December 2010 • Issue #402

AMSTATNEWS

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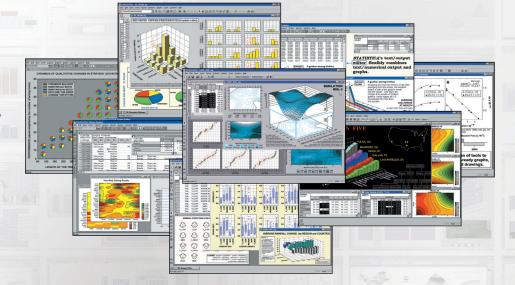
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The American Statistical Association is the world's largest community of statisticians. The ASA supports excellence in the development, application, and dissemination of statistical science through meetings, publications, membership services, education, 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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columns

MASTER'S NOTEBOOK 17

Contributing Editor

Software Testing: A Rewarding Career

This column is written for statisticians with master's degrees and highlights areas of employment that will benefit statisticians at the master's level. Comments and suggestions should be sent to ASA Research and Graduate Education Manager Keith Crank at keith@amstat.org.



Greg Goodwin earned both his bachelor's in mathematics and statistics and his master's in statistics from the University of Vermont. He works as an analytics software tester in the Advanced Analytics Division at SAS.

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Advice, Professional Development Tips for Graduate Students

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



Contributing Editors

Haley Hedlin is a doctoral candidate in The Johns Hopkins University Department of Biostatistics. She earned a BA in mathematics with concentrations in statistics and linguistics from St. Olaf College, and her research interests include developing statistical methods for increasingly large and complex neuroscience data sets.





A native of Wheaton, Illinois, David Vock earned his BA from St. Olaf College with a double major in mathematics and chemistry and a statistics concentration. He is working toward his PhD in statistics at North Carolina State University under the direction of ASA members Marie Davidian and Butch Tsiatis.



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

SCIENCE POLICY— A Category 5 Storm ... **Headed Our Way**

Norman R. Augustine is this month's science policy quest columnist. Augustine chaired the National Academies committee that wrote the enormously influential 2005 report Rising Above the Gathering Storm. In this piece, Augustine provides a commentary on the U.S. competitiveness challenges. http://magazine.amstat.org/blog/2010/12/01/ sciencepolicy1210

Graduate Certificate Program Offered at GWU

The department of statistics at The George Washington University recently inaugurated a graduate certificate program on applied quantitative risk analysis. The program consists of four courses: two foundational courses that provide comprehensive background in probabilistic models, statistical inference, and essentials of risk analysis and two courses that focus on applications of risk analysis in different domains.

http://magazine.amstat.org/blog/2010/12/01/ certificate

STATGRAPHICS User Community Forum Launched

STATGRAPHICS recently started a new online resource, available for free, that enables current and potential users of STATGRAPHICS statistical software to interact with each other, the software developers, and the worldwide network of international resellers who support STATGRAPHICS in their regions. http://magazine.amstat.org/blog/2010/12/01/ statgraphics

CHANCE Highlights

CHANCE starts out with an article by Jason Crowley, Brenna Curley, and Dave Osthus that analyzes results from the game show "Jeopardy" from 1984-2009. Graphical analysis is used to depict trends across the show's history. Also included in the fall issue are new ASA developments that will affect CHANCE. http://magazine.amstat.org/blog/2010/12/01/chance

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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.

Until We Meet Again ...

CONT e don't say goodbye, we say visit us again or until we meet again," my mother used to say when we were kids (only a few decades ago). Well, maybe it was more than a few decades ago.

I can't believe how time has flown by; it's already time to pass on the baton (or gavel) to Nancy Geller. I have truly enjoyed the honor of serving you and our great association. The ASA is a great association because of its members, who are dedicated and continuously promoting the practice and profession of statistics, unselfishly.

The ASA has a strategic plan that is actually followed, and we assess our progress on the various items regularly. I have benefited from having such a plan, which helped formulate my mantra: GIVE to ASA.

I feel proud of our workgroups' progress on the Growth, Impact, Visibility, and Education aspects of our strategic plan. Regardless of the significant amount of progress made, however, one must admit that chanting such a mantra has the subliminal effect of increasing our fundraising efforts! I am impressed that many of the suggestions from these groups have been implemented already (including the tagline that is catching on) and that there are plans in place for the ASA's staff to carry out.

This year has seen many other significant advances within the ASA:

- JSM taking place in the beautiful city of Vancouver, which brought a good bit of publicity to our profession
- Progress on accreditation
- Celebration of the first World Statistics Day
- Amstat News becoming colorful, with quality information for all ages
- A partnership with the Royal Statistical Society on Significance
- · Statisticians appearing in the news regularly and having a positive effect on innovation
- Statistical literacy and common core standards getting attention throughout the country
- · Science policy progress on Capitol Hill
- New and improved journals that are easy to access
- A delegation heading to China

The success of our association depends on ASA staff, the executive director, ASA board members, and countless volunteers. We are in great hands, and the best is yet to come!

Hang in There

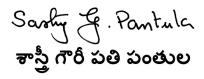
To all those undergraduates going to graduate school, graduate students starting new jobs, and mid-career folks (like me) moving up north: Hang in there! I joined the Indian Statistical Institute and moved more than 450 miles from home when I was just 17. I didn't speak the local language and became homesick within a week or so. I was ready to go home when one of my Telugu-speaking seniors asked me, "How crazy can you be for thinking about leaving? You are one of the 25 students selected from all over India to get the best education for free." I am glad I stayed and developed a support group I could count on.

Five years later, I landed in Ames, Iowa. I was homesick again and wanted to go home in spite of the hospitality offered by professors (Malay Ghosh and Wayne Fuller), who took me into their homes, and classmates (Yasuo Amemiya, Rachel Harter, and Sallie Keller), who made an extra effort to include me. When I wrote to my mother that I wanted to return to India as soon as possible, she sent a packet of cooked food and a letter with a story in it:

One day, a genie got stuck in a bottle and couldn't get out. The genie promised that if someone released her from the bottle, she would give that person \$1,000. A week went by and no one released her. The genie then promised that if someone released her from the bottle, she would give that person a million dollars. A month went by and no one released her. So, the genie promised that if someone released her then, she would grant that person three wishes. A year went by and no one released her. Finally, the genie said, "If someone releases me now, I will kill that person!"

That was about three decades ago, and my mother still calls me every weekend and asks me to come and visit her in India. C'est la vie!

I have strong continued support from my friends at North Carolina State University, who allowed me to move up north temporarily. In Washington, DC, I am finding lots of new (and old) friends in the statistical, mathematical, and computational sciences (SMACS). It is certainly an exciting time to be here, and I am confident that our profession has a bright future. Thank you for all you do.





Sastry Pantula

Academic \$alary Survey

Keith Crank, ASA Research and Graduate Education Manager

able 1 provides salary information for statistics faculty, separated according to the type of institution. Table 2 provides salary information for statistics faculty based on type of department. (Biostatistics faculty are not included in either of these tables.) All of the quantiles are based on nine-month salaries and are rounded to the nearest \$100. Information about biostatistics

faculty and nonfaculty statisticians and biostatisticians in academic institutions will be provided in a future issue.

This year, we again asked for gender information. For faculty in statistics departments, we reproduce Table 2 for male and female faculty. In some cases, the small numbers prevent us from providing all the values.

Table 1—2010–2011 Salaries of Academic Statisticians Based on Type of Institution

Institution Type	Title	Years in Rank	Count	1 st Quartile	Median	3 rd Quartile	90 th Percentile
College	Assistant Professor	0 or more	28	\$ 53,200	\$ 57,600	\$ 64,100	\$ 67,000
	Associate Professor	0 or more	29	\$ 64,400	\$ 68,000	\$ 74,200	\$ 91,500
	Professor	0 or more	36	\$ 72,900	\$ 82,400	\$ 90,000	\$102,600
Research University	Assistant Professor	0 to 1	31	\$ 72,500	\$ 78,000	\$ 80,300	\$ 87,500
		2	37	\$ 67,500	\$ 75,000	\$ 79,100	\$ 84,100
		3	31	\$ 70,600	\$ 77,200	\$ 84,000.	\$ 86,400
		4	40	\$ 68,100	\$ 75,500	\$ 79,500	\$ 84,600
		5	29	\$ 72,700	\$ 77,000	\$ 80,800	\$ 82,200
		6 or more	14	\$ 69,500	\$ 76,100	\$ 78,500	NA
	Associate Professor	0 to 1	37	\$ 76,500	\$ 84,300	\$ 90,600	\$100,800
		2 to 3	54	\$ 78,600	\$ 87,800	\$ 95,100	\$104,100
		4 to 5	38	\$ 72,400	\$ 81,600	\$ 94,200	\$ 98,700
		6 to 8	25	\$ 79,000	\$ 86,500	\$ 94,500	\$101,700
		9 to 12	22	\$ 69,500	\$ 82,100	\$ 87,900	\$ 92,500
		13 or more	24	\$ 68,200	\$ 71,800	\$ 82,700	\$ 89,800
	Professor	0 to 1	14	\$ 91,400	\$ 94,500	\$118,800	NA
		2 to 3	40	\$ 88,000	\$105,500	\$120,000	\$140,900
		4 to 5	31	\$100,700	\$120,000	\$127,800	\$148,300
		6 to 7	24	\$109,700	\$128,000	\$146,400	\$162,500
		8 to 9	19	\$113,200	\$135,500	\$148,700	NA
		10 to 14	68	\$ 98,100	\$110,700	\$136,600	\$167,400
		15 to 19	53	\$112,100	\$133,200	\$150,600	\$168,900
		20 to 24	62	\$103,200	\$114,800	\$142,500	\$184,400
		25 to 30	34	\$116,000	\$131,800	\$144,700	\$168,100
		31 or more	31	\$113,900	\$133,100	\$159,700	\$188,900
	Other	0 or more	39	\$ 47,200	\$ 59,200	\$ 75,400	\$ 84,200
All	Instructor	0 or more	44	\$ 40,000	\$ 47,800	\$ 54,800	\$ 63,400



Table 2—2010–2011 Salaries of Academic Statisticians Based on Type of Department

Institution Type	Title	Years in Rank	Count	1st Quartile	Median	3rd Quartile	90th Percentile
Statistics Department	Assistant Professor	0 to 1	28	\$ 75,000	\$ 80,000	\$ 80,500	\$ 88,200
		2	28	\$ 70,800	\$ 75,500	\$ 80,000	\$ 86,300
		3	31	\$ 68,900	\$ 77,000	\$ 84,000	\$ 86,400
		4	36	\$ 67,100	\$ 76,100	\$ 80,500	\$ 84,800
		5	25	\$ 73,500	\$ 77,800	\$ 80,800	\$ 82,300
		6 or more	14	\$ 69,500	\$ 76,100	\$ 78,500	NA
	Associate Professor	0 to 1	32	\$ 81,600	\$ 85,500	\$ 91,000	\$101,800
		2 to 3	53	\$ 76,500	\$ 87,800	\$ 95,000	\$104,400
		4 to 5	33	\$ 73,000	\$ 81,700	\$ 94,300	\$ 98,100
		6 to 9	28	\$ 77,200	\$ 84,300	\$ 92,600	\$100,800
		10 or more	29	\$ 69,100	\$ 81,500	\$ 87,600	\$ 95,000
	Professor	0 to 1	12	\$ 94,300	\$ 96,800	\$136,500	NA
		2 to 5	61	\$ 94,500	\$112,300	\$128,000	\$149,000
		6 to 10	54	\$109,400	\$132,100	\$149,400	\$167,400
		11 to 15	50	\$105,400	\$120,800	\$142,400	\$167,000
		16 to 20	66	\$110,500	\$137,000	\$154,900	\$194,700
		21 to 25	43	\$102,800	\$117,000	\$139,400	\$163,500
		26 or more	45	\$115,400	\$137,000	\$160,000	\$192,600
	Instructor	0 or more	40	\$ 39,900	\$ 47,800	\$ 54,800	\$ 64,200
	Other	0 or more	38	\$ 46,100	\$ 59,400	\$ 75,900	\$ 84,700
Not a Stat Depart- ment (but Offering a Degree in Statistics)	Assistant Professor	0 to 2	16	\$ 57,700	\$ 62,900	\$ 69,800	NA
		3 or more	20	\$ 58,200	\$ 68,000	\$ 73,300	\$ 76,600
	Associate Professor	0 to 5	28	\$ 65,300	\$ 70,500	\$ 77,400	\$ 87,900
		6 or more	15	\$ 65,800	\$ 71,200	\$ 83,200	\$ 90,800
	Professor	0 to 5	16	\$ 83,600	\$ 88,100	\$ 94,300	NA
		6 to 10	16	\$ 77,200	\$ 89,300	\$101,400	NA
		11 to 20	19	\$ 88,000	\$100,000	\$107,400	NA
		21 or more	16	\$ 90,000	\$106,400	\$122,600	NA
	Instructor or Other	0 or more	4	NA	\$ 47,200	NA	NA
In a Department That Does Not Offer a De- gree in Statistics or Biostatistics	Assistant Professor	0 or more	12	\$ 52,800	\$ 63,600	\$ 67,000	NA
	Associate Professor	0 or more	11	\$ 63,600	\$ 73,500	\$ 85,600	NA
	Professor	0 or more	16	\$ 67,300	\$ 72,000	\$ 91,100	NA

Institution Type	Title	Years in Rank	Gender	Count	1st Quartile	Median	3rd Quartile
Statistics Department	Assistant Professor	0 to 1	Male	20	\$ 75,200	\$ 80,000	\$ 81,900
Statistics Department	7.33/3talit 10/63301	0 10 1	Female	8	\$ 69,500	\$ 76,500	\$ 78,500
		2	Male	18	\$ 68,600	\$ 75,300	\$ 79,800
			Female	10	\$ 75,100	\$ 76,700	\$ 80,000
		3	Male	21	\$ 69,400	\$ 77,200	\$ 84,000
			Female	10	\$ 69,000	\$ 74,100	\$ 82,600
		4	Male	24	\$ 65,400	\$ 74,200	\$ 79,000
		4	Female	12	\$ 72,600	\$ 78,400	\$ 84,000
		5	Male	17	\$ 76,200	\$ 80,000	\$ 82,000
		5	Female	8	\$ 71,300	\$ 74,800	\$ 78,500
		6 or more	Male	6	NA	\$ 70,000	NA
			Female	8	\$ 74,700	\$ 77,400	\$ 79,700
	A	0 to 1	Male	16	\$ 86,300	\$ 89,200	\$ 96,400
	Associate Professor		Female	16	\$ 75,600	\$ 82,600	\$ 85,100
		2 to 3	Male	35	\$ 74,800	\$ 87,800	\$ 95,100
			Female	18	\$ 84,500	\$ 88,800	\$ 92,700
		4 to 5	Male	22	\$ 78,100	\$ 83,700	\$ 95,800
			Female	11	\$ 69,300	\$ 72,700	\$ 84,900
		6 to 9	Male	17	\$ 77,400	\$ 83,700	\$ 90,500
			Female	11	\$ 77,700	\$ 88,100	\$ 95,300
		10 or more	Male	24	\$ 65,500	\$ 73,700	\$ 84,600
			Female	5	NA	\$ 88,000	NA
_	Professor	0 to 1	Male	7	NA	\$ 99,000	NA
			Female	5	NA	\$ 94,500	NA
		2 to 5	Male	59	\$ 94,000	\$112,300	\$128,600
			Female	2	NA	NA	NA
		6 to 10	Male	44	\$107,100	\$128,300	\$148,800
			Female	10	\$119,700	\$138,200	\$147,300
		11 to 15	Male	40	\$102,400	\$120,800	\$136,000
			Female	10	\$112,100	\$121,100	\$148,400
		16 to 20	Male	59	\$104,300	\$137,100	\$152,100
		16 to 20	Female	6	NA	\$145,000	NA
		21 to 25	Male	38	\$102,700	\$116,100	\$142,800
		21 (0 25	Female	5	NA	\$123,700	NA
		26 or more	Male	41	\$115,200	\$136,600	\$159,500
		20 01 111010	Female	4	NA	\$158,000	NA

ASA-SIAM Series Soon to Be Available as e-Books



re the ASA-SIAM series books available as e-books? Will e-books be available soon? The questions have been getting more and more frequent. Very shortly, the answer will be "Yes."

Beginning in January 2011, libraries and institutions around the world will be able to offer approximately 400 SIAM titles, including the ASA-SIAM Series on

Statistics and Applied Probability, in e-book format. All titles will be hosted on the AIP/Scitation platform, where they will be offered as PDFs, viewable by chapter. When the program launches, about half of the books will be available, with the expectation that the entire ASA-SIAM series will be included. The remaining SIAM titles will be added to the site later in 2011. All new books published in any SIAM series will be published in electronic format and print.

Institutions will have two e-book options: purchase and subscription. The purchase option (\$9,920 for SIAM academic members; \$12,400 for nonmember institutions) will grant perpetual access to the complete SIAM collection. An annual subscription in the following years will add access to newly published titles.

Subscriptions (\$1,276 per year for SIAM academic members; \$1,595 per year for nonmember institutions) will give access to all SIAM e-books for 12 months, with permanent access to titles published during the subscription period.

"Librarians are accustomed to owning books, and, to some extent, this has carried over to the e-book arena," notes SIAM publisher David Marshall. "Accordingly, we want to be able to offer institutions the option to purchase or subscribe to our e-book collection. Some will want to have perpetual access; others will want to purchase a subscription."

To get the e-book program started on a money-saving note, all subscribers and purchasers will receive a 20% discount during the first six months of 2011. To buy or subscribe, call +1 (215) 382-9800 or, in the United States and Canada, (800) 447-7426. Also email ebooks@siam.org or visit www.siam.org/ebooks.

Once the new e-book program for institutions is in place, SIAM will consider how best to publish e-books for individuals across all its books series. Because of competing platforms and formats, the best way to reach individual readers is constantly changing; however, the goal is for you to have your favorite ASA-SIAM titles right at your fingertips, with no paper involved.

Symposium Given in Honor of Steve Lagakos

A day-long symposium in honor of Steve Lagakos was held at the Harvard School of Public Health on October 22. Lagakos, a professor of biostatistics at Harvard, died in a car accident with his wife and mother-in-law on October 13, 2009. (See http://magazine.amstat.org/blog/2009/12/01/obitsdec0.)

Several events have celebrated Lagakos's life and achievements. This symposium addressed aspects of his many contributions to biostatistics and medicine. The first session focused on his contributions to the *New England Journal of Medicine*. Lagakos served as a statistical consultant to the journal from 1997 until his death, having reviewed approximately 60 articles per year among those published. He also contributed several articles under the heading "Statistics and Medicine."

One session was devoted to training the next generation of statisticians. Lagakos voluntarily organized a supplementary reading group for students in the McGoldrick fellowship program in biostatistics in AIDS research, which supports short-term training in quantitative methods for HIV/AIDS studies for fellows who will return to their country of residence in the developing world. Aside from his contributions, this session pointed out nonstatistical aspects that are necessary for success in the statistics profession, including professional ethics, fostering interdisciplinary efforts, and communication skills.

Lagakos made many contributions to AIDS research, being especially interested in mother-to-infant transmission and design of vaccine clinical trials. In keeping with his joint interests in statistics and HIV, several medical scientists spoke about his contributions to these areas. The keynote speaker was Robert Gallo, who discussed the difficulties in developing an HIV vaccine.

During dinner, photos were shown and those who knew Lagakos had the opportunity to express remembrances over an open microphone. Thelma Zelen spoke of the Zelen's friendship with the Lagakoses, and many students and colleagues spoke of a wonderful teacher, role model, generous and kind mentor, and friend.

Donations in memory of Steve Lagakos may be sent to the Lagakos Family fund. See www.hsph.harvard.edu/biostats/lagakos.

MEMBER SPOTLIGHT

From Uncertainty to Certainty

Martha M. Gardner, GE Global Research

Ilove being a statistician, but statistics wasn't my original career choice. When I went to The University of Alabama, I majored in math because I was good at it, but I also majored in classical languages because I received language credit based on AP and placement scores. By the time I was a senior, I wasn't even sure I liked math anymore. My Latin and Greek classes were much more interesting, so I decided to study classics in graduate school.

My Latin adviser told me he thought I would be a great Latin professor, but many universities were shutting down classics departments. He said since I had talent in math, I should focus on that. When I told him I didn't like math as much, he said I must not have found the right math yet and urged me to check out the statistics program in the business school.

My first discussion was with Bill Woodall. He convinced me to add two statistics classes to my last semester of undergraduate classes. A few weeks into the semester, I knew my Latin adviser was right—I just needed to find the right math, and statistics was it!

On my way to a graduate degree in statistics, I thought I wanted to be an actuary, so I started taking exams. The first two were fine, but when I showed up for the third, I was the only student there. Everyone else was already working as an actuary, and I had never seen such a stressed out bunch of folks.

I was set to graduate in the spring, but I no longer wanted to be an actuary. My professors advised me to continue my education and consider doing my doctoral work at another school to broaden my experience. When I

was visiting other schools, I immediately hit it off with J.C. Lu at North Carolina State University, so I told my husband I had to move to North Carolina (and eventually he joined me).

Lu was working on fascinating programs with the electrical engineering department, and I was integrated into one of the semiconductor processing research teams my first semester. Early on, I helped PhD students with statistical analysis, but later found myself with my own boat of wafers and lab time. A few electrical engineering students trained me to take electrical measurements on the wafers, and I used that data to test the hypothesis that metrics could be developed across a spatial surface and used to detect and diagnose different types of equipment faults. This experience made me appreciate the data-collection process and has driven me to understand what I am asking another scientist or engineer to do when I design an experiment with them.

As it came time to graduate, I knew I wanted an industrial position and was thrilled when Gerald Hahn offered me a job in the applied statistics lab at General Electric Global Research, the technology development arm for the General Electric Company.

Early in my career, I worked on plastic formulation and chemical process development. I learned a lot about chemistry, chemical plants, and mixture designs while working on many applications and codeveloping a robust design class for mixtures. Later, I switched to aircraft engines and led the probabilistic design research program for our aviation and energy businesses. Probabilistic



Gardner

methods my team developed were implemented in in-house design tools and are now used by hundreds of GE engineers.

I also was involved with the Six Sigma initiative at GE. I taught classes and earned my Black Belt certification. I now serve as the global quality leader for GE Global Research and am responsible for all the quality programs across research sites in New York, Germany, India, and China. My role includes implementing new problemsolving methods, and I lead the design for Six Sigma and reliability councils for the company. My role is much more strategic than tactical now, but I still get involved in research projects when needed.

I also continue to be involved in ASA activities. I am the past chair of the Quality & Productivity Section and serve on the editorial boards of *Significance* and the *Journal of Statistics Education*. The ASA provides a great forum for me to stay current with new methods and keep up with old and new friends. Regardless of what I do, I always consider myself a statistician first—and I have a Latin professor to thank for it! ■

A Day of Wow at the USA Engineering & Science Festival

Beth Goodman

everal months ago, Jill Montaquila asked for volunteers to work at the ASA booth during the USA Engineering and Science Festival that was held on the National Mall in Washington, DC. My first reaction was that, of course, I would volunteer. Being a high-school teacher, I wanted to be part of something that would allow me to share my love of mathematics and statistics. Additionally, I thought it would be a good opportunity for my children. The experience did not disappoint; in fact, it exceeded my expectations.

Washington, DC, was abuzz with science, technology, engineering, and mathematics (STEM) education and outreach on October 23 and 24. When my children and

I exited the Metro station, there was no doubt in my mind we had entered Science Central. There were stage areas arranged with science demonstrations. Aisle after aisle was set up with booths, each with hands-on activities to engage the youngest and oldest.

Of course, the ASA booth—themed Discovery Through Interactive Statistics—had its own hands-on activities. Children and adults were able to simulate a catch-and-release population estimation experiment using beads. A bag of colored beads represented a population of fish. The "researcher" removed a small portion of the "fish" from the "lake" (a plastic bag) and replaced these with bright orange beads. Then, the bag was shaken and a new sample was taken

to find a sample proportion. While this activity wasn't high profile, the folks who wandered into the booth and participated in it were highly engaged and happened to learn a little bit about statistics, too.

The big draw for the ASA's booth was Ellen Gundlach's Hands-On Activity Competition grand-prize winning entry, which focused on parachute design and testing. A ladder was placed in front of the booth and statisticians stood from it, dropping little plastic men attached to parachutes. As people passed, they were asked which parachute was best. The question generated conversation with adults and children about what "best" really means and allowed discussion about how we could quantify it.

Using the power of observation, many were able to identify two useful measurements: accuracy and the time the parachute took to descend. Once participants had the opportunity to touch and examine the parachute material, we ran a test on the parachutes by dropping the chosen skydiver from a height of about 9 feet and measuring the distance it landed from the target and the length of time from drop to landing. We marked the measurements on a graph that was used as a talking point to discuss predictions, variation, mean and median, and various other statistical concepts.

One of the big benefits of this festival was that people from all walks of life, all age groups, and all education levels were able to learn about so many areas of STEM education and outreach. I believe everyone who engaged with the members working the ASA booth left with a little more knowledge and a more positive attitude about statistics.

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INTERNSHIPS2011

Abbott

Abbott Park, Illinois

Number of Positions: Multiple Type of Student: MS or PhD in

statistics or biostatistics Deadline: February 15, 2011

Internships will begin in May/June and are typically 10-12 weeks, with housing provided to qualified applicants. Interns will be provided with practical "hands-on" experience and given an opportunity to build your understanding of the pharmaceutical industry and of Abbott. The successful candidate will be assigned specific projects in support of one of our global project teams and work under the guidance of a senior statistician (mentor) to perform statistical analyses of data from clinical trials and/or conduct statistical research in areas of interest to the clinical statistics department. The successful candidate also may have the opportunity to participate in statistical seminars and workshops. At the conclusion of the internship, the intern will give a presentation that summarizes some aspect of their work. Applicants must be enrolled in a graduate-level curriculum leading to an MS or PhD in statistics or biostatistics, have completed at least one full year of study, be in good academic standing within their graduate program and overall at their university, and continue to be enrolled in graduate school the fall season following the potential internship. In addition, applicants must demonstrate excellent communication, teamwork, and problemsolving skills.

Contact: Please use our online career center at www.abbott. com. Click on "careers," then "job search," and enter keyword 81082BR.

ACT, Inc.

Iowa City, Iowa

Number of Positions: Up to 10 **Type of Student:** Doctoral student enrolled in statistics, measurement, educational or quantitative psychology, or a related doctoral program at a U.S. institution

Deadline: February 11, 2011

The summer internship program provides interns with practical experience through completion of a project, seminars, and direct interaction with professional staff responsible for research and development of testing and intervention programs. Interns participate in analysis of real or simulated data in areas such as equating, cognitive diagnostics, computer-based testing, validity, reliability, test theory, and score reporting. Information and application materials are available at www.act.org/humanresources/ jobs/intern.html.

Contact: Mark Larson, Human Resources Dept., ACT, Inc., 500 ACT Drive, P.O. Box 168, Iowa City, IA 52243-0168; (319) 337-1763; (319) 341-2450 (fax); working@act.org

American Association for the Advancement of Science (AAAS)

Washington, DC

Number of Positions: 12–15 Type of Student: Undergraduates in their senior year; graduate and post-graduate students in science, engineering, and mathematics

Deadline: January 15, 2011

Fellows work for 10 weeks during the summer at mass media sites nationwide and use their academic training in the sciences as they research, write, and report today's headlines, sharpening their abilities to communicate complex scientific and technical

issues to the public. Applicants must be enrolled in the natural, physical, health, engineering, computer, social sciences, or mathematics. Visit www.aaas.org/programs/ education/MassMedia for an application and more information.

Contact: Rahman A. Culver, Project Director, Education and Human Resources, AAAS, 1200 New York Ave., NW, Washington, DC 20005; (202) 326-6645; (202) 371-9849 (fax); raculver@ aaas.org

Amgen Inc.

Thousand Oaks and San Francisco, California; Seattle, Washington

Number of Positions: Multiple Type of Student: PhD **Deadline:** February 11, 2011

Interns will work closely with a senior-level statistician on topics related to the design and analysis of clinical trials and/or nonclinical research. At the conclusion of the internship program, interns will give a presentation summarizing their work. Applicants must be a current PhD student who has completed one year of PhD work in biostatistics or statistics and a master's degree in biostatistics or statistics. Additionally, proficiency in SAS or S-Plus on either a UNIX or NT platform is preferred. To create a profile and apply, visit www.amgen.com, click on Careers, select Job Search, and then enter 3304BR in a search field.

Contact: Karen Schenk, University Relations Department, One Amgen Center Drive, 19-1-A, Thousand Oaks, CA 91320; (805) 447-4033; (805) 498-8131 (fax); karen.schenk@amgen.com

Every year, a list of internship opportunities for students is published in Amstat News. If your organization would like to include an internship opportunity on our website, please complete the form at www.amstat.org/ education/internships. Interested students will send a letter of inquiry and résumé directly to the contact and location you list.

A detailed list of internships can be viewed at http:// magazine.amstat. org. Additional internships will be posted as received at www.amstat.org/ education/internships.

Contact Rebecca Nichols at (703) 684-1221, Ext. 1877, or educinfo@ amstat.org with questions.

Additional internships will be posted as received at www.amstat. org/education/ internships.cfm.

Arkansas Children's Hospital, Department of Pediatrics, University of Arkansas for Medical Sciences

Little Rock, Arkansas

Number of Positions: 1–2 **Type of Student:** Graduate Deadline: January 31, 2011

Summer intern will work with biostatisticians and clinical investigators to provide statistical expertise in the design, evaluation, and analysis of research studies. Whether an applicant will be offered a position will depend on need and funding, as well as the applicant's qualifications. Ideal candidates will be proficient in SAS and R. Previous research experience is highly valuable, but not required. To apply, send an undergraduate and graduate transcript (request for undergraduate transcripts may be waived for international students only), résumé, and cover letter to the contact below. For more information about the department of pediatrics, visit www.arpediatrics.org.

Contact: Hannah Feild, Arkansas Children's Hospital Department of Pediatrics, University of Arkansas for Medical Sciences College of Medicine, 1 Children's Way, Slot 512-43, Little Rock, AR 72202; (501) 364-6631; (501) 364-1431(fax). All requested documents should be mailed or faxed; emailed applications will not be reviewed. Questions regarding the position can be emailed to hcfeild@uams.edu.

Celgene Corporation

Summit, New Jersey

Number of Positions: 1 Type of Student: PhD Deadline: April 9, 2011

The biostatistics and statistical programming department has one internship position in biostatistics for full-time students pursuing a PhD in statistics, biostatistics, or a related area. You will work closely with an experienced pharmaceutical industry statistician on data analysis and reporting and/ or statistical research related to drug development. To be considered, you must have completed required courses and are working on your dissertation toward a PhD in statistics, have effective oral and written communication skills and good working knowledge of SAS

Contact: Those interested in the position should send their résumé and a reference letter from a professor to careersnj@celgene.com.

Eli Lilly and Company

Indianapolis, Indiana

Number of Positions: 3-4 Type of Student: MS or PhD with 2 years of completed

graduate work

Deadline: January 31, 2011

The global statistical sciences division of Eli Lilly and Company anticipates having several internship positions available starting in either May or June and lasting 12 weeks. You will gain practical experience and the opportunity to build your understanding of the pharmaceutical industry and Eli Lilly and Company. Successful candidates will be assigned specific projects to work on under the guidance of a Lilly statistician (mentor). Applicants must be enrolled in a graduate-level curriculum leading to an MS or PhD in statistics or biostatistics. Demonstrated leadership skills and ability to influence; excellent communication, teamwork, and interpersonal skills; strong problemsolving skills; creativity and innovation, and selfmanagement skills are desired.

Contact: To apply for this position, visit www.lilly.com/careers.

Energy Information Administration

Washington, DC

Number of Positions: Several Type of Student: Undergraduate,

Deadline: February 2011

Opportunities are available for students from a variety of academic disciplines, particularly for those with majors in economics, mathematics, statistics, engineering, operations research, business/ finance, and web development. Duties and responsibilities can include assisting with data analysis and forecasting, developing

and designing modeling systems, completing surveys or reports, researching trends and issues in domestic and international energy markets, and participating in website design and development. Visit www.eia/gov/careers and click on the internship page for more information.

Contact: EIA's Recruitment Team; careers@eia.gov

Geisinger Center for Health Research

Danville, Pennsylvania **Number of Positions:** 3

Type of Student: PhD **Deadline:** January 31, 2011

Interns will work with experienced statisticians and clinical investigators in the design and analysis of research projects originating from specialty areas such as childhood obesity, weight-loss surgery, autism, stroke, cardiovascular disease, diabetes, hypertension, genomics, and overactive bladder. Interns will prepare a written report and brief presentation summarizing their work. Qualified candidates must be enrolled in a PhD program in statistics or biostatistics and have completed at least two years of graduate work by May 2011. Candidates must have good communication skills and an eagerness to work with realworld data. Applicants should submit a résumé/CV, cover letter detailing research interests or goals for the internship, and names and contact information for two references. Visit www. geisinger.org/professionals/intern for an online application form.

Kari Contact: Walgran, Internship Coordinator, 100 North Academy Ave., MC 44-00, Danville, PA 17822; (570) 214-8193; (570) 214-9451 (fax); kewalgran@geisinger.edu

Genentech, Inc.

South San Francisco, California **Number of Positions:** 6–8 **Type of Student:** Graduate pursuing PhD in statistics, biostatistics, or related field Deadline: January 31, 2011, but offers may be made earlier

Biostatistics summer interns work for 10-12 weeks under the supervision of experienced biostatisticians on theoretical or applied problems with direct relevance to ongoing clinical or nonclinical drug-development research in areas including oncology, immunology, ophthalmology, and virology. At the end of his/her internship, each student gives a department-wide presentation on his or her research topic. Applicants must be at least 18 years old and a current graduate student pursuing a PhD in statistics or biostatistics who has completed at least one year of graduate work by May 2011 and who will be returning to school in the fall of 2011. The applicant must be legally authorized to work in the United States. In addition, applicants should have a good working knowledge of R, S-Plus, or SAS and have good communication skills.

Contact: Please send CV, personal statement of interest, and a letter of recommendation to gne2011@gene.com.

GlaxoSmithKline Pharmaceuticals, R&D

Philadelphia and King of Prussia, Pennsylvania

Number of Positions: 3 **Type of Student:** Graduate student in statistics or biostatistics Deadline: April 15, 2011

Students will work with pharmaceutical industry statisticians on experimental design and data analysis projects in a variety of drug discovery and development areas. The student co-op will be analyzing clinical/preclinical data and writing SAS/R programs. The work may include, but is not limited to, exploratory research on innovative scientific and statistical methodology, simulation, setting up study designs, QC of analysis results, and writing statistical reports. Knowledge of SAS and S-plus/R is preferred. Please email a cover letter and résumé with a list of statistics courses taken.

Contact: Kai-Fen Wang, Principal Statistician, GlaxoSmithKline R&D, King of Prussia, PA 19406; (610) 787-5501; Kai-Fen.2.wang@gsk.com

Google, Inc.

Mountain View, California; New York, New York; Seattle, Washington; Boulder, Colorado

Number of Positions: 6 Type of Student: PhD Deadline: February 1, 2011

We supply interesting problems, lots of relevant data, and a chance to work with a Google statistician and software engineers who are building the latest and greatest Google services. You provide imagination and analysis/modeling skills. Applicants should be current PhD students who have completed at least one year of course requirements, are comfortable in data rich environments, and have requisite computational skills, including high proficiency in R. Familiarity with scripting languages (e.g., Shell, Python, Perl, Gawk) also may be needed. The internship program is 12 weeks and concludes with a poster presentation. Applicants should submit a cover letter, CV, and a letter of recommendation from a faculty member.

Contact: Anu Zutshi, Technical Recruiting, Room 303B, Bldg. MTV-41, 1600 Amphitheater Pkwy., Mountain View, CA 94043; anu@google.com

Hope College

Holland, Michigan

Number of Positions: 3

Type of Student: Undergraduate **Deadline:** February 25, 2011

Work with a team of undergraduate students on cutting-edge problems in statistical genetics leading to publication in peer-reviewed journals and presentations at regional and national conferences. Visit http://math.hope.edu/reu.html for more information, a link to this year's project descriptions, and an application. In addition to the statistical genetics research group, research opportunities in probability, topology, graph theory, numerical analysis, dynamical systems, and other mathematical topics are offered through the Hope College Mathematics Department. Applicants must be U.S. citizens. Hiring may take place prior to the deadline, so applicants are encouraged to submit their application materials as soon as possible.

Contact: Nathan Tintle, Mathematics Department, Hope College, 27 Graves Place, Holland, MI 49423; (616) 395-7272; (616) 395-7123 (fax); tintle@hope.edu

Joint Program in Survey Methodology (JPSM)

Washington, DC

Number of Positions: 30 Type of Student:

Undergraduates who have completed their sophomore or junior year as of June 2011

Deadline: February 1, 2011, at 5 p.m. ET

Successful applicants will work at one of the federal statistical agencies in the Washington, DC, area during the summer of 2011 on key indicators of unemployment, crime, consumer prices, population migration and growth, agricultural production, educational performance of young people, transportation trends, or a host of other topics. They will participate in seminars on survey methodology and explore career options in survey research.

Contact: www.jpsm.umd.edu; JPSM, 1218 LeFrak Hall, College Park, MD 20742

Lubrizol Corporation

Wickliffe, Ohio

Number of Positions: 1–2 **Type of Student:** Graduate students in statistics

Deadline: February 15, 2011

The R&D statistical sciences department is seeking applications for a three-month summer internship. Typical activities within the group include building predictive models, designing and analyzing experiments, performing general data analyses, and teaching courses. The group also plays a key role in the development and deployment of a global formulation prediction system known as Q.LIFE. Possible areas of involvement include performing data manipulation and analysis, assisting with consulting tasks, and programming statistical algorithms. Training in regression modeling, design of experiments, and data analysis is required, as are strong problemsolving, statistical computing, and communication skills.

A detailed list of these internships can be viewed at http://magazine. amstat.org.

Applicants must be enrolled in a graduate-level statistics program. If interested, visit www.lubrizol. jobs and apply for the intern statistician position.

Contact: Debbie DeRenzo, Corporate Recruiter, 29400 Lakeland Blvd., Wickliffe, OH 44092; (440) 347-1044; (440) 347-5317 (fax); debbie.derenzo@ lubrizol.com

Mayo Clinic

Rochester, Minnesota

Number of Positions: 6–10 Type of Student: PhD, graduate,

undergraduate

Deadline: January 10 to February

13, 2011

The Mayo Clinic Division of Biomedical Statistics and Informatics (BSI) has summer internship opportunities for undergraduate students who have completed their junior year and graduate students at all levels. Interns will work with statisticians, bioinformaticists, and clinical investigators on research projects in areas such as clinical trials, statistical genetics, and bioinformatics. Experience with SAS, R, or scripting language (e.g., Java/Perl/Python) is preferred. For more information, click on Professional Opportunities at http://mayoresearch.mayo.edu/mayo/ research/biostat. To apply, submit your résumé and cover letter via www.mayoclinic.org/jobs. To find current openings, enter Intern-Biostats as a keyword.

Contact: Erika Wohlfiel, Division of Biomedical Statistics and Informatics, Mayo Clinic, Stabile 11, 200 First Street SW, Rochester, MN 55905; (507) 284-8763; (507) 284-0360 (fax); wohlfiel. erika@mayo.edu

Merck Research Laboratories

Philadelphia, Pennsylvania; Rahway, New Jersey; Kenilworth, New Jersey

Number of Positions: 15 Type of Student: Graduate **Deadline:** January 31, 2011

The biostatistics and research decision sciences department has internships in biometrics research (preclinical biostatistics), nonclinical statistics, clinical biostatistics, and health economics for full-time students pursuing an MS or PhD in statistics, biostatistics, or economics. In these internships, you will work closely with an experienced pharmaceutical industry statistician to perform statistical analysis of data from and/or conduct statistical research related to basic drug research, clinical pharmacology, drug and vaccine development, pharmacogenomics, or health economics. To be considered, you must have completed at least two semesters of graduate work toward an MS or PhD in statistics, biostatistics, or economics by May 30, 2011; be returning to school in the fall of 2011; have effective oral and written communication skills; and have a good working knowledge of SAS, S-Plus, and/or R.

Contact: www.merck.com/careers/ university. Create a profile and submit your resume for requisition #QUA002340

Mostly Math

Walnut Creek, California

Number of Positions: 3-4 Type of Student: Terminal master's degree in statistics **Deadline for Applying:** May apply throughout the year

Instructing, business research, or a combination of instructing and business research internships are available. The intern will learn how to assess student needs and effectively teach math, statistics, and probability to six college students. The intern will manage a business research project, including developing a statistical analysis plan, analyzing data, and writing a report. The intern will gain insight into running a small business and often work directly with the owner of the company. Applicants must be currently enrolled or have graduated in the last 18 months and be eligible to work in the United States. Apply at www. mostlymath.biz. Only complete applications will be considered.

Contact: Ms. Johnston, Mostly Math, 2500 Camino Diablo, Suite 106, Walnut Creek, CA 94597.

National Agricultural Statistics Service (NASS)

Fairfax, Virginia

Number of Positions: 3 Type of Student: Graduate student (PhD preferred) **Deadline:** March 1, 2011

Intern positions are in NASS's research and development division, which is constantly trying to improve and enhance the agency's abilities to estimate and forecast accurately using the latest developments in mathematical statistics, cognitive science, and remote sensing. Applicants must be U.S. citizens. Preference will be given to candidates having an interest in a future career with the agency.

Contact: Mark Harris, National Agricultural Statistics Service, 3251 Old Lee Hwy., Room 305, Fairfax, VA 22030-1504; (703) 877-8000, Ext. 101; (703) 877-8042 (fax); markharris@nass.usda.gov

National Cancer Institute

Bethesda, Maryland

Number of Positions: 2 Type of Student: Flexible **Deadline:** Three months before

vou want to start

Interns will work with clinical trials methodological research, specifically helping to prepare manuscripts (for publication) focusing on the design and analysis of clinical trials. See http://prevention.cancer.gov/ programs-resources/groups/b/about/ bergerv#Clinical-Trial-Training-Internships. This is an unpaid internship. To compensate, we try to make the experience as educational and rewarding as possible. There is no clerical work. Rather, the intern engages in high-level research in important areas.

Contact: Vance Berger, *vb78c@* nih.gov or vance917@gmail.com; (301) 435-5303; (301) 402-0816

New York City Health and Hospitals Corporation (HHC)

New York, New York

Number of positions: 10 Type of Student: Graduate statistics students of MDs Deadline: May 1, 2010

A detailed list of these internships can be viewed at http://magazine. amstat.org. Interns will have a lot of experience writing SAS code to identify and clean problematic data elements in large data sets. Because the databases are large and the analysis complex, interns benefit most when they spend several months with us. This internship is unpaid.

Contact: Shunsuke Ito, Division of Statistics/Data, HHC Room 1136, 346 Broadway, New York, NY 10013; (212) 676 0923; Sunsuke. ito@nychhc.org.

Novartis Oncology, Biometrics and Data Management

Cambridge, Massachusetts; Florham Park, New Jersey Number of Positions: 4 in Florham Park, 1 in Cambridge Type of Student: At least 18 months of graduate work Deadline: February 18, 2011

The internship program will be approximately 12 weeks (May-August, dates flexible). Interns will work with senior-level statisticians and focus on statistical research in both early clinical development using biomarkers and full clinical development in oncology. Topics include survival analysis, Bayesian methods, use of auxiliary variables, resampling techniques, healthrelated quality of life, missing data, modeling, and simulation. Candidates must be graduate students within an MS or PhD program in biostatistics, statistics, or a related degree with at least 1.5 years of graduate work; have a working knowledge of SAS, including SAS/ GRAPH (and S-Plus helpful); and have good verbal and written communication skills.

Contact: Linda Finelli, Biometrics and Data Management, Novartis Oncology, 180 Park Ave., Florham Park, NJ 07932; (862) 778-7404; (973) 781-2703 (fax); linda.finelli@novartis.com

NuVasive, Inc.

San Diego, California

Number of positions: 1 Type of Student: PhD candidate in statistics or biostatistics (will consider exemplary MS-level student)

Deadline: March 31, 2011

The intern will work under the supervision of the director of biometrics and provide statistical analysis, statistical programming, QC programming, simulations, and literature review in support of clinical trials and research projects. It is not uncommon for the intern to have FDA interactions or collaborate on manuscript development for peer-reviewed publications. At the conclusion of the program, the intern will give a presentation summarizing their work. The intern should be comfortable in a data-rich environment and have requisite computational skills, including proficiency in SAS and preferably R/S-PLUS. Eligible applicants must be enrolled in a graduate-level curriculum leading to a PhD (or MS) in statistics or biostatistics and have completed at least one year of study. Required are creativity, initiative, excellent communication skills (oral and written), strong problemsolving skills, and self-management skills. Interested applicants should submit a cover letter and CV/résumé

to the contact below. Cover letter should include goals of internship or research interests, a list of statistics/programming courses taken, and two references. Applicants must be legally authorized to work in the United States.

Contact: Kye Gilder, Director of Biometrics, NuVasive, Inc., 7475 Lusk Blvd., San Diego, CA 92121; (858) 736-0328; (858) 736-0428 (fax); kgilder@nuvasive.com

Pacific Northwest National Laboratory

Richland Washington

Number of Positions: Multiple Type of Student: Undergraduate,

graduate, PhD

Deadline: March 1, 2011

These positions will support national security programs at Pacific Northwest National Laboratory. Every effort is made to match the specific intern position to the intern's area of interest. The positions are currently open. Additional information can be found at www. pnl.gov/nsd/nsip/index.stm.

Additional internships will be posted as received at www.amstat. org/education/ internships.cfm.



Contact: Andrew W. Prichard, Pacific Northwest National Laboratory, 902 Battelle Blvd., P.O. Box 999, MSIN K8-34; (509) 372-4137; (509) 372-6421 (fax); nsip@pnl.gov

Additional internships will be posted as received at www.amstat. org/education/ internships.cfm.

Pfizer Global Research and Development

Kalamazoo, Michigan, St. Louis, Missouri: La Jolla, California; Groton/New London, Connecticut; Cambridge, Massachusetts; Collegeville, Pennsylvania; New York, New York

Number of Positions: Multiple at each site

Type of Student: MS or PhD in statistics, biostatistics, or a closely related field

Deadline: January 31, 2011

The program will consist of up to 480 hours of work at a Pfizer Global Research and Development facility, commencing as early as April and ending as late as December. The intern's project will be biopharmaceutically oriented, with one-onone supervision by a senior staff statistician. It will be a hands-on learning experience involving both statistical and related data review and data transformation programming tasks. The programming tasks will involve the use of SAS, R, and/or other statistical software on the UNIX or NT platforms. The intern will prepare a written report and a brief presentation summarizing their work.

Contact: Liqiang Yang, Pfizer Global Research and Development, La Jolla Laboratories, 10777 Science Center Drive, CB10-2332, San Diego, CA 92121; (858) 678-8276 (fax); liqiang. yang@pfizer.com

The Procter & Gamble **Company**

Cincinnati, Ohio

Number of Positions: TBD Type of Student: Graduate student in statistics or biostatistics Deadline: January 31, 2011

Summer interns can expect to work on applied statistics problems related to Procter & Gamble's consumer products businesses. Areas of application may include consumer understanding, clinical studies, quality control, and biotechnology. Statistical methods used will depend on the area of application. Interns' work will be overseen by a P&G statistician and will typically be done using SAS, S-plus, R, and/ or JMP. Interns will also be able to participate in various activities with other P&G interns from a range of backgrounds and disciplines. Students must have completed at least two semesters (three quarters) of study for their MS or PhD by May 2011 and be continuing with their degree program in the fall of 2011. Applicants must be legally authorized to work in the United States. Internships are typically 10-12 weeks. Interns are expected to be able to work independently with some guidance, have good oral and written communication skills, and work on applied problems effectively using SAS, S-plus, R, and/or JMP. Apply at www.

Contact: Joyce Duecker, The Procter & Gamble Company, 8700 Mason-Montgomery Road, Mason, OH 45040; (513) 622-5495; duecker.ja@pg.com

RAND Corporation

Santa Monica, California: Washington, DC; Pittsburgh, Pennsylvania

Number of Positions: Variable Type of Student: PhD Deadline: January 15, 2011

RAND has paid summer associate positions available for graduate students working toward their doctoral degrees in statistics. Selected applicants are offered opportunities to work on projects related to their interests and experience. Preference will be given to students who have completed most of their coursework and passed their initial qualifying exams. To submit an application, visit www.rand.org/ about/edu_op/fellowships/gsap.

Contact: Director, Summer Program, SummerDirector@rand. org; Susan Paddock, Head, Statistics Group, paddock@rand.org

SAS Institute, Inc.

Cary, North Carolina

Number of Positions: 1

Type of Student: PhD students studying in the United States Deadline: February 1, 2011

The SAS summer fellowship in statistics is open to doctoral candidates in statistics, biostatistics, and related graduate departments in the United States who have completed at least two years of graduate work by the end of the spring semester 2011. The statistical fellow will contribute to research, numerical validation and testing, and documentation. Eligible candidates must have completed at least two years of graduate work by the end of the spring semester of 2011 and must have demonstrated experience in statistical computing beyond the routine use of statistical packages. We are particularly interested in candidates with a combination of computational and research experience in Bayesian computing, structural equations modeling, functional data analysis, propensity score matching methods, missing data analysis, reliability analysis, or finite mixture models. We also are interested in candidates with experience using distributed and parallel methods for statistical computing. Applications are available at http:// support.sas.com/learn/ap/student/ statfellow.html.

Contact: Maura Stokes, SAS Institute, Inc., SAS Campus Drive, Cary, NC 27513; (919) 531-7172; 919-677-4444 (fax); statfellow@sas.com

SOARS

Boulder, Colorado

Number of Positions: 5–10 **Type of Student:** Undergraduates **Deadline:** February 1, 2011

Significant Opportunities in Atmospheric Research and Science (SOARS) is an undergraduate-tograduate bridge program designed to broaden participation in the atmospheric and related sciences. SOARS participants spend up to four summers doing research in atmospheric and related sciences. Successful candidates will have com-

pleted the equivalent of two years of college, have at least one semester of college remaining after the initial summer program, have a cumulative GPA of 3.0 or higher, have a major in atmospheric science or a related field, plan to pursue a career in atmospheric or a related science, be a U.S. citizen or have permanent resident status, and be comfortable with all internship requirements. For more information, visit www. soars.ucar.edu/DOCS/Documents/ SOARS % 20 protege % 20 position%20description.pdf.

Contact: Moira Kennedy, SOARS Program Assistant, P.O. Box 3000, Boulder, CO 80303; (303) 497-8622; (303) 497-8629 (fax); soars@ ucar.edu

Summer Institute for **Training in Biostatistics** (SIBS)

Boston, Massachusetts; Atlanta, Georgia; Iowa City, Iowa; Raleigh/ Durham, North Carolina; Pittsburgh, Pennsylvania; Tampa, Florida; Madison, Wisconsin; St. Louis, Missouri

Number of Positions: 20–25 at each site

Type of Student:

Undergraduates majoring in mathematics, statistics, biology, or other science

Deadline: March 4, 2011, or as specified by individual sites

The Summer Institute for Training in Biostatistics provides a comprehensive six to seven week program designed to expose undergraduate students to the opportunities offered by a career in biostatistics and to encourage them to pursue graduate study in the field. Although each program is different, all are focused on providing participants with an intensive introduction to biostatistical principles and methodologies and the essential role of biostatistics in health sciences research. Participants will enjoy instruction and lectures by recognized experts; meet practicing biostatisticians, epidemiologists, and statistical geneticists; and gain real-world experience working with data from internationally recognized studies. The program covers tuition, housing, meals, and extracurricular activities, and participants will earn college credit that can be transferred to their home institutions. Details are available at the individual program websites. Applications should be made to each program separately; there is no restriction on to how many programs a student may apply. Those who already have a baccalaureate degree are eligible to apply, but priority will be given to undergraduates at the time of application. U.S. citizenship or permanent resident status is required.

Contact: www.nhlbi.nih.gov/ funding/training/redbook/sibsweb.

Travelers Insurance

Hartford, Connecticut; Chicago, Illinois; and St. Paul, Minnesota

Number of Positions: 25 Type of Student: Master's/PhD **Deadline:** December 31, 2010

The Travelers Insurance Company is looking for 25 graduate students studying math/statistics, actuarial science, physics, computer science, economics, or engineering to join its research and development teams. The internship will call upon students' data mining and predictive modeling skills to investigate business problems facing the company. Students will work with members of the R&D divisions to analyze large data sets, explore new methodologies, construct predictive models, or evaluate existing models using various statistical packages. To apply, visit www. travelers.com, select Careers, then Job Search, then Search Current Opportunities. The Job ID for this program is 796050.

Contact: Keith Montgomery, Talent Acquisition, Travelers Insurance, One Tower Square, Hartford, CT 06183; (860) 277-0139; kmontgo2@travelers.com

U.S. Census Bureau

Suitland, Maryland

Number of Positions: Multiple Type of Student: BS/BA/MS/MA/

Deadline: Continuous

Interns may work on a variety of applications, including survey design and analysis, evaluation of nonsampling errors, and coverage and measurement error and analysis. These positions require excellent communication and interpersonal skills and knowledge in one or more of the following areas: sampling techniques, experimental design, times series analysis, regression analysis, linear models, exploratory data analysis, statistical inference, statistical analysis, statistical computing, and applied probability. U.S. citizenship is required. To apply, visit www.census.gov. Click on Jobs@Census and go to Student and Research Opportunities, then Student Temporary Employment Program.

Contact: Angela Jones, Human Resources Division, 4600 Silver Hill Road, Washington, DC 20233; (301) 763-3371; (301) 763-4706 (fax); angela.s.jones@ census.gov

Zurich

Schaumburg, Illinois

Number of Positions: 4 Type of Student: Working towards an advanced degree in statistics, math, or related field **Deadline:** Open until positions

Responsibilities include working with large data sets that include internal and external data, preliminary data analysis, and multivariate model-building, including advanced statistical techniques. Position requires working alongside experienced modelers who perform these roles in collaboration with data specialists, business units, and others. Required skills include strong statistical knowledge and quantitative/analytical skills. Proficiency in SAS is required. To apply, visit www.zurichna.com and go to Careers, then Career Opportunities. Insert the Position ID number 23497.

Contact: Carlos Herrera, 1400 American Lane, Schaumburg, IL 60196; (847) 605-6000; carlos. herrera@zurichna.com

A detailed list of these internships can be viewed at http://magazine. amstat.org.

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MASTER'S NOTEBOOK

Software Testing: A Rewarding Career

Greg Goodwin

o you use statistical software in your job? Have you ever considered software testing as a job for a professional statistician? After nearly 20 years of testing SAS/ STAT software, I can assure you that software testing is a challenging and rewarding career.

The goal of a statistical software tester is to verify that the software functions correctly and produces valid results. The mantra of a successful tester is (to paraphrase President Ronald Reagan), "Don't trust and verify!" Testers build suites of test programs and benchmark the results, including graphical displays. A SAS test suite has thousands of procedure calls to validate numeric results, verify functionality of statements and options, and check for proper error handling. These suites are run frequently during the development cycle and any benchmark changes are investigated. A thorough test suite detects unexpected side effects of updates to the code.

SAS software runs on many platforms, and test suites are run on each. Because machine precision differs with hardware architecture, slight numerical differences arise across platforms, especially in iterative computations. The tester, with assistance from the developer and platform support person, determines whether benchmark deviations result from acceptable platform differences or from real problems.

When testing a SAS procedure, we must consider an enormous number of combinations of statements, options, input data sets, and models.



Greg Goodwin tests software with Bob Derr at SAS.

The standard checklist of issues to cover also includes missing value patterns, formats, number of observations, number of levels of classification variables, scale of the data, covariate specifications, and BY-group processing.

We focus testing on the most likely usage patterns of the software. However, we also test for unanticipated or pathological usages to prevent meaningless results and to exit with an appropriate error message. It is easy to get carried away testing these unusual situations. Once, after I reported a particularly unrealistic scenario, the developer threatened to change the error message to "Greg, is that you?"

Software is validated in a variety of ways. Results from a new procedure are cross-checked against equivalent results from previously tested software, when they are available. Simulations are performed when closed-form solutions don't exist, or are used as checks when computations require much time or memory. We verify against results in text books, journal articles, and scientific websites. We also perform consistency checks within a procedure. For example, the results obtained by setting a frequency variable equal to one for every observation should match the results obtained without specifying a frequency variable.

When similar results are not available from previously tested software, we verify numeric results by writing independent validation programs, typically with the SAS/IML interactive matrix language. This is often the most creative aspect of numerical validation, and it requires an indepth understanding of the computational techniques.

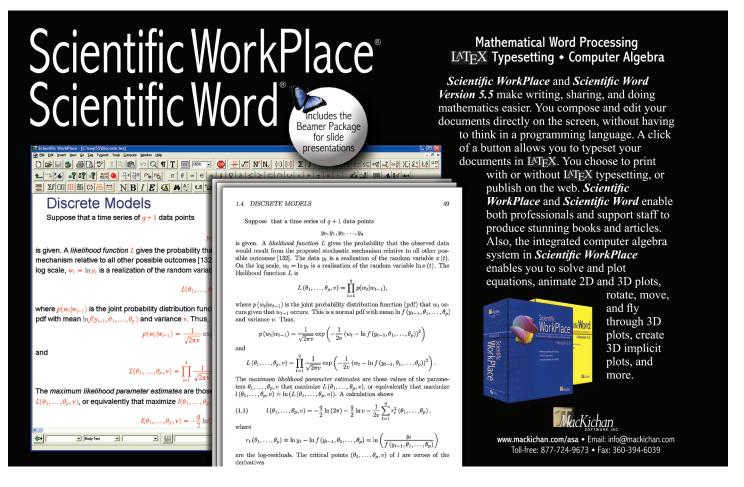
I chose statistics as my college major during my senior year in high school. The deadline for college applications was looming and I wanted a declared major. I enjoyed math, I had just completed a short section on statistics in math class, and I happened to read an article that said the job outlook for statisticians was bright. All signs pointed in one direction!

There are several reasons why I enjoy working in a software development environment. I have the opportunity to work alongside PhD statisticians who are experts in their respective fields. My group fosters a team-oriented approach, where testing is valued and my input regarding features under development is carefully considered. The need to learn about new statistical topics keeps my job fresh and demanding. And I am always thrilled when I find a problem during development.

The skills needed to succeed as a software tester include attention to detail, organizational ability, creativity, persistence, programming ability, a good statistical background, the ability to work independently, and the ability to interact and communicate effectively with developers. Advanced coursework and applied experience are critical

because awareness of underlying statistical concepts and practical usage helps a tester know how to verify results. After starting at SAS, I took several graduate courses at The University of North Carolina at Chapel Hill, which expanded my knowledge in categorical data analysis, general linear models, and generalized linear models.

From the many highs of finding problems during development to the occasional low of a customer-reported problem, my job is never boring. Continuous updating of the software with new features and methods means a never-ending supply of new things to test and new areas to learn. Testing will always be an essential part of software development, and I believe it offers a challenging and fulfilling career for a statistician.



STATtr@k

Advice, Professional Development Tips for Graduate Students

Haley Hedlin and David Vock

This column has focused on tips for beginning graduate students over the past two months and highlighted suggestions for advanced students transitioning from working predominantly on coursework to concentrating on research. In this column, we'll give advice about expanding beyond statistics courses and dissertation work that is applicable to your entire graduate school experience. Specifically, we will focus on ways to take advantage of professional development opportunities within and beyond your home department. We have organized our ideas into five major themes: becoming an engaged member of the professional statistics community, improving oral communication, improving written communication, gaining collaborative and consulting experience, and taking advantage of opportunities within the broader university community.

Becoming an Engaged Member of the Professional **Statistics Community**

Attend conferences to network

Large professional conferences—the Joint Statistical Meetings (July 30-August 4, 2011, Miami Beach, Florida) or annual meetings of the Eastern North American Region (March 20-23, 2011, Miami, Florida) and Western North American Region (June 19-22, 2011, San Luis Obispo, California) of the International Biometric Society—are great starting places for building connections outside your department and discovering



the larger statistics field. Small conferences with a more narrow focus provide an opportunity to meet researchers in your subfield and, perhaps, the authors of seminal papers in your area.

While at these conferences, we recommend attending the student events to meet your peers and future colleagues. While the cost of traveling across the country to attend one of these conferences may be prohibitive, many conferences and departments offer travel support for students.

Regional and local ASA chapter meetings are another opportunity to interact with statisticians outside your department. Plus, little funding is required to attend these.

Volunteer

Many opportunities exist to do pro bono statistics work or to volunteer within the statistics community. Inquire about whether your department has an existing infrastructure for student volunteerism (e.g., Statistics in the

Community, www.amstat.org/ education/statcom). If not, consider starting a chapter in your department or look into opportunities outside your department. Volunteering opportunities within the statistics community range from small commitments such as chairing a session at a conference to larger commitments such as serving on an ASA committee.

Improving Oral Communication

Present your research often

Conferences provide a great opportunity to present your work to an audience with similar interests. Besides conferences, there exist many less formal, but equally valuable, platforms to present your research. Perhaps your department or university sponsors a graduate student research symposium. If your work is motivated by a real-world application, ask your collaborators about presentation opportunities.

Present and discuss statistical concepts beyond your research

Internships and other collaborative experiences are great for fostering discussion. Many departments have an informal gathering following weekly seminars to discuss the seminar topic with others in attendance. Consider starting a weekly lunchtime discussion or tea if your department does not yet offer such a setting.

Acquire teaching experience

Teaching provides a great way of learning how to explain statistics to an audience below your statistical sophistication. Tutoring achieves the same effect on a smaller, more intimate scale. Leading a short course is another way to gain teaching experience without a lengthy commitment. Look to collaborators, consulting clients, or jointly appointed faculty members for opportunities.

Improving Written Communication

Gain experience writing and publishing

The editorial process of journals

forces you to improve your work continually. We recommend creating manuscripts for a variety of journals, including journals in other disciplines. Reviewing is also a great way to gain insight into the editorial process and improve your own writing.

Apply for grants and fellowships

You will learn useful and marketable skills that will come in handy in almost any future position. Obtaining external funding is a boost to your wallet and definitely your CV, even if you already have funding.

Gaining Collaborative and Consulting **Experience**

Work with nonstatisticians

Opportunities abound to consult, intern, or collaborate with nonstatistical faculty members and researchers. As we mentioned above, such experiences immensely improve communication skills. Also, you will gain a sense of how to put statistical skills to use and what statistical methods are standard in various fields and

industries. You also will realize the broader impact of your work and how statistics strengthens the wider research community.

Taking Advantage of Opportunities Within the Broader University Community

Synthesize the professional skills you've learned

Many universities offer seminars for graduate students that address the professional development skills discussed here and have developed programs to foster better teaching.

Take classes outside your home department, when appropriate

Increasing your knowledge in another field can improve your ability to collaborate.

Know that graduate school can be tough

Many universities offer gym memberships, intramural sports, art classes, support groups, etc. to help students spend time away from their work to both relieve stress and become a more wellrounded individual. Enjoy these opportunities.

Of course, no student can realistically incorporate all these suggestions at once, and it is certainly difficult to immerse yourself in all these opportunities over the course of your graduate career (and still graduate within a timely manner). We admit that we do not have the benefit of hindsight to guide our recommendations, but as current students, we are intimately aware of opportunities available to contemporary statistics and biostatistics graduate students and hope this column has provided ideas for improving and rounding out your graduate statistical education.



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USCOTS 11: The Next Big Thing

he fourth biennial United States Conference on Teaching Statistics (USCOTS 11), which targets teachers of undergraduate and AP statistics, will be held May 19–21, 2011, at the Embassy Suites Hotel in Raleigh/Durham, North Carolina. Teachers from two-year colleges are particularly encouraged to attend.

The theme for USCOTS 11 is "The Next Big Thing!" The conference will focus on teaching methods and preparation, technologies, resources, and curricular directions on the horizon. USCOTS is a working conference, with many opportunities for hands-on activities, demonstrations, networking, and idea sharing. Participants will receive the latest information about research and best practices in teaching statistics. Also, leaders in statistics education and assessment—including Allan Rossman, Beth Chance, Dennis Pearl, Wayne Stewart, Bob delMas, and Robert Gould—will give plenary talks. Finally, a conference banquet will be hosted by SAS on their nearby campus.

Proposals

Proposals for the Posters and Beyond (P&B) session are being accepted now. The P&B session provides an opportunity for conference participants to display a poster of their ideas or provide a small demonstration of their favorite examples, activities, and teaching methods. Due to limited space, the session will be limited to 80 presenters. Abstracts for posters or demonstrations submitted before February 1, 2011, will receive feedback from the session organizers by March 1, 2011. Final abstracts should be submitted by April 1, 2011. Abstracts submitted between

March 1 and April 1 will be considered, but will not receive feedback from the session organizers. Posters and Beyond is a peer-reviewed opportunity, thus the P&B team will make all decisions about inclusion in the program. Applicants will be notified of whether they have been selected by April 19, 2011.

USCOTS breakout sessions are by invitation only and have been selected by the USCOTS Program Committee. For details, visit the USCOTS website at www.causeweb.org/uscots.

Registration

Registration for USCOTS 11, which includes conference lunches and a banquet dinner, is \$160 before April 1, 2011, and \$220 thereafter. There is a \$20 discount for participants from an institutional member of CAUSE.

Registration grants are available on a limited basis (does not include hotel and travel). The registration fee will be waived for a limited number of participants for whom the fee would be a burden. Priority will be given to graduate students planning a career in teaching, high-school teachers, and those participating in the P&B session.

Abstracts for the P&B session and applications for registration grants may be submitted upon registration for the conference. Visit www.causeweb.org/uscots to register, and be sure to list your program participation as "submitting a poster or demonstration" if you wish to participate in the P&B session.

For more information about the P&B session, contact Jackie Miller at *jbm@stat.osu.edu*. For information about the USCOTS 11 program, contact Deb Rumsey at *rumsey@stat.osu.edu*.



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Siddhartha Dalal.

a scientist and a senior technology executive, was appointed to the newly created position of chief technology officer of the RAND Corporation.

"Technology will play an even bigger role in policy analysis in the future, and Sid Dalal has the experience and vision

to help RAND lead such innovation," said RAND President and CEO James A. Thomson. "Sid will help draw upon our technology roots and create and coordinate strategies for our future."

Prior to joining RAND, Dalal was vice president of research at Xerox, in charge of the company's world-wide imaging and software services research. He also worked at Bell Laboratories and Bellcore/ SAIC/Telcordia Technologies, where he served as chief scientist and executive director.

Dalal joined RAND in 2007 as a senior adviser to the president. Under his leadership, RAND has developed several systems for conducting research and was the principal technical architect behind an early warning system for identifying toxic chemicals.

Dalal has coauthored more than 75 peer-reviewed publications, including National Academy of Sciences and RAND monographs, and holds patents related to software and network engineering, risk analysis, statistical and econometrics modeling, data/ document mining, and machine learning. He earned an MBA and PhD from the University of Rochester.



C. R. Rao received the India Science Award from Manmohan Singh, prime minister of India, on October 19 in Hyderabad. This is the highest and most prestigious national recognition given to a scientist in India by the government for a major contri-

bution to a branch of science, engineering, or medicine. The award consisted of a gold medal, plaque, and \$55,000. ■

Obituaries

Harrison Morton Wadsworth Jr.

Harrison Morton Wadsworth Jr. died August 3 at the age of 85. Wadsworth was born in Duluth, Minnesota, grew up in Miami Beach, Florida, and lived most of his life in Atlanta, Georgia. He is survived by his wife of 59 years, Irene Hawkins Wadsworth.

Wadsworth earned his BIE degree and MS degrees from Georgia Tech and his PhD from Case Western Reserve University. He was a professor of statistics in the industrial and systems engineering department at Georgia Tech for 31 years and taught in China and Turkey. He operated his own quality auditing consulting business since retirement in 1991.

Wadsworth served in the U.S. Army during World War II and the Korean conflict. He was a U.S. delegate and subcommittee chair to the International Standards Organization and the American National Standards Institute. He authored or coauthored several textbooks and served as editor of the Journal of Quality Technology. He received numerous awards and medals, including the American Society for Quality's highest honor, the Distinguished Service Medal. He also was a Fellow of the American Statistical Association.

Burt Holland

Burt Holland, a professor at Temple University, died of ALS at home on June 21. He was 64 and is survived by his wife, Margaret, and children, Andrew, Ben, and Irene.

After earning a PhD in statistics from North Carolina State University in 1969, Holland served as a professor in the department of statistics at the Fox School of Business and Management. He taught a variety of courses and supervised doctoral dissertations, often helping candidates secure employment upon graduation. He was chair from 1991-1996.

In 2006, Holland created "Statistics in the News," a course that has grown popular, for Temple's quantitative literacy program. His graduate textbook, Statistical Analysis and Data Display, is a contemporary presentation of statistical methods that features extensive use of graphics for exploring data and displaying analysis. His research covered several topics, but particularly multiple comparison procedures.

Holland was a Fellow of the American Statistical Association. His interests included travel, tennis, Philadelphia sports, and classical music.

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

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

January 15, 2011

COPSS Florence Nightingale David Award

Alice S. Whittemore alicesw@standord.edu

January 15, 2011

COPSS George W. Snedecor Award

Barry I. Graubard graubarb@mail.nih.gov

March 4, 2011

ASA SPAIG Award

Barry D. Nussbaum 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

Waksberg Award

The journal Survey Methodology established an annual invited paper series in honor of Joe Waksberg to recognize his contributions to survey methodology. Each year, a prominent survey statistician is chosen to write a paper that reviews the development and current state of an important topic in the field of survey methodology.

The recipient of the award will receive an honorarium and give the 2012 Waksberg invited address at the Statistics Canada Symposium. Also, the paper will be published in a future issue of Survey Methodology.

Nominations or suggestions for topics should be sent before February 28, 2011, to Elizabeth Martin, committee chair, at Betsy@folhc.org.

Julius Shiskin Award

Nominations are invited for the annual Julius Shiskin Memorial Award for Economic Statistics, given in recognition of original and important contributions to the development of economic statistics or the use of statistics in interpreting the economy.

Nominations for the 2011 award can be submitted for individuals and groups in the public or private sector from any country. The winner will receive \$1,000 and recognition from the award's sponsors: Washington Statistical Society, National Association for Business Economics, and the ASA Business and Economics Statistics Section. A nomination form and list of previous recipients are available at www.amstat.org/sections/bus_econ/ shiskin.html. Completed nominations must be received by March 15, 2011.

For more information, contact Steven Paben, Julius Shiskin Award Committee secretary, at paben.steven@bls.gov or (202) 691-6147.



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Mahalanobis International Award in Statistics

The Indian Ministry of Statistics and Programme Implementation will continue its biennial initiative in 2011 by awarding the Mahalanobis International Award in Statistics in memory of P. C. Mahalanobis.

The award will be given to a statistician from a developing country (as defined by the United Nations) in recognition of his/her lifetime achievements in statistics and the promotion of best statistical practices.

The 2011 award will be presented at the 58th ISI World Statistics Congress in Dublin, Ireland, and consist of an economy class round-trip ticket to the congress, a per diem for accommodation and other living expenses while in Dublin, and \$5,000.

Send proposals for candidates and reasons for supporting the candidate with his or her CV. Candidates may nominate themselves for the award, accompanied by two references. Organizations, academic institutions, national statistical offices, and national statistical societies also may nominate candidates.

Send proposals with supporting documents to Shabani Mehta at s.mehta@cbs.nl before January 10, 2011.

Read about Mahalanobis's career highlights at http://magazine. amstat.org.

Jeanne E. Griffith **Mentoring Award**

It's time to start thinking about nominating an outstanding supervisor, technical director, team coordinator, or other member of a governmental statistical staff who encourages mentoring of junior staff in the federal, state, or local statistical system for the 2011 Jeanne E. Griffith Mentoring Award. Nominations must be submitted by March 25, 2011.

Nominations for 2011 will be accepted beginning in January 2011, and the award committee will make its choice by April 22, 2011. The award will consist of a \$1,000 honorarium (to be split if there is more than one awardee), a citation, and a plaque, which will be presented at a ceremony arranged by the cosponsors in June 2011.

The winning mentor(s) will be selected for his or her efforts to support the work and develop the careers of junior staff. Examples of typical mentoring activities include the following:

- · Advising junior staff about creating career opportunities, learning networking skills, and making contacts for growth and development
- · Counseling junior staff and providing resources to help develop their technical writing, analysis, presentation, and organizational skills and knowledge
- Encouraging junior staff growth and career development through attendance at training courses and conferences, participation in professional associations, and oral presentations at meetings with higher-level officials and staff from other agencies
- Motivating junior staff and building self-confidence through feedback on their efforts, being a listener when that is needed, and creating a caring and supportive environment
- Serving as a role model for junior staff through professional expertise, information, and insight; balancing collegial and personal roles; and including everyone across rank, race, ethnicity, and seniority

Nominations should be prepared as a letter or memorandum that summarizes the nominee's support and encouragement of junior staff. Nominations may be accompanied by up to six supporting letters, which should be attached to and submitted with the nomination. Photo and email copies of support letters are acceptable.

For more information, visit www.amstat.org/sections/sgovt. Questions may be addressed to Rick Peterson at rick@amstat.org and (703) 684-1221 or Carol House at housca@gmail.com and (703) 989-1334.

The nomination package may be mailed or emailed to the Jeanne E. Griffith Mentoring Award Committee, c/o The American Statistical Association, 732 N. Washington St., Alexandria, VA 22314-1943; rick@amstat.org.

Contact Stephanie Shipp at sshipp@ida.org if you would like to contribute to the award.

Ellis R. Ott Scholarship

The Statistics Division of the American Society for Quality announces the availability of \$5,000 scholarships to support students enrolled in or accepted into a master's degree or higher program with a concentration in applied statistics and/or quality management. The emphasis is on applications, as opposed to theory, and studies must take place at North-American institutions.

Qualified applicants must have graduated in good academic standing in any field of undergraduate study. Scholarship awards are based on demonstrated ability, academic achievement, industrial and teaching experience, involvement in student or professional organizations, faculty recommendations, and career objectives.

Application instructions and forms should be downloaded from www.asqstatdiv.org. Forms will be accepted between January 1 and April 1, 2011.

For more information, contact Lynne B. Hare at lynne.hare@ comcast.net or 55 Buckskin Path, Plymouth, MA 02360. ■

sectionnews

Biometrics

The Biometrics Section reminds its members that the deadline to submit abstracts for the 2011 Joint Statistical Meetings (JSM) is February 1. For information about JSM abstract submission, visit www.amstat.org/meetings/jsm/2011.

Tianxi Cai, 2011 JSM program chair, is collecting proposals for topic-contributed talks. If you are interested in organizing a topic-contributed session, contact her at tcai@hsph.harvard.edu.

The section also is seeking applications for the 2011 David P. Byar Young Investigator Award. The \$1,500 award is given to a young investigator for best emerging work to be presented at JSM. The section also may provide travel funds for authors of other outstanding papers submitted for the competition. For more information about the award, visit www.bio.ri.ccf.org/Biometrics.

For detailed section news, visit http://magazine. amstat.org/?cat=17.

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

Biopharmaceutical

The Biopharmaceutical Section completed several projects during 2010, including a website for students interested in biopharmaceutical statistics. To view the site, visit www.biostatpharma.com.

A list of the web-based training programs offered by the section is available at www.amstat. org/sections/sbiop/webinarseries.html. For detailed section news and a note from the outgoing section chair, visit http://magazine.amstat.org/?cat=17.

Statistics and the Environment

The Statistics and the Environment Section is sponsoring a student paper competition on the topic of environmental statistics. The winner will receive a \$1,000 stipend toward travel expenses to attend JSM 2011 in Miami, Florida.

If you have a topic-contributed session idea for JSM 2011, contact Devin Johnson, ENVR program chair, at devin.johnson@noaa.gov.

The section also held a well-attended workshop, called "Space-Time Statistics to Evaluate the Impacts of Climate on Health and Renewable Energy," in Colorado in October. Photos from the workshop and details about the section can be found at http://magazine.amstat.org/?cat=17.

Statistics in Epidemiology

The Section on Statistics in Epidemiology invites nominations for the Nathan Mantel Award for lifetime contributions to the development and application of statistical science and to problems and issues in epidemiology. The \$1,000 award will be presented at JSM 2011 in Miami, Florida.

Applications also are invited from young investigators who will be presenting papers at JSM. To apply, an abstract must be submitted online by February 1, 2011.

Individuals who wish to organize topic-contributed sessions should contact the 2011 program chair, Paul S. Albert, at albertp@mail.nih.gov.

For details about the section, visit http://magazine. amstat.org/?cat=17.

Quality and Productivity

A message from the Quality and Productivity Section chair, Mark Bailey, detailing a new student competition and the past year's activities can be found at http://magazine.amstat.org/?cat=17. For details about this section, visit www.amstat-online. org/sections/qp.

Risk Analysis

January 10, 2011, is the deadline for sending in papers for the Student/Young Researchers Paper Competition. Manuscripts will be judged based on relevance and interest of the subject matter and the quality of writing and research. Results will be announced by January 31, and the winner(s) will be required to submit an abstract to JSM by midnight on February 1, 2011. For more information, visit www.amstat.org/sections/srisk. For details about the researcher travel award, visit http://magazine. amstat.org/?cat=17.

Bayesian Statistical Science

The Section on Bayesian Statistical Science is sponsoring a student paper competition for research on Bayesian methodology. Papers should be submitted for presentation at JSM as topic contributed. The deadline for submission is February 1, 2011. For details, visit http://magazine.amstat. org/?cat=17.

Statistics in Defense and National Security

The ASA Statistics in Defense and National Security (SDNS) Section is seeking nominations for the SDNS Distinguished Achievement Award.

Electronic nominations are preferred and may be emailed to Patricia Jacobs at pajacobs@nps.edu. The deadline for nomination is March 15, 2011. For details, visit http://magazine.amstat.org/?cat=17.

Statistical Learning and Data Mining

The Section on Statistical Learning and Data Mining and Statistical Analysis and Data Mining are sponsoring a student paper competition for the 2011 Joint Statistical Meetings in Miami, Florida. Selected winners will present their papers in an organized session, as well as be presented with an award certificate and \$1,000. Papers must be uploaded at wileyonlinelibrary.com/journal/sam by 11 p.m. EST on January 28, 2011. For details about the award, visit http://magazine.amstat. org/?cat=17.

Health Policy Statistics

The Health Policy Statistics Section (HPSS) is soliciting volunteers and nominations for roundtable discussion leaders at the 2011 Joint Statistical Meetings. If you have an idea for a roundtable and are interested in being a discussion leader or you would like to nominate someone, email the name

and affiliation of the discussion leader and a brief description of the topic to Yulei He, HPSS program chair-elect, at he@hcp.med.harvard.edu. For details, visit http://magazine.amstat.org/?cat=17.

Teaching of Statistics in the Health Sciences

Officers of the Teaching of Statistics in the Health Sciences (TSHS) Section congratulate the section's ISM award winners for 2010. Also, the deadline for receipt of applications for next years' awards is April 1, 2011. All award winners will be notified in May 2011 and formally recognized at the TSHS business meeting and mixer, which will take place during JSM 2011 in Miami Beach, Florida. For a list of 2010 award winners and details about the upcoming 2011 awards, visit http://magazine. $amstat.org/?cat=17. \blacksquare$

Correction

Wilfrid Dixon's name was referred to incorrectly on Page 51 of the October issue. We apologize for the error.



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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California

■ Stanford University, Junior Faculty Appointment in Statistics. Assistant professor, tenure track, in either applied or theoretical statistics. See stat.stanford.edu for more information. Send application letter, CV, graduate transcripts, three letters of recommendation and at most one reprint to: Faculty Search Committee, Department of Statistics, Stanford University, 390 Serra Mall, Stanford, CA 94305-4065. Applications received by January 10, 2011, are guaranteed consideration. Stanford University is EEO/AA.

Colorado

One open-rank faculty position in statistics, starting August 2011. Candidates with outstanding research and teaching in all areas of statistics or probability are encouraged to apply. Preference will be given to applicants with at least 3 years post PhD experience. Full posting and online application at www.natsci. colostate.edu/employment/statistics. Review continues until filled. Colorado State University is an EEO/AA.

District of Columbia

■ The Energy Information Administration (EIA) is seeking motivated and highly qualified candidates for exciting full-time statistician positions. EIA provides policy-neutral data, forecasts, and analyses to promote sound 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. Email advertise@amstat.org.

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

policymaking, efficient markets, and public understanding regarding energy and its interaction with the economy and the environment. For details about job opportunities, visit www.eia.gov/careers. AA/EOE.

Florida

- The Department of statistics at the University of Florida, College of Liberal Arts & Sciences, invites applications for a tenuretrack assistant or associate professor to begin August 16, 2011. Please visit www.stat.ufl. edu for position details and instructions for applying. Our department is committed to diversity as a component of excellence, and minorities, women, and those from other underserved groups are encouraged to apply. The University of Florida is an AA/EOE.
- University of Florida, IFAS-statistics, opening for assistant professor starting as early as July 1, 2011. PhD in statistics or related field with teaching and applied collaborative research interests required. Review continues

until filled. Apply online at https://jobs.ufl.edu and submit application, cover letter, and vita. Send transcript and three recommendation letters to: PO Box 110339, Gainesville, FL 32611-0339. EOE.

Illinois

- The Department of statistics at The University of Chicago has an opening for an outstanding, broadly knowledgeable PhDlevel statistician to coordinate our undergraduate program. For more information or to apply, go to http://tinyurl.com/2dceyeu. The University of Chicago is an AA/EOE.
- Assistant professor (tenure-track) position, specializing in applied mathematics or statistics. Effective August 2011. Candidates should be effective teachers at undergraduate and graduate level and maintain a high level of scholarly achievement. Expect PhD in mathematical sciences by start date. For full consideration, apply by December 31, 2010. Minorities, persons



THE CHINESE UNIVERSITY OF HONG KONG

Applications are invited for:-

Department of Statistics

Professor / Associate Professor / Assistant Professor

(Ref. 1011/033(060)/2)

The Department invites applications for faculty post(s), open rank. Applicants should have (i) a PhD degree; and (ii) strong research and teaching records in statistics. Applicants with exceptionally strong credentials may be considered for appointment at a higher level as Professor or Associate Professor. For a senior level appointment, applicants should have an internationally renowned research record that is commensurate with the departmental interest, demonstrated administrative experience including mentoring junior faculty, and a distinguished record in teaching. appointee will (a) teach undergraduate and postgraduate courses in statistics and risk management; (b) conduct high quality research; and (c) assist in the administration of the Department. Appointment will normally be made on contract basis for up to three years initially commencing as soon as possible, which, subject to mutual agreement, may lead to longer-term appointment or substantiation later. Applications will be accepted until the post is filled.

Salary and Fringe Benefits

Salary will be highly competitive, commensurate with qualifications and experience. The University offers a comprehensive fringe benefit package, including medical care, plus a contract-end gratuity for an appointment of two years or longer, and housing benefits for eligible appointee. Further information about the University and the general terms of service for appointments is available at http://www.cuhk.edu.hk/personnel. The terms mentioned herein are for reference only and are subject to revision by the University.

Application Procedure

Please send full resume, copies of academic credentials, a publication list and/or abstracts of selected published papers together with names, addresses and fax numbers/e-mail addresses of three referees to whom the applicants' consent has been given for their providing references (unless otherwise specified), to the Personnel Office, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong (Fax: (852) 2696 1462). The Personal Information Collection Statement will be provided upon request. Please quote the reference number and mark 'Application - Confidential' on cover.

Postdoctoral Fellows in Statistics/ Biostatistics, Department of Health Care Policy, Harvard Medical School

Methodological topic areas for research include innovative methods for causal inference, hierarchical modeling, latent variable modeling, multiple informant analyses, missing data, small-area estimation, and analysis of social networks, applied to collaborative research in health and health services. Requires doctorate in statistics/ biostatistics, communication skills, interest in both methodology and applications. Two years starting between January and September 2011.

Send application including CV, statement of research interests, names of 3 references, to kirk@hcp.med.harvard.edu. Further information: Dr. Mary-Beth Landrum, Dr. Sharon-Lise Normand, Dr. A. James O'Malley, Dr. Alan Zaslavsky.

Harvard Medical School actively encourages applications of all qualified persons: Affirmative Action/Equal Opportunity Employer.

with disabilities, and women are encouraged to apply. Full details to be found at www.neiu.edu/~math. Northeastern Illinois University is an AA/EOE.

■ The Department of statistics at The University of Chicago has openings for exceptionally qualified candidates for faculty positions at the rank of assistant professor. For more information or to apply, go to http://tinyurl.com/28fdnz7. The University of Chicago is an AA/EOE.

Indiana

■ Valparaiso University's department of mathematics and computer science announces a tenure track position available at the rank of assistant professor, beginning August 2011. For full details, visit www.valpo.edu/ administration/facultyopenings.php. Candidates should be interested in working at a university engaged in issues in Christian higher education in the Lutheran tradition. Valparaiso University is an AA/EOE.

Kansas

Department of statistics at Kansas State University invites applications for one tenuretrack assistant professor position beginning fall 2011. Requires PhD in statistics or related areas. Application review begins January 5, 2011, and continues until the position is

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 doctoratelevel 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).





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 tenuretrack 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.



The Department of Epidemiology and Biostatistics at the Drexel University School of Public Health is seeking to expand its program in biostatistics. Drexel is a top-50 private research university and, for 2011, has been ranked as the second "upand-coming school" in the nation by U.S. News & World Report. The School of Public Health is the only accredited school of public health in Philadelphia and the Department, which now includes 13 tenured or tenure-track faculty, has recently added a Biostatistics Service Center and an MS degree program in Biostatistics. The following positions are available:

Full or Associate Professor in Biostatistics

Candidates should be proven scholars with strong publication records and substantive research experience as well as seasoned educators who have taught a variety of statistics courses and mentored graduate students. Individuals with a range of applied and methodological areas of interest and expertise will be considered. The successful candidate will be expected to provide direction and leadership to biostatistics research and training in the Department. The position is a tenured or tenuretrack faculty line.

Assistant Professor in Biostatistics (two position openings*)

Candidates should have a doctoral degree in biostatistics or statistics, a publication record in their field, and some teaching experience. The positions involve scholarship through applied methodological research. Collaboration with Department and School faculty as well as researchers throughout the University will be encouraged. Candidates with a variety of applied and methodological areas of interest will be considered. The positions are tenure-track and also involve teaching and academic advising in support of the School's graduate degree programs.

Apply online at www.drexeljobs.com. Use "biostatistics" as a key word in the Search Postings area and select the appropriate position. Please complete the short on-line application and also submit your C.V. and a cover letter describing your interests, background, and qualifications online.

Questions/inquiries can be addressed to: Craig J. Newschaffer, Ph.D. Chair, Department of Epidemiology & Biostatistics cnewscha@drexel.edu

* One position is pending final approval. Drexel University is an equal opportunity/affirmative action employer.

publichealth.drexel.edu

filled. For more information, see the full posting at www.ksu.edu/stats. Background checks required. AA/EOE.

Kentucky

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 AA/EOE.

Maryland

■ NIAAA/NIH/HHS/federal government. Staff scientist positions: epidemiologist/survey statistician. Multidisciplinary research/ laboratory involved in designing/coordination/analyzing cutting-edge human genome epidemiological studies. Expertise needed:/ planning national studies/analysis of large data sets. PhD or equivalent doctoral degree in epidemiology/statistics/biostatistics/ demography or related field/at least 3/yrs. postdoc expertise. Submit: CV/list of at least 3 references/brief statement of research

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

http://www.norc.org/careers

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

experience-goals in PDF or Microsoft Word to *LEBStaffSciRecruit@mail.nih.* gov. Detailed information at www.training. nih.gov/jobs/view/_10/164/Staff_Scientist_Positions. Closing date: 12/30/10. The HHS and NIH are AA/EOE.

Massachusetts

- Faculty Position, Statistical Methods in Applied Developmental Science. Eliot-Pearson Department of Child Development, Tufts University, announces a faculty position in statistical methods in applied developmental science, beginning September 2011. PhD and expertise in longitudinal multivariate statistical methods required. Scholarly record of publication and grantsmanship, and teaching experience, strongly preferred. See ase.tufts.edulfacultypositions/Default.htm and ase.tufts.edulepcd for more information. Evaluation of candidates begins January 15, 2011. AA/EOE.
- Boston University. Postdoctoral position in statistics and probability. Mathematics and statistics department invites applications for two-year postdoctoral position, statistics/probability, starting 9/1/11, pending approval. Commitment to research and teaching essential. Submit AMS cover sheet, CV, research statement, teaching statement, three letters of recommendation, one addressing teaching, to www.mathjobs.org.

Biostatistician and SAS Programmer

sought by Cytel Inc., a leading designer, developer and marketer of statistical software and services located in Cambridge, MA. Biostatistician performs the analysis of clinical trial data and provides statistical input into the reporting of clinical trial results, working under the direction of the Director of Biostatistics and/or VP of Clinical Research Services. Requires a PhD or A.B.D. (all but dissertation) status or equivalent in Statistics, Biostatistics or related field; or, in the alternative, a Master's degree or equivalent and statistical experience in the clinical trials or health research environment. SAS Programmer conducts programming activities for a trial, early phase project, indication, or publication activities, working under the direction of the Biostatistician or Senior SAS Programmer. Requires a Master's degree or equivalent in Computer Science, Statistics, Electrical Engineering or related health science field and SAS programming experience with clinical trial data; or, in the alternative, a Bachelor's degree or equivalent and additional experience. If qualified, send resume to: Claudia Hunter, Director of Administration, Cytel Inc., 675 Massachusetts Avenue, Cambridge, MA 02139.



Protecting Health, Saving Lives—Millions at a Time

DEPARTMENT OF BIOSTATISTICS

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

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

TO APPLY

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

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



University of 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.

Alternatively, mail to Statistics/Probability Search, Mathematics and Statistics, Boston University, 111 Cummington St., Boston, MA 02215. Deadline 1/3/11. AA/EOE.

- Assistant professor of statistics/biostatistics (tenure-track). Department of health care policy, Harvard Medical School, specializing in health services research, health economics, medical sociology, seeking PhD (bio)statistics interested in item response theory, hierarchical modeling, observational data analysis, causal inference, Bayesian methodology, survey design/analysis, or other areas of statistical methodology. Submit CV, 3 articles, and 3 reference letters. For submission details, see www.hcp.med.harvard.edu/ employment. AA/EOE.
- 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. View details on specific positions at www.hsph.harvard.edul departments/biostatistics/fellowship-opportunities. Applications from minority and female candidates are especially encouraged. Harvard University is an AA/EOE.
- Postdoctoral associate at the five college consortium (Amherst, Hampshire, Mount Holyoke, and Smith Colleges and University of Massachusetts, Amherst). Duties include



Duke University

DEPARTMENT OF STATISTICAL SCIENCE

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

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

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

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

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

teaching at the liberal arts colleges, research at UMass, and consulting throughout the five colleges. Three years. Ideal for a new PhD to explore careers in large and small academic institutions. Details at www.mathjobs.org. UMass Amherst is an AA/EOE.

Postdoctoral fellowship and research assistant professor positions, statistical genetics, department of biostatistics, Boston University School of Public Health (http://sph.bu.edu/ bio). Collaborative and methodological research in genetics. PhD in biostatistics, statistics or equivalent degree required, with genetics focus. Email CV, letter of intent including career objectives and research experience, interests, and goals, transcripts and 3 letters of recommendation to chary@bu.edu. sph.bu.edu/bio. Boston University is an EOE.

Michigan

Grand Valley State University in Allendale, Michigan, invites applications for an assistant professor position in the department of statistics starting fall 2011. Qualifications: PhD in statistics or related field and a commitment to teaching excellence and active scholarship. For additional information, including details on application materials and applying online, see the description at www.gvsu.edu/stat. Reviews continue until filled. EOE/AA.



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 NCIdesignated 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.

UNIVERSITY OF BUFFALO, SCHOOL OF PUBLIC HEALTH AND HEALTH PROFESSIONS

The Department of Biostatistics in the School of Public Health and Health Professions at the University at Buffalo is seeking applicants for Assistant Professor to fill a 10-month tenure-track position. This position is affiliated with the UB2020 Strategic Strength: Molecular Recognition in Biological Systems and Bioinformatics. Duties include teaching, student supervision, and methodological and collaborative research. We are seeking candidates with expertise in statistical genetics, genetic epidemiology, statistical bioinformatics or statistics & computational biology. Possible methodological research projects include, but are not limited to, developing statistical/computational methods for 1) integrated analysis of genomic data, 2) analysis of next-generation sequencing and RNA-seq data, 3) pathway- and genetic network-based analysis, 4) rare variants analysis, 5) discovery of genetic interactions in genome-wide studies, and 6) developing customized bioinformatics-related software packages.

The department has strong ties with biostatistics and bioinformatics groups at Roswell Park Cancer Institute and the New York Center of Excellence in Bioinformatics and Life Sciences, providing collaborative opportunities in genetic and genomic study design, statistical genetic analysis, genetic epidemiology, genomics, epigenetics and other areas. A typical scientific study at UB or Roswell Park involves a multidisciplinary team with statistical genetic, genomic and bioinformatic representation.

Requirements: A PhD in Biostatistics, Statistics, Genetic Epidemiology, Bioinformatics, or Computational Biology. Individuals with demonstrated abilities to obtain grant funding, work collaboratively in multidisciplinary teams, and those who excel in teaching are highly desired.

Interested individuals should apply online at https://www.ubjobs.buffalo.edu, POSTING NO. 1000626.

The University at Buffalo is an Equal Opportunity/Affirmative Action Employer. The Department of Biostatistics is interested in identifying prospective handicapped, minority, and women candidates. No person in whatever relationship with the University at Buffalo, State of New York shall be subject to discrimination on the basis of age, creed, color, disability, national origin, race, religion, ethnicity, sex, or sexual orientation, marital or veteran status.



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

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

NIAID has the following opportunity available:

Mathematical Statistician

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

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

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

Applications will be accepted December 6 to 17, 2010. For additional information, contact Mr. Richard Woods, Human Resource Special-

1-402-3903 or Dean Follmann at dean.follmann@

HHS and NIH are equal opportunity employers

Missouri

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

New Jersey

- The department of statistics & biostatistics at Rutgers University seeks a tenure-track assistant professor. Applicants must have doctoral degree in statistics or related fields before fall 2011. Responsibilities include teaching undergraduate and graduate students and conducting research. We are interested in candidates with interests in broad statistical applications, particularly in statistical learning and other statistical interdisciplinary areas. Applicants are encouraged to apply online http://stat.rutgers.edu. AA/EOE.
- The department of statistics & biostatistics at Rutgers University seeks outstanding applicants for an associate or full professor. Qualifications include doctoral degree in statistics or related fields and strong academic

Department of Statistics Columbia University

Faculty Position Starting Fall 2011

The Department of Statistics invites applications for one or more tenure track positions as Assistant Professor of Statistics to begin July 1, 2011. A Ph.D. in statistics or a related field and commitment to high quality research and teaching in statistics and/or probability are required. Outstanding candidates in all areas are strongly encouraged to apply, especially those with applied/interdisciplinary interests. Candidates will be expected to sustain an active research and publication agenda and to teach in the departmental undergraduate and graduate programs.

The department currently consists of 20 faculty members, 40 PhD students and over 100 MA students. The department has been expanding rapidly and, like the University itself, is an extraordinarily vibrant academic community. For further information about the department and our activities, centers, research areas, and curricular programs, please go to our web page at: http://www.stat.columbia.edu

All applications must be uploaded through our online

https://academicjobs.columbia.edu/applicants/ Central?quickFind=53804

Inquiries may be made to dk@stat.columbia.edu

Application deadline is January 1, 2011.

Columbia University is an Equal Opportunity/Affirmative Action employer.



Statistical Sciences Group

Los Alamos National Laboratory www.stat.lanl.gov

Ph.D. Statisticians

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

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

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

Pushing the Frontiers of Science

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

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

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

Los Alamos Area

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



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 (<u>rzuckerm@jhsph.edu</u>). 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

and research accomplishments in statistics or biostatistics. The position offers opportunities for close collaborations with genetics, cell biology & neuroscience, and the emerging Rutgers Brain Health Institute. Applicants are encouraged to apply online at stat.rutgers. edu. AA/EOE.

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



EMORY 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.

16 faculty. Send CV and contact information for 3 referees to Colin B. Begg, Biostatistics Search, MSKCC, 307 East 63rd St., New York, NY 10065. MSKCC is an AA/EOE.

- Postdoctoral in mathematical population biology. Laboratory of Populations seeks postdoctoral associate with PhD in mathematics or statistics for full-time research on mathematical, statistical, and empirical questions of population dynamics (microbes, trees, people), food webs, infectious diseases, human mortality, and other topics. http://lab.rockefeller.edu/cohenje. Ability to write English and computer programs clearly is essential. Details available at www.rockefeller.edu/hr/ academicOpportunities. Applications to Priscilla K. Rogerson at progerson@rockefeller. edu. The Rockefeller University is an AA/ EOE.
- Cornell University's School of Operations Research and Information Engineering (ORIE) seeks to fill one or more positions in financial engineering (FE). Salary will be appropriate to qualifications and engineering school norms. Applications may be at any rank and must be submitted online at https:// fast.orie.cornell.edu. The application deadline is December 24, 2010. More information on Cornell ORIE's strategic research focus is available at www.orie.cornell.edu. EOE.
- Stony Brook University, bioinformaticbiostatistics. Stony Brook University's department of applied mathematics and statistics seeks a tenure-track assistant professor in biostatistics or computational statistics, with a priority for the area of bioinformatics. For a full position description and/or application procedures, visit www.stonybrook.edu/jobs (Ref. #F-6547-10-10). Stony Brook University/ SUNY is an equal opportunity, affirmative action employer. AA/EOE.
- New York University Stern School of Business Statistics Group, tenure-track assistant professor appointment in statistics. Candidates should have evidence of boundary-spanning interests across fields that reflect significant interfaces of statistics with areas of relevance in a business school. Expected that candidate will be productive researcher and effective teacher at both undergraduate and graduate levels. See http://w4.stern.nyu. edu/ioms/facultystaff.cfm?doc_id=2526 for full details, including information on application procedure. New York University is an AA/EOE.
- The Department of biostatistics in the School of Public Health and Health Professions at the University at Buffalo is seeking applicants for assistant professor to

Williams College Assistant Professor

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

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

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

Department of Statistics Columbia University

Limited-term Faculty Position Starting Fall 2011

The Department of Statistics invites applications for the position of Assistant Professor to begin July I, 2011. This is a limited-term one-year appointment normally renewable for two more years. A Ph.D. in statistics or related field required. Commitment to high quality research and teaching in statistics and/or probability are required. Candidates will be expected to sustain an active research and publication agenda and to teach in the departmental undergraduate and graduate programs.

The department currently consists of 20 faculty members, 40 PhD students and over 100 MA students. The department has been expanding rapidly and, like the $\stackrel{\cdot}{\text{University}}$ itself, is an extraordinarily vibrant academic community. For further information about the department and our activities, centers, research areas, and curricular programs, please go to our web page at: http://www.stat. columbia.edu

All applications must be uploaded through our online site at

https://academicjobs.columbia.edu/applicants/ Central?quickFind=53807

Inquiries may be made to dk@stat.columbia.edu

Application deadline is January 1, 2011.

Columbia University is an Equal Opportunity/Affirmative Action employer.

Research Professionals



An Employee-Owned Research Corporation^{sм}

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.

Equal Opportunity Employer

www.westat.com

Come to your Census

Join the Census Bureau to help produce quality data that enable Americans to better understand our country - its population, resources, economy, and society.

Your work as a Mathematical Statistician at the Census Bureau

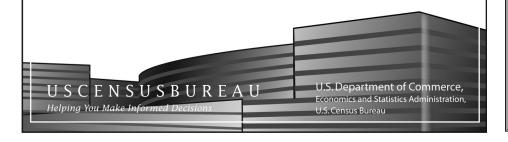
- Design sample surveys and analyze the data collected.
- Design and analyze experiments to improve survey questionnaires and interview procedures.
- Improve statistical methods for modeling and adjustment of seasonal time series.
- Perform research on statistical methodology that will improve the quality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

Requirements

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

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

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



fill a 10-month tenure-track position. Duties include teaching, student supervision, and methodological and collaborative research. We are seeking candidates with expertise in statistical genetics, genetic epidemiology, statistical bioinformatics or computational biology. Interested individuals should apply online at www.ubjobs.buffalo.edu. Posting 1000626. The University at Buffalo is an AA/EOE.

North Carolina

SRA International, Inc. is seeking a biostatistician with at least 10 years exp. in public health research to provide statistical support for leading public health scientists. Provide leadership on study design, data analysis methods, and writing manuscripts. Collaborate w/epidemiologists, clinical researchers, and laboratory biologists on projects ranging from gene association studies to environmental factors in disease etiology. Visit www.sra.com, submit your résumé for requisition 31620. SRA is an AA/EOE.

Applications are invited for a tenuretrack assistant professorship in statistics in the department of mathematical sciences. Applicants with expertise in any areas of statistics, particularly Bayesian methods or nonparametrics, are encouraged to apply at

Siemens Healthcare Diagnostics

Siemens Healthcare Diagnostics, a leading clinical diagnostics company, has an opening for a Sr. Mgr, Biostatistician at their Newark, Delaware facility. Duties include conducting statistical analysis that includes use of descriptive statistics, analysis of variance, linear and nolinear models, DOEs, simulations, etc. Write reports and recommendations on the outcomes of the analysis of the data, and key findings. Manage site staff and projects. Work closely on projects across site / development projects and collaborating with other statisticians and researhers. Education: Graduate from a masters degree program or equivalent in statistics or related discipline. Experience: Statistics and proficiency in the use of statistical analysis software, as well as, managing or supervisory experience. Biotech and/ or medical experience is a plus. Computer Skills/Software knowledge: Proficient with use of a statistical software package (SAS, JMP, Minitab, R) and Microsoft Office. We offer a competitive salary and a wide variety of benefits. Please visit our career website at www.usa.siemens.com/careers and search for requisition #86298 to apply. EOE.

NC STATE UNIVERSITY

Non-Tenure Teaching Assistant Professor

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

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

Tenure-Track Assistant/Associate/Full Professor

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

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

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

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

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

FACULTY POSITION

Department of Statistics Arts and Sciences University of Pittsburgh

The Department of Statistics at the University of Pittsburgh invites applications for a tenure-track position, pending budgetary approval. This position begins September 2011:

Assistant Professor

This position involves teaching, statistical research, and collaboration with investigators outside of Statistics. Strong preference will be given for research in computationally intensive methods, but any area of statistics will be considered.

Send CV, transcripts, and three recommendation letters before January 5, 2011 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.

mathjobs.org. Preference will be given to candidates whose research interests have biomedical and/or social sciences applications. Review of applicants will begin on December 15, 2010. Appointments will begin September 1, 2011. The University of Cincinnati is an AA/EOE.

■ The Cleveland State University Department of Mathematics seeks applicants for an assistant or associate (with proper qualifications) professor position (tenure track). A doctorate in a mathematical science and an active research agenda in biostatistics is required. For further information and application details, consult the advertisement on the university website at https://hrjobs.csuohio. edu or www.mathjobs.org. Cleveland State University is an AA/EOE.

Oklahoma

■ The University of Oklahoma - Tulsa Schusterman Center is recruiting for a tenure-track assistant professor. Candidates must have a doctoral degree in biostatistics, statistics, or related field and experience conducting collaborative research. View entire advertisement at www.publichealthjobs.net/ search/detail.cfm?jobID=10918. Individuals interested in applying should send a letter outlining their qualifications, research interests and teaching experience, current

Director, Division of Epidemiology & Biostatistics

Nominations and applications are invited for the position of Director of the Division of Epidemiology and Biostatistics (EPI-BIO) in the School of Public Health (SPH) at the University of Illinois at Chicago (UIC). New leadership is being sought to enhance ongoing research, teaching and service activities and to provide vision for continued growth. The successful candidate will have an established national reputation, strong scientific background in a field relevant to EPI-BIO, proven leadership skills and qualifications for a rank of Professor with tenure. An active research program, including a successful record of extramural funding, is required.

The Division Director is the academic officer directly responsible for: the operation of the division, including budget, personnel, curriculum and planning; maintenance of the overall quality and standards of the programs of the division; establishing new initiatives; and selecting and mentoring faculty, staff and students. In this regard, it is expected that the Division Director will: lead the division in team building and collegiality that actively support the missions of the school and the university; set strategic priorities, plan and implement new initiatives; provide vision and leadership for research, teaching, service and other scholarly activities of the division; recruit, supervise, evaluate and mentor faculty, staff and students; manage personnel and resources for the maximal benefit of the division and the school.

EPI-BIO is one of the four academic divisions in SPH with over 30 faculty members, and 150 students in either Epidemiology or Biostatistics MPH, MS and PhD degree programs. EPI-BIO has strong research, educational, and service activities in many areas, including infectious diseases, cancer, HIV/AIDS, health disparities, translational research, missing data, longitudinal data analysis, and computational statistics. Additionally, the division has vital collaborations with local, state, and federal health agencies. UIC is one of 88 Research-I Universities in the United States and is a widely recognized center for international education and research.

Evaluation of applications will begin January 1, 2011 and will continue until the position is filled. A letter of interest and curriculum vitae along with the names, addresses and phone numbers of three references should be sent to the link below.

To apply online, visit: https://jobs.uic.edu/default.cfm?page=job&jobID=4435

For fullest consideration, apply by January 1, 2011

The University of Illinois at Chicago is an Equal Opportunity/Affirmative Action Employer.



curriculum vitae, and the contact information for three references to Deanna-debus@ ouhs.edu. University of Oklahoma is an AA/EOE.

Oregon

- Position: To develop an accredited school of public health, and in support of the Environmental Health Sciences Center, the department of public health at Oregon State University seeks a tenure track assistant/ associate professor of biostatistics. To see full position announcement and to apply, go to www.hhs.oregonstate.edu/jobs. To be considered, you must apply online at Oregon State University posting #0004931. Oregon State University is AA/EOE.
- The statistics department at Oregon State University invites applications for three 9-month tenure-track assistant professor positions starting September 2011. Applicants with expertise in genomics/bioinformatics or in environmental statistics/sampling are encouraged to apply (one position is associated with OSU's Center for Genome Research and Biocomputing). See http://stat.oregonstate. edu/JobAnnounce for details. OSU strives to create a welcoming environment for our increasingly diverse student body and work force. OSU is an AA/EOE.

Department of Statistics Columbia University

Faculty Position Starting Fall 2011

The Department of Statistics invites applications for a tenure track position as Assistant Professor of Statistics to begin July 1, 2011. A Ph.D. in statistics or a related field and commitment to high quality research and teaching in statistics and/or probability are required. Outstanding candidates with interests in actuarial science are especially encouraged to apply. The ideal candidate will be an Associate or Fellow in the SOA, CAS, or other internationally recognized professional actuarial association. Candidates will be expected to sustain an active research and publication agenda and to teach in the departmental undergraduate and graduate programs.

The department currently consists of 20 faculty members, 40 PhD students and over 100 MA students. The department has been expanding rapidly and, like the University itself, is an extraordinarily vibrant academic community. For further information about the department and our activities, centers, research areas, and curricular programs, please go to our web page at: http://www.stat.columbia.edu

All applications must be uploaded through our online

https://academicjobs.columbia.edu/applicants/ Central?quickFind=53798

Inquiries may be made to dk@stat.columbia.edu

Application deadline is January 1, 2011.

Columbia University is an Equal Opportunity/Affirmative Action

NC STATE UNIVERSITY

Head, Department of Statistics **North Carolina State University**

One of the nation's leading statistics departments invites applications for the position of Head, Department of Statistics. The Department seeks an innovative leader committed to helping shape and further the strategic goals of an active and vibrant program known for its exciting, high-quality research and educational environment. The Head reports to the Deans of the Colleges of Physical and Mathematical Sciences and of Agriculture and Life Sciences and is responsible for administrative, budgetary and personnel matters. The Head is expected to set the highest standard for the Department with regard to scholarship and professional activities and to have a balanced appreciation for teaching, research, consulting and multidisciplinary collaboration. The position requires the Ph.D. in Statistics or equivalent and academic credentials consistent with a full professor at a major research university. Administrative experience will strengthen an application.

Review of applications will begin November 15, 2010; the position will remain open until filled. Applications, including a letter of interest, curriculum vita and names of three references should be submitted online. For a full description of the position and electronic application instructions, visit http://jobs.ncsu.edu and designate position number 00101879.

NCSU is an equal opportunity and affirmative action employer.



The University of Vermont

COLLEGE OF ENGINEERING AND MATHEMATICAL SCIENCES DEPARTMENT OF MATHEMATICS AND STATISTICS BURLINGTON, VERMONT

Research Assistant Professor Position in Statistics

The Department of Mathematics and Statistics invites applications for a faculty position at the rank of Research Assistant Professor. The primary duties of this research based appointment are to provide advanced statistical support to the Vermont Oxford Network (VON). VON is a non-profit voluntary collaboration of health care professionals dedicated to improving the quality and safety of medical care for newborn infants and their families.

VON's large database of infant outcomes and characteristics provides interesting statistical challenges and opportunities to publish both methodological and applied research. The position also allows teaching up to one statistics course per semester in the Department of Mathematics and Statistics.

Interest in applying research to biomedical problems through cross-disciplinary collaborations is required and programming skills desirable. Qualifications for the position include an earned doctorate in statistics, biostatistics or a related field, a proven record of scholarly activities and the ability to teach courses in the undergraduate and graduate curricula. The position will remain open until filled.

For more information about this position, the College, and the University, or to submit your application, please go to www.uvmjobs.com and search for requisition number 033772.

The University of Vermont is an Affirmative Action/Equal Opportunity employer.

■ Portland State University, Fariborz Maseeh Department of Mathematics & Statistics. Two assistant professor positions in statistics. Portland, OR 97207-0751. Positions start September 16, 2011. 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 at stathire@pdx.edu. Portland State University is an AA/EOE.

Pennsylvania

- Multiple tenure-track statistics department positions, all levels, beginning August 2011. PhD statistics or related field, excellent research and teaching; particulars at www. stat.psu.edu. Please apply at mathjobs.org or application letter, CV, three recommendation letters to: Chair, Search Committee, 326A Thomas Building, University Park, PA 16802-2111. Penn State is AA/EOE.
- The statistics department at Temple University invites applications for tenuretrack faculty positions at all levels. Candidates in any area of statistics must hold a PhD, toptier publications, proven teaching record, and strong theory/application background. Apply electronically to Sanat Sarkar, stat.recruiting@



Duke University

DEPARTMENT OF STATISTICAL SCIENCE

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

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

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

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

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



UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE

The Division of Biostatistics in the Department of Biostatistics and Epidemiology at the University of Pennsylvania School of Medicine seeks highly qualified candidates for clinician educator non-tenure track standing faculty positions at the Assistant, Associate, or full Professor level. Academic rank will be commensurate with credentials and experience. A doctoral degree in Biostatistics, Statistics, or a related discipline is required. Review of applications will begin on November 1, 2010. Applications will continue to be accepted after this date, until the positions are filled. The expected start date is July 2011 or later.

<u>Clinician Educator track</u> faculty focus primarily on collaborative research as co-investigators. Applicants with research interests in Imaging, Health Incentives, Clinical Trials and Data Coordinating Centers, Biomarkers, Translational Sciences, and Pediatrics are encouraged to apply. Applicants in other research areas will also be considered. Candidates are expected to have a strong commitment to teaching and research scholarship, demonstrated by outstanding research productivity already underway. Responsibilities include collaborative research as co-investigators and participation in Penn's Center for Clinical Epidemiology and Biostatistics teaching programs.

The University of Pennsylvania, founded by Benjamin Franklin, is a world-class research institution, located near the heart of Philadelphia. All of Penn's 12 schools are located within walking distance of one another. The Penn Medical School is one of the top ranked medical schools in NIH funding.

The University of Pennsylvania is an affirmative action/equal opportunity employer. Women and minorities are strongly encouraged to apply.

Qualified applicants should send a cover letter indicating the specific position to which they are applying, curriculum vitae, three letters of reference, and a statement of research interests to:

Warren B. Bilker, Ph.D.
Chair, Biostatistics Faculty Recruitment Committee
Department of Biostatistics and Epidemiology
Center for Clinical Epidemiology & Biostatistics
University of Pennsylvania School of Medicine
http://www.med.upenn.edu/apps/faculty_ad/index.php/g303/d2443

Division of Biostatistics School of Public Health - University of Minnesota

ASSISTANT or ASSOCIATE PROFESSOR OF **BIOSTATISTICS**

The Division of Biostatistics, School of Public Health, at the University of Minnesota is announcing the opening for a faculty member at the rank of Assistant or Associate Professor, non-tenure track, to work and consult with investigators and clinicians in the Masonic Cancer Center of the University of Minnesota. Applicants must have a PhD in biostatistics or statistics by the starting date of the appointment. We are particularly interested in applicants who have interests, training, and/or experience in Clinical Trials – especially early-phase clinical trials - and Statistical Bioinformatics, but strong applicants in other areas such as Bayesian or Epidemiologic methods, Survival analysis, and analysis of Longitudinal data or Quality of Life data are also welcomed and encouraged to apply.

The Division of Biostatistics currently includes 35 graduate faculty and 65 staff, and offers MS, MPH, and PhD degrees. Current faculty research in statistical methodology includes analysis of spatial and longitudinal data, Bayes and empirical Bayes methods, computer-intensive methods such as Markov chain Monte Carlo, survival analysis, clinical trials design, statistical genetics/genomics, generalized linear models, latent variable models, and categorical data analysis. The Division has an international reputation as the home of the statistical coordinating centers for a number of major clinical trials. Research in the Masonic Cancer Center covers all three areas of basic science, clinical science, and population science.

Applications received before December 10, 2010, will be considered for a first round of interviews but the positions will remain open until filled. The salary range for this faculty position will be very competitive and the University of Minnesota offers excellent fringe benefits. These are nontenure-track contract positions, with the initial period of the contracts set at two years.

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

https://employment.umn.edu/applicants/Central?quickFind=90553. Please reference requisition #168721. In addition, three letters of recommendation should be sent to: Biostatistics Search Committee, Division of Biostatistics, A460 Mayo Building, MMC 303, 420 Delaware Street SE, Minneapolis, MN 55455. For questions contact Sally Olander (brown198@umn.edu).

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

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

temple.edu, with cover letter, CV, evidence of teaching, & three recommendation letters. For more information, go to www.fox.temple. eduldept/statistics. Temple University is an AA/EOE.

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, USA. Application screening begins immediately, continues until positions closed. AA/EOE.

Tennessee

■ Austin Peay State University seeks to fill three tenure-track positions in statistics, statistics education, and applied mathematics. Rank and salary will be commensurate with experience. The successful candidates must be able to support the programs of the department at both graduate and undergraduate levels. APSU is a growing, student-centered, regional university with approximately 10,500 students. Apply at www.apsu.edu/human-resources/faculty/ CurrentJobOpenings. AA/EOE.

Utah

■ Utah State University. The department of mathematics and statistics seeks applications for a tenure-track assistant professor position in statistics. Candidates must have PhD in statistics or related field and must demonstrate potential for excellence in research and teaching. Women, minorities, veterans, and candidates with disabilities are encouraged to apply. AA/EOE. Submit application documents through https://jobs.usu.edu (Req ID 052360). AA/EOE.

Virginia

■ Biostatistics Faculty Position. The division of biostatistics and epidemiology at the University of Virginia is seeking applications for an assistant/associate professor in biostatistics. This tenure-eligible faculty will play a major role in collaborating on various biomedical studies and leading a biostatistics graduate program. The successful candidate will also conduct high-impact biostatistical research. Interested candidates should apply at www.hrs.virginia.edu/employment.html. Questions to Jae Lee (jaeklee@virginia.edu). AA/EOE.

Division of Biostatistics School of Public Health - University of Minnesota

ASSISTANT/ASSOCIATE/FULL PROFESSOR OF BIOSTATISTICS

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

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

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

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

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

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

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

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

STATISTICAL SCIENCES

Cornell University, located in Ithaca, New York, is an inclusive, dynamic and innovative Ivy League university and New York's land-grant institution. Its staff, faculty, and students impart an uncommon sense of larger purpose and contribute creative ideas and best practices to further the university's mission of teaching, research, and outreach.

The Department of Statistical Science at Cornell University invites applications for two open-rank faculty positions. We seek individuals with a strong foundation in statistical theory and/or methodology doing outstanding research. A PhD in statistics of related mathematical science is Application screening begins immediately and continues until the positions are filled. Applicants for Assistant Professor must submit a cover letter, a curriculum vitae including a list of publications, and arrange for three letters of reference to be sent directly to the Search Committee. Up to three relevant research publications may also be submitted. Applicants for Associate and Full Professor positions must possess the potential for leadership in the core research and teaching missions of the Department.

Candidates for senior positions should submit a cover letter that clearly highlights your three mos important research publications, a curriculum vitae that includes a full list of publications and current and past sponsored project activity, and the names of three or more individuals that may be contacted for

Application materials and all related queries should be sent to: stat_search@cornell.edu



Cornell University Cornell University is an affirmative action/equal opportunity employer and educator.

Academia Sinica **Institute of Statistical Science Regular Research Positions**

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

Dr. Hsin-Cheng Huang Chair of the Search Committee Institute of Statistical Science, Academia Sinica 128 Sec. 2 Academia Road, Taipei 11529, Taiwan, R.O.C.

Fax: +886-2-27831523

E-mail: hchuang@stat.sinica.edu.tw

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

Washington

University of Washington Center for Statistics and the Social Sciences (CSSS) has a tenure-track assistant or associate professor position beginning fall 2011. Joint: statistics and economics, political science, psychology or sociology. The center fosters collaborative research between statistics and social sciences. We seek a faculty member contributing to the development of statistical methodology relevant to social science. UW faculty engage in teaching, research, and service. csss.washington.edu. University of Washington is an EOE/AA.

Wisconsin

- Tenure-Track Position in Actuarial Science. The Wisconsin School of Business seeks a research scholar at the assistant, associate, or full professor level in the field of actuarial science. Qualified candidates are required to hold a PhD in a field related to actuarial science and to demonstrate high quality research potential and excellence in teaching. See the website www.bus.wisc.edu/ asrmi for details. EOE.
- The University of Wisconsin-Platteville Mathematics Department has an opening for at least one tenure-track position for a statistician beginning August 2011. A

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

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

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

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

> The University of Michigan is an affirmative action/equal opportunity employer. Woman and minorities are encouraged to apply.

doctorate in statistics must be completed with a transcript provided by January 1, 2012. Preference will be given to an applicant interested in the actuarial field. To learn more, visit www.uwplatt.edu. Review of applications will begin on December 15, 2010. EOE.

CANADA

Ontario

- Lecturer-statistics. The department of computer and mathematical sciences, University of Toronto Scarborough, invites applications for a full-time position in statistics at the rank of lecturer, beginning July 1/2011. Candidates should have a post-graduate degree in statistics or a related field and must demonstrate potential for excellence in teaching at the undergraduate level. Apply directly at www.mathjobs.org/ jobs/jobs/2406. The University of Toronto AA/EOE.
- Assistant professor–statistics. The department of computer and mathematical sciences, University of Toronto Scarborough, and the graduate department of statistics, University of Toronto, invite applications for a tenure-stream appointment in statistics at the rank of assistant professor, beginning July 1/2011. We are interested in candidates with research expertise in applied statistics/biostatistics/machine learning/ statistical applications in finance and risk management/and statistical genetics. Apply directly at www.mathjobs.org/jobs/jobs/2405. The University of Toronto is AA/EOE.

International

Department of mathematics, Universidad de los Andes, Cra 1 No 18 A-10, Bogota, Colombia, is seeking an assistant professor in statistics or related fields. Application, curriculum vitae, a description of current and planned research, three letters of recommendation should be submitted to above address or matema@uniandes.edu.co. For more information, see http://matematicas.uniandes. edu.co/positions. Screening will begin on January 15 and continue until position is filled. EOE.

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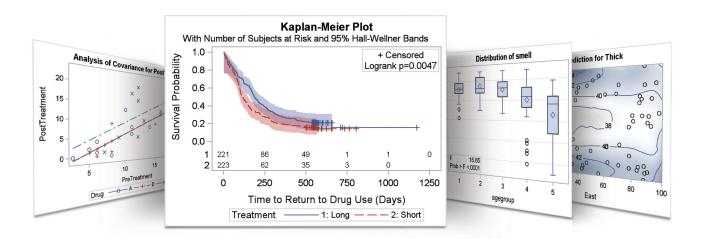
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