the Institute for Applied Mathematics and Computational Science (<http://iamcs.tamu.edu> <<http://iamcs.tamu.edu>>). Considerable startup funding is available.

Computational science has become inherently multidisciplinary. As a result, successful candidates for this position should be able to demonstrate a strong record of research accomplishments and leadership, both within the statistics discipline and in multidisciplinary initiatives. Documentation of such success should include a record of publication in both statistics and a multidisciplinary application area as well as examples of collaboration and program building. Special emphasis will be placed on computational methods involving hierarchical modeling, uncertainty quantification and systems biology.

Texas A&M is a university of approximately 50,000 students and 3,000 faculty members. The Department of Statistics (37 members) is one of the largest departments in the US and is listed among the Top 5 departments from public institutions in the most recent rankings of US News and World Report. Additional information can be obtained by contacting the search committee chair at searchcommittee@stat.tamu.edu.

Individuals who wish to be considered for this position should send a copy of their CV and a letter of interest to:

Recruiting Committee Chair
Computational Statistics Search Committee
Department of Statistics, 3143 TAMU
Texas A&M University, College Station TX 77843-3143

Electronic submissions will also be accepted and should be sent to: searchcommittee@stat.tamu.edu, with Computational Statistics in the Subject Line. Additional information and letters of reference will be solicited after a preliminary review. Review of the applicant pool will begin January 15, 2011. Start dates are flexible and the position will remain open until filled.

Texas A&M University is an Equal Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.

Kathy.Stroffolino@dartmouth.edu (subject: TD0209D). Dartmouth Medical School is an affirmative action/equal opportunity employer and strongly encourages women and minority candidates to apply.

New Jersey

■ Statistics research department, AT&T Labs, is hiring full-time researchers at all levels of experience. Applicants should have a PhD in statistics (or a related field) and must demonstrate excellence in research, knowledge of fundamental statistical theory, collaborative spirit, and strong communication skills. Preferred fields: data mining, statistical computing, forecasting, time series, spatial statistics, social networks, machine learning, and Bayesian analysis. Please visit www.research.att.com/areas/stat. Women and under-represented minorities are especially encouraged to apply. AT&T companies are Equal Opportunity Employers. All qualified candidates will receive full and fair consideration for employment.



EMORY ENDOWED ROLLINS ASSISTANT PROFESSOR POSITION DEPARTMENT OF BIostatISTICS AND BIOINFORMATICS ROLLINS SCHOOL OF PUBLIC HEALTH EMORY UNIVERSITY

The Department of Biostatistics and Bioinformatics at Emory University is recruiting outstanding candidates for an entry level endowed tenure-track assistant professor position. The Rollins Assistant Professor position is intended for individuals with exceptional potential for methodological research. The Rollins endowment provides substantial salary support for establishing a methodological research program during early years of the appointment. The successful candidate will also be expected to teach, conduct collaborative research, supervise graduate students, and obtain external grant funding for research development.

Collaborative opportunities exist within the Rollins School of Public Health departments of epidemiology, behavioral sciences and health education, health policy and management, environmental and occupational health and global health. Research opportunities also exist throughout the Woodruff Health Sciences Center including the School of Medicine, the Winship Cancer Institute, Yerkes Primate Center, the Vaccine Center, and the Center for AIDS Research as well as in the new Center for Comprehensive Informatics.

The department has 19 doctoral faculty and 9 masters level associate faculty members with primary appointments. Research interests of the faculty include methods for high-dimensional data such as imaging and large scale genomics data, survival analysis, frailty models, categorical data analysis, methods for longitudinal analysis with missing data, causal inference, Bayesian methods, estimating functions, and spatial statistics. The department participates in the Atlanta Clinical and Translational Research Institute, serves as the Data Coordinating Center for several NIH clinical trials, operates the Biostatistics Consulting Center, and houses the Center for Biomedical Imaging Statistics. The department offers a doctoral graduate program in biostatistics from the Laney Graduate School of Arts and Science and masters degrees in public health and public health informatics. A concentration in bioinformatics is available at the doctoral level.

The candidate must have a doctoral degree in biostatistics/statistics or a related field prior to being appointed to this position. To apply, a cover letter, a statement of research interests, a complete curriculum vitae, and three reference letters should be sent to:

Rollins Assistant Professor Search Committee, c/o Mary Abosi (mabosi@emory.edu)
Emory University, Department of Biostatistics and Bioinformatics, 1518 Clifton Rd., NE, Atlanta, GA 30322
<http://www.sph.emory.edu/hpbios.html>

Consideration of applications will begin immediately, and applications will be considered until positions are filled. The Rollins School of Public Health of Emory University is an equal opportunity/affirmative action employer. The department has a culturally diverse faculty and strongly encourages applications from women and minority candidates.

New Mexico

■ PhD Statisticians. The Los Alamos National Laboratory Statistical Sciences Group seeks excellent candidates entry level and above with PhD in statistics or equivalent combination of education and experience, knowledge of multiple areas of statistical sciences, strong statistical computing skills, experience developing statistical methodology in multidisciplinary collaborations, and interest in diverse applications. Requires top-level security clearance, which normally requires U.S. citizenship. Complete application requirements at www.stat.lanl.gov. AA/EOE.

New York

■ 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

■ The National Institute of Statistical Sciences is a nonprofit research institute with headquarters in Research Triangle Park, NC, and offices in Washington DC. NISS has several positions opening, including 3 postdoctoral fellows, 5 graduate student summer interns, 4 faculty summer consultants/mentors, 2 new researchers/junior faculty. For details and to apply, please visit www.niss.org/jobs. AA/EOE.

■ The department of biostatistical sciences, Wake Forest University School of Medicine in Winston-Salem, NC, invites applications for tenure-track faculty positions at all levels. A PhD in biostatistics, statistics, or a related field and excellent verbal and written communication skills are required. Duties include collaboration, statistical research, and teaching. Interested individuals should email a research interest statement, CV, and 3 letters of recommendation to dbsrecruit@wfuwmc.edu. AA/EOE.



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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.



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Facebook—Check out the ASA's page on Facebook to keep up with the latest deadlines, news, and activities and to share your tips and comments with colleagues worldwide.

Engage your fellow statisticians and enhance your mind, education, and career at **www.amstat.org**.

■ The department of biostatistical sciences, Wake Forest University Health Sciences (WFUHS), invites applications for a faculty position in statistical genetics (all levels). A PhD in biostatistics, statistics, or related field is required, with preferred experience analyzing sequence, epigenetic, or CNV data. Responsibilities include collaboration, statistical research, and teaching. Please send CV, research interest statement, and three recommendation letters: dbsrecruit@wfuhs.edu. AA/EOE.

Ohio

■ The Ohio State University Statistics Department: Assistant Director, SSES Program (www.stat.osu.edu/~sSES). This is a non-tenure-track, academic-year appointment as assistant director of the Program in Spatial Statistics and Environmental Statistics (SSES) in the department of statistics. Requires a PhD in statistics and a demonstrated interest in research administration, statistical research, and teaching. Applicants must apply at www.jobsatosu.com; search postings and enter job requisition #354290. To build a diverse work force, Ohio State encourages applications from minorities, veterans, women, and individuals with disabilities. Flexible work options available. EEO/AA Employer.

■ Case Western Reserve University - MetroHealth Medical Center, Center for Health Care Research and Policy & Department of Medicine seek Biostatistics and/or Epidemiology faculty (all levels). Position requires doctorate in biostatistics or epidemiology and strong communication skills. Research/teaching opportunities focus on public health, health services research, and study design supported by federal and foundation sources, including Cleveland's Clinical & Translational Science Collaborative. Please visit www.chrp.org/positions.asp. EOE.

Oklahoma

■ Biostatistics and Epidemiology Department, University of Oklahoma Health Sciences Center. Recruiting assistant professor of research in biostatistics. PhD biostatistics/related field, 24 months SAS programming and 12 months research experience (gained during education or post-training) required. Will accept MS degree plus 36-months



Chair, Department of Biostatistics

The UAB School of Public Health invites applications for the position of Chair of the Department of Biostatistics. The appointment will be at the level of Professor with tenure in the School of Public Health, assuming commensurate experience and accomplishments. The Department of Biostatistics currently has 28 full time faculty and two sections – the Section on Statistical Genetics and the Section on Research Methods and Clinical Trials. In addition to a large portfolio of extramural research funding in the areas of clinical trials and statistical genetics, the department supports educational programs for masters and doctoral degrees, as well as postdoctoral training.

The Chair will be expected to provide visionary leadership in a department that has had remarkable growth over the past decade. Specifically, the Chair will be responsible for the oversight of all departmental activities, including recruitment of faculty, support of the master's (MPH, MSPH, and MS) and PhD Programs, enhancing the research portfolio of the department, and working closely with the leadership of the Section on Statistical Genetics and the Section of Research Methods and Clinical Trials. The Chair will collaborate with other departmental chairs in the School of Public Health to develop and implement school-wide programs, initiatives, and policies. Finally, the Chair will identify opportunities for growth and collaboration with other units within the School of Public Health and within other schools (e.g. School of Medicine) at UAB.

A doctoral degree in Biostatistics or a closely related field is required. A record of scholarly academic accomplishments including research, teaching, and service, as well as a proven track record of obtaining extramural research support is essential. Please send CV and expression of interest to S. Louis Bridges, Jr., MD, PhD, Chair, Biostatistics Search Committee, c/o Anne Smith asmith@ms.soph.uab.edu (telephone 205-975-7742).

UAB is an equal opportunity/affirmative action employer. Women and ethnic minorities are particularly encouraged to apply.



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, 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 DeSoto Street; Pittsburgh, PA 15261.

The University of Pittsburgh is an equal opportunity, affirmative action employer. Women and minority candidates are especially encouraged to apply.

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- 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)

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post-training research experience. Duties include collaborative research design/analysis/reporting, graduate teaching, and service. Attach cover letter, CV, and contact information for references: Julie Stoner, PhD, (julie-stoner@ouhsc.edu). Equal Opportunity/Affirmative Action Employer. Women and minorities encouraged to apply.

Oregon

■ Portland State University Fariborz Maseeh Department of Mathematics and Statistics. Two assistant professor positions in statistics. Positions start September 16. All areas of statistics are considered. Duties include teaching and research in statistics, as well as submission of grant proposals. (For more information, see www.mth.pdx.edu/employment.) Please send inquiries or materials (PDF documents only) to the statistics search committee, stathire@pdx.edu. Portland State University is an Affirmative Action/Equal Opportunity Institution and welcomes applications from diverse candidates and candidates who support diversity.

The University of Texas Medical Branch, Sealy Center on Aging, is currently seeking a Biostatistician. Required area of expertise includes multilevel modeling, time series analysis, longitudinal data analysis, and at least two years of experience in management and analysis of health insurance claim data. Excellent communication and presentation skills are essential. Preference will be given to a candidate with expertise in SAS including SAS IML, and MARCO, and with experience of using ML wiN, HLM, or Winbug. Preferred requirements are a Ph.D. or Dr.PH in biostatistics. Academic rank will commensurate with experience.

Interested candidates should apply online at www.utmb.edu/jobs to Job ID #23156 <<http://www.utmb.edu/jobs%20to%20Job%20ID#23156>> and upload a current curriculum vitae, enter your salary requirements and then please list the names of three references.

The University of Texas Medical Branch at Galveston is an equal opportunity, affirmative action institution which proudly values diversity. Candidates of all backgrounds are encouraged to apply.



Mathematical Statistician
Department of Health and Human Services
Food and Drug Administration/Center for Biologics Evaluation & Research
Office of Biostatistics and Epidemiology

Mathematical Statistician

The Food and Drug Administration's Center for Biologics Evaluation and Research (CBER) Division of Biostatistics' Vaccine Evaluation Branch (VEB) is soliciting applications from statisticians with knowledge of biological applications. Several new positions are being established that will offer the opportunity for research and statistical collaboration in the development and evaluation of preventive vaccines. The candidate may apply their expertise in areas such as clinical trial design and analysis, pre-clinical studies, development of bioassays and/or assay validation.

CBER Mathematical Statisticians work in an environment dedicated to the public health and upholding the highest scientific standards in review and research involving new biological products. VEB Mathematical Statisticians are responsible for evaluating study designs and final results of clinical trials assessing new vaccines. They are also responsible for assessing proposed new design and analytical approaches, and for developing innovative approaches potentially better suited to a novel vaccine or related product. They collaborate with medical colleagues and expert laboratory scientists on the development of scientific and regulatory policy, and frequently have the opportunity to represent CBER in collaborations with outside groups. Good written and oral communication skills are essential. The successful candidate will interact extensively with other FDA scientists and reviewers, industry scientists, and scientists in other government agencies and in academia. This person will represent CBER at meetings and workshops focusing on methods and policies for design and evaluation of clinical trials or pre-clinical /laboratory studies.

Qualifications:

A degree that included 24 semester hours of mathematics and statistics, of which at least 12 semester hours were in mathematics and 6 semester hours were in statistics.

OR

A combination of education and experience: at least 24 semester hours of mathematics and statistics, including at least 12 hours in mathematics and 6 hours in statistics, plus appropriate experience or additional education.

Candidates may also be hired under Title 42. Title 42 209(g) Service Fellowship appointment: candidates must possess a Ph.D. or equivalent degree plus comparable post-doctoral health-related research/regulatory review experience.

Candidates for Civil Service or Commissioned Corps appointments must be U.S. Citizens. U.S. Citizens and non-U.S. Citizens may be eligible for service fellowship appointments.

Salary Range:

The salary range (GS-13) is \$89,033-\$115,742. Salary will be set commensurate with education and experience.

How to Apply:

Submit resume or curriculum vitae with cover letter by January 30, 2011 to:

Food and Drug Administration, CBER/Office of Biostatistics and Epidemiology

Attn: Brian Hively, 1401 Rockville Pike, HFM-210, Rockville, MD 20852, or send e-mail to brian.hively@fda.hhs.gov or fax to 301-827-5218. If you have any questions please call 301-827-3034.

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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.

Pennsylvania

■ The department of statistics at The Wharton School of the University of Pennsylvania is seeking candidates for a Postdoctoral Fellowship. This research fellowship provides full funding without any teaching requirements at a competitive salary for two years beginning in Summer 2011. Applications should be submitted via our online application system, for which a link can be found on our department website: <http://statistics.wharton.upenn.edu>. The University of Pennsylvania values diversity and seeks talented students, faculty, and staff from diverse backgrounds. The University of Pennsylvania is an equal opportunity, affirmative action employer. Women, minority candidates, veterans and individuals with disabilities are strongly encouraged to apply.

■ The statistics department at the University of Pittsburgh invites applications for a tenure-track assistant professor position starting September 2011, pending budgetary approval. Strong preference for research in computationally intensive methods, but any area of statistics will



EMORY UNIVERSITY ROLLINS SCHOOL OF PUBLIC HEALTH DEPARTMENT OF BIostatISTICS AND BIOINFORMATICS FACULTY POSITIONS AVAILABLE AT ALL LEVELS

As part of a directed expansion, the Department of Biostatistics and Bioinformatics is seeking to fill multiple tenured and tenure-track faculty openings at all levels (full, associate, and assistant professors). We are recruiting for faculty in all areas, including all omics areas, machine learning, clinical trials, Bayesian analysis, spatial statistics, and infectious disease modeling. We especially welcome applications from candidates with research programs focused on the development and application of quantitative methods for high-dimensional data analysis. For one position, preference will be given to individuals specializing in biomedical imaging research. Responsibilities associated with these positions include methodological and collaborative research, teaching, and the supervision of graduate students.

Collaborative opportunities exist within the Rollins School of Public Health departments of epidemiology, behavioral sciences and health education, health policy and management, environmental and occupational health and global health. Research opportunities also exist throughout Emory's Woodruff Health Sciences Center including the School of Medicine, the Winship Cancer Institute, Yerkes Primate Center, the Vaccine Center, and the Center for AIDS Research as well as in the new Center for Comprehensive Informatics.

The department currently has 19 doctoral faculty and 9 masters level associate faculty members with primary appointments. The department participates in the Atlanta Clinical and Translational Research Institute, serves as the Data Coordinating Center for several NIH clinical trials, and operates the Biostatistics Consulting Center. The department houses the Center for Biomedical Imaging Statistics with links to imaging research across the health sciences. The department offers a doctoral graduate program in biostatistics from the Laney Graduate School of Arts and Science and masters degrees in public health and public health informatics. A concentration in bioinformatics is available at the doctoral level.

Requirements: doctoral degree in biostatistics/statistics or a related field; strong record of or high potential for methodologic research; intent and ability for scientific collaborative research and graduate level teaching; excellent oral and written communication skills. Candidates for associate or full professor should have an established record of funded research.

Salary and rank commensurate with experience. A letter summarizing experience, a statement of research interests, a complete curriculum vitae, and three reference letters should be sent to:

Faculty Search Committee, c/o Mary Abosi (mabosi@emory.edu)
Emory University, Department of Biostatistics and Bioinformatics, 1518 Clifton Rd., NE, Atlanta, GA 30322
<http://www.sph.emory.edu/hpbios.html>

Consideration of applications will begin immediately, and applications will be considered until positions are filled. The Rollins School of Public Health of Emory University is an equal opportunity/affirmative action employer. The department has a culturally diverse faculty and strongly encourages applications from women and minority candidates.

be considered. Send CV, transcripts, 3 recommendation letters to Search Committee, Department of Statistics, 2717 Cathedral of Learning, University of Pittsburgh, Pittsburgh, PA 15260. The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer. Women and members of minority groups under-represented in academia are especially encouraged to apply.

■ Possible tenure-track, lecturer, visiting positions. Collegial environment emphasizing disciplinary and cross-disciplinary research and teaching. All areas of statistics welcome. Joint appointments possible with other units in the Pittsburgh area. See www.stat.cmu.edu (email: hiring@stat.cmu.edu). Send CV, research papers, relevant transcripts, and three recommendation letters to Faculty Search Committee, Statistics, Carnegie Mellon University, Pittsburgh, PA 15213. Application screening begins immediately, continues until positions closed. Women and minorities are encouraged to apply. AA/EOE.



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Frank E. Harrell, Jr., Ph.D.



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Friday, March 11, 8 a.m.-4 p.m.

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Course fee: \$600

Website: biostat.mc.vanderbilt.edu/rms

Registration:

Please email interest to
Audrey Carvajal
biostat@vanderbilt.edu

Vanderbilt University Department of Biostatistics



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Graduate Intern Program (*No Application Deadline*): Primarily for individuals being trained as statisticians and related professionals who have completed the first year of a master's or Ph.D. degree program.

- Collaborative research for the 12-week to 1-year period is conducted at the U.S. Census Bureau.
- Details: http://www.census.gov/hrd/www/jobs/stu_temp.html.

Dissertation Fellowship Program (*Application Deadline—February 28*): Primarily for doctoral candidates in statistics or related areas who propose for their dissertation to investigate research topics of primary interest to the U.S. Census Bureau.

- Research is conducted and completed at the selected fellow's university/institution.
- Details: www.census.gov/srd/www/DissertationFellowshipTopics.pdf or contact tommy.wright@census.gov.

Postdoctoral Research Program (*Application Deadline—January 31*): Primarily for statisticians and related professionals who have held their Ph.D. (or equivalent) no more than 6 years before the commencement of work as a postdoctoral researcher.

- Collaborative research for the 2-year appointment is conducted at the U.S. Census Bureau.
- Details: <http://www.census.gov/hrd/www/jobs/prp.html> or contact tommy.wright@census.gov.

ASA/NSF/Census Research Fellowship Program (*Application Deadline—December 10*): Primarily for statisticians and related professionals who have recognized research records and considerable expertise in their areas of proposed research.

- Collaborative research for the 6–12 month period is conducted at the U.S. Census Bureau.
- Details: www.census.gov/srd/www/fellweb.html or contact tommy.wright@census.gov.

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ASSISTANT PROFESSOR IN EPIDEMIOLOGY

The Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh invites applications for a full-time faculty position at the level of Assistant Professor as part of the Center for Aging and Population Health (CAPH) based in the Department of Epidemiology. The individual we seek will have a doctoral degree in statistics or biostatistics, or a related field, and training or experience in the epidemiology of aging or related field. All specialty areas will be considered, but longitudinal and survival analysis or epidemiological modeling of complex traits will be given high priority. The individual will have experience in study design, data analysis, proposal writing along with demonstrated potential for external funding and peer-reviewed publications. The successful candidate will have excellent communication skills. The individual will also be expected to take on doctoral students and develop or take over a course within the epidemiology of aging graduate education program. This position is not in the tenure stream. Salary and rank will be commensurate with experience. Applications will be reviewed until position is filled. Send letter of intent, curriculum vitae, and the names of three references to: Position #0128414, c/o D. Bushey, University of Pittsburgh, Graduate School of Public Health, Pittsburgh, PA 15261.

The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer.

Tennessee

■ Mathematics or Statistics: One tenure-track position. Assistant or associate professor, PhD in mathematics or statistics required. Department of mathematics and statistics, University of Tennessee at Martin. August 1, 2011. See www.utm.edu/math for announcement and application information. University of Tennessee at Martin is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA employer.

■ The University of Tennessee, College of Business Administration, Department of Statistics, Operations, and Management Science. Tenure-track assistant/associate/full professor in business analytics, beginning August 2011. Primary research interest in developing analytic tools relevant to business is expected; experience in applying analytics to real business problems desired. For full description of qualifications, program information, application procedures, and duties/responsibilities, visit <http://bus.utk.edu/soms/analytics/position.htm>. Apply electronically to



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VCU

Virginia Commonwealth University

TENURE-TRACK ASSISTANT PROFESSOR (Statistics)

The Department of Statistical Sciences & Operations Research within the College of Humanities and Sciences at Virginia Commonwealth University invites applications for at least one tenure-track Assistant Professor position in Statistics, pending funding, to begin August 16, 2011. Candidates must have a clear potential to secure external funding with research interests in any relevant focus, but preference will be given to those with interests in environmental or biological applications, homeland security, and engineering. Statistical methodology in time series, multivariate statistics, semi-parametric statistics, and simulation and stochastic processes are desired. Candidates must have demonstrated experience working in and fostering a diverse faculty, staff, and student environment or commitment to do so as a faculty member at VCU. Ph.D. in Statistics or a related field required, and must be completed by August 15, 2011. Incumbent will teach graduate and undergraduate courses in statistics, with possible collaborative teaching in related areas. Departmental service will be expected.

Send vita and three reference letters to: **Darcy P. Mays, Chair, Department of Statistical Sciences and Operations Research, 1015 Floyd Avenue, P.O. Box 843083, Richmond, Virginia 23284-3083.**

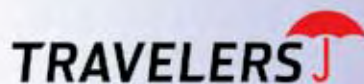
Position open until filled; review begins January 3, 2011.

Virginia Commonwealth University is an Equal Opportunity/Affirmative Action employer. Women, minorities and persons with disabilities are strongly encouraged to apply.


Robert Mee c/o bizanalyticsearch@utk.edu. The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution.

International

■ Tenure-track assistant professor position in the Dept. of ISOM, starting July 1, 2011. Excellence in research and teaching and PhD required by employment start date. The statistics group is also heavily involved in a new undergraduate degree program in risk management and business intelligence. Applicants with prior business school experience/interests in business-related statistical research are especially welcome. Submit CV and three references to isjob@ust.hk. The Hong Kong University of Science and Technology School of Business and Management is an Equal Opportunity Employer. ■



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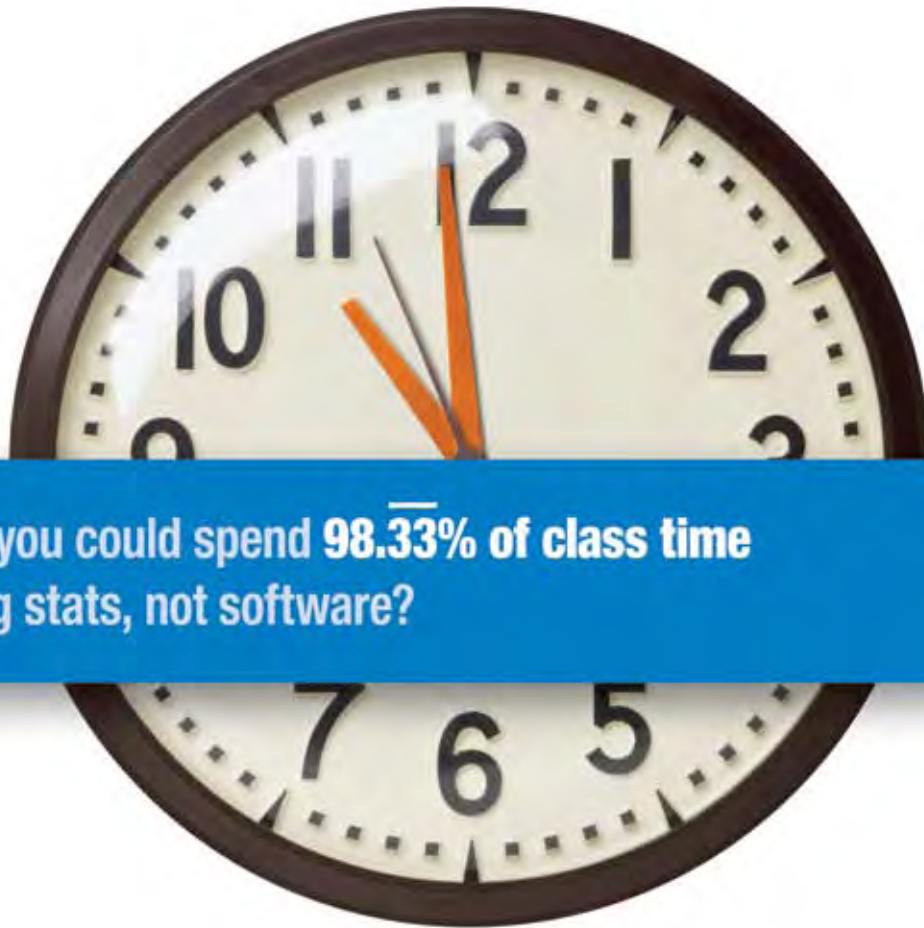
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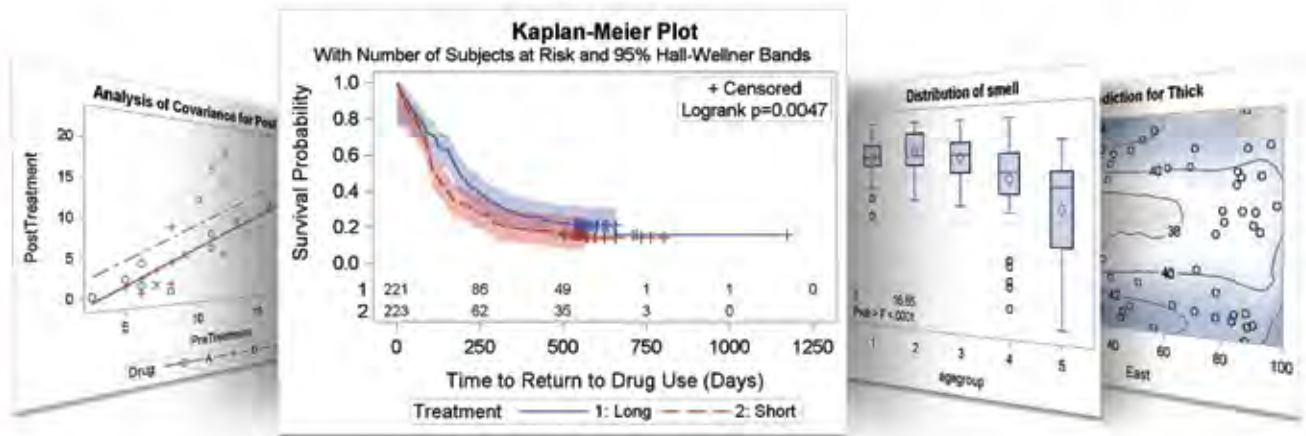
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