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AMSTATNEWS

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JSM 2011 ***Highlights & Trends***

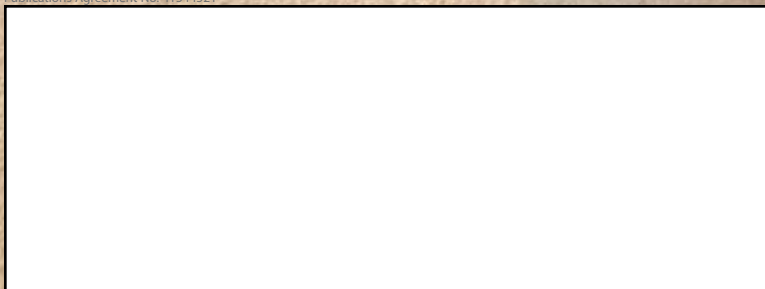
*Many Honored at Presidential Address,
Awards Ceremony*

ALSO:

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Kicks Off Preparations
for 175th Anniversary
Celebration

The ASA Fellow
Award—Revisited

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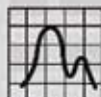
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Executive Director

Ron Wasserstein: ron@amstat.org

Associate Executive Director and Director of Operations

Stephen Porzio: steve@amstat.org

Director of Education

Martha Aliaga: martha@amstat.org

Director of Science Policy

Steve Pierson: pierson@amstat.org

Managing Editor

Megan Murphy: megan@amstat.org

Production Coordinators/Graphic Designers

Melissa Muko: melissa@amstat.org

Kathryn Wright: kathryn@amstat.org

Publications Coordinator

Val Nirala: val@amstat.org

Advertising Manager

Claudine Donovan: claudine@amstat.org

Contributing Staff Members

Pam Craven • Amy Farris • Eric Sampson

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American Statistical Association
732 North Washington Street
Alexandria, VA 22314-1943 USA
(703) 684-1221 • FAX: (703) 684-2037

ASA GENERAL: asainfo@amstat.org

ADDRESS CHANGES: addresschange@amstat.org

AMSTAT EDITORIAL: amstat@amstat.org

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Promoting the Practice and Profession of Statistics

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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Online Articles

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

The deadline for listing an internship opportunity in the December 2011 issue of *Amstat News* is October 20. Any listings received after October 20 will be posted on the ASA website only. Visit the ASA website at www.amstat.org/education/internshipopportunities.cfm for details.

Seven ASA journals are conducting searches for editors and co-editors. If you or someone you know is interested in helping shape the direction of some of the ASA's most prestigious publications, visit *Amstat News* online at <http://magazine.amstat.org/blog/category/addfeature/news-and-announcements> for details.

The American Statistical Association/National Council of Teachers of Mathematics joint committee sponsored a Beyond AP Statistics (BAPS) workshop during the annual Joint Statistical Meetings. The BAPS workshop is offered for experienced AP Statistics teachers and consists of enrichment material just beyond the basic AP syllabus. To find out more, visit *Amstat News* online at <http://magazine.amstat.org>.

The Council of Professional Associations on Federal Statistics (COPAFS) acts as an advocate for the development and dissemination of high-quality federal statistics. Through COPAFS, members have an opportunity to review and affect issues such as timeliness, quality, confidentiality, and the relevance of data. To view the highlights of their June 3 meeting, visit <http://magazine.amstat.org/blog/category/addfeature/copafs-corner>. Minutes and copies of the overheads used by the presenters can be found at www.copafs.org.

Nilanjan Chatterjee is known for important and diverse contributions to biostatistics, epidemiology, and genetics. This year, along with the COPSS President's Award, he was selected to receive the COPSS Snedecor award. Chatterjee spoke with Bhramar Mukherjee about winning the two awards, and you can read about what he had to say online at <http://magazine.amstat.org>.

SIAM's e-book program for libraries and institutions launched in January and has gathered a rapidly growing number of licensees for its two access options: permanent access and annual subscription. If you are working on a book and looking for a publisher, consider the ASA-SIAM series, which offers competitive royalties, expert copy editing, and global marketing and distribution. Also, SIAM will keep your book perpetually in print. For details, visit <http://magazine.amstat.org>.

A special issue of the *Journal of the Indian Society of Agricultural Statistics (JISAS)* features a festschrift for Prem Narain, who is celebrating his 75th birthday. To view the issue, visit www.isas.org.in/jisas. You also can read about Narain at <http://magazine.amstat.org/blog/category/addfeature/news-and-announcements>.

column

29 **STATtr@k** **Attitudes About Postdoctoral Training for Statisticians Evolve**

STATtr@k is a column in *Amstat News* and a website geared toward people who are in a statistics program, recently graduated from a statistics program, or recently entered the job world. To read more articles like this one, visit the website at <http://stattrak.amstat.org>. 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 Editor



Karr

Alan F. Karr is director of the National Institute of Statistical Sciences and a professor of statistics and biostatistics at The University of North Carolina at Chapel Hill. He is a Fellow of the American Statistical Association and Institute of Mathematical Sciences and an elected member of the International Statistical Institute.



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member news

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A Global Experience

One of the responsibilities of the ASA president is to travel to many places and represent the ASA. In mid-August, I had the privilege of attending the International Statistical Institute (ISI) World Statistics Congress in Dublin, Ireland. For me, this was a mind-expanding experience, both in terms of subject matter and meeting so many statisticians from so many countries. I was thrilled to attend a session titled “Reflections on the Past, Present, and Future of Statistics,” featuring Sir David Cox (See <http://isi2011.congressplanner.eu/showabstract.php?congress=ISI2011&id=100> for abstract), Donald Rubin (See <http://isi2011.congressplanner.eu/showabstract.php?congress=ISI2011&id=98> for abstract) and Peter Huber (See <http://isi2011.congressplanner.eu/showabstract.php?congress=ISI2011&id=99> for abstract and access to full paper), with Stephen Stigler as a discussant. A theme that emerged is that statistics has evolved from the traditional view of small homogeneous data sets and precisely defined models to large, heterogeneous data sets and there is a need for strategic thinking, development of complex, approximate models, and statistical computing to support such developments.

Also of great interest was a panel discussion about the future directions and new challenges in mathematical statistics. This panel featured Peter McCullagh of The University of Chicago as chair and panelists Rosemary Bailey of Queen Mary College, London; Xiao-Li Meng of Harvard University; Joan del Castillo of the University of Barcelona; and Elvira DiNardo of the University of Basilicata, Italy. To my surprise, the premise of the session was that new mathematical statistics will arise from applications, and, indeed, the panelists represented a variety of areas.

Bailey, who works in designs of agricultural experiments, spoke about whether statisticians should

be in a mathematics department, in their own unit, or spread in other departments. She also posed the question of how statisticians keep up with new technology to identify new problems and discussed the general problem many of us face: “We all have computers these days, so we don’t need statisticians!”

Meng addressed the problems of mathematical models being too simple, or even incorrect, using a paper about catching terrorists that appeared in *Significance* as an example. Del Castillo spoke about problems in finance and analyzing financial markets, while DiNardo discussed symbolic methods in statistics with applications to computational statistics.

Another stimulating session was a lunch meeting of national and regional statistical societies. The goal of this meeting was to identify areas in which statistical societies can cooperate and coordinate activities and identify needs of societies from developing regions of the world. It was exciting to meet the presidents of statistical societies from Ethiopia, France, Hong Kong, Japan, (South) Korea, Lithuania, the Netherlands, Singapore, Slovenia, South Africa, Turkey, and, of course, Ireland, to name a few.

Two universal themes emerged. One was the need for statisticians in academe and statisticians in practice, whether in government or industry, to work together to consider their joint interests and the future of statistics in their countries. The other was the global shortage of statisticians. Training statisticians is an important issue in developing nations (as well as in developed nations), where potential statisticians often must leave their countries to obtain proper credentials. We learned that several countries are forming organizations of young statisticians to help one another in career development. Such organizations exist in England (see <http://sites.google.com/site/ysm2011conference>) and Africa.



Nancy Geller



From left: ASA President-elect Bob Rodriguez, ASA President Nancy Geller, ASA Past President Sastry Pantula, and 2009 ASA President Sally Morton gather at JSM 2011 in Miami Beach, Florida.

A satellite meeting, the first Young Statisticians' Meeting, preceded the ISI Congress and sought to unite such activities and promote active participation of early career statisticians. (See <http://isi-web.org/com/ys> and www.scss.tcd.ie/conferences/YSI2011)

A report at the national and regional statistical societies meeting indicated the satellite meeting was successful.

The ASA was represented at this meeting by Executive Director Ron Wasserstein, Past President Sastry Pantula, President-elect Bob Rodriguez, and me. Wasserstein reported on our plans to spearhead 2013 as the International Year of Statistics, which was later enthusiastically endorsed by the ISI. We are hopeful that many societies throughout the world will participate.

Overall, it was inspiring to look beyond our own society and learn that we statisticians are truly members of a global community.

A handwritten signature in black ink that reads "Nancy L. Geller".

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Highlights of the July 2011 ASA Board of Directors Meeting

Under the leadership of ASA President Nancy Geller, the ASA Board worked through an interesting and important policy agenda during its meeting from July 29–30 in the Loews Hotel, Miami Beach, Florida. Here are the highlights:

- Based on recommendations of the Current Index to Statistics (CIS) management committee and the Committee on Publications, the board approved the appointment of Hadley Wickham as database editor of CIS, effective immediately and continuing through December 31, 2014.
- Robert Starbuck was appointed to the Committee on Nominations for 2012–2013, serving as chair in 2012.
- ASA Treasurer Keith Ord updated the board on the status of ASA investments. As of the end of the second quarter, the ASA's portfolio had a market value of about \$10 million. Ord said the balance among various types of investments was closely adhering to the association's guidelines for its portfolio.
- The board approved the 2012 ASA budget.
- The board approved a recommendation to select either Baltimore or Philadelphia for JSM 2017. Negotiation with these cities is under way, and a final selection will be made later this year.
- The ASA provides support for several small conferences hosted by other societies. The board continued a discussion about how to improve our process for doing so.
- The board received the report of the Committee on Nominations, chaired by Stephen H. Cohen. The following individuals will be candidates for senior board positions in the 2012 elections:

President-elect:

- Nathaniel Schenker, National Center for Health Statistics, CDC
- Stephanie Shipp, IDA Science & Technology Policy Institute

Vice President:

- Roxy Peck, Professor Emerita of Statistics, Cal Poly, San Luis Obispo
- James Rosenberger, Penn State University

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David Marker, 3rd-Year Council of Chapters Representative

Tom Short, 2nd-Year Council of Chapters Representative

Bonnie LaFleur, 1st-Year Council of Chapters Representative

Ray Chambers, International Representative

Karen Kafadar, Publications Representative

Keith Ord, Treasurer

Ron Wasserstein, Executive Director

- As he does at each meeting, ASA Director of Science Policy Steve Pierson summarized the many actions and activities of the ASA in promoting the practice and profession of statistics with Congress, government agencies, and other entities.
- The board took the following two policy actions:

The board endorsed the six recommendations related to the National Center for Education Statistics (NCES) made by the American Educational Research Association (AERA) in its *Report and Recommendations for the Reauthorization of the Institute of Education Sciences*.

Given the important role statisticians play in climate change research, the board endorsed the AAAS June 28, 2011, statement, "Regarding Personal Attacks on Climate Scientists." The personal attacks have become most concerning for scientists working on climate science, but the board noted this statement pertains to researchers in all scientific disciplines.

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- The board approved the ASA's involvement in the declaration of 2013 as the International Year of Statistics. Much more about this will appear in *Amstat News* soon. The International Year will promote the importance of statistics through the combined energies of statistical societies and organizations worldwide. Goals include the following:
 - Increasing public awareness of the power and impact of statistics on all aspects of society
 - Nurturing statistics as a profession, especially among young people
 - Promoting creativity and development in the science of probability and statistics
- Vice President Mary Mulry presented the annual report of the Professional Issues and Visibility Council, which is the umbrella for more than a dozen ASA committees whose work focuses on the statistics profession. Recent activities, cross-committee collaborations, plans for the future, and matters of concern were addressed in Mulry's report.
- After many months of deliberation, the board decided to disband the Committee on Student Pro Bono Statistics. The board strongly supports the work of Statistics in the Community and like groups, but a committee was not the best way to do so. Staff will assist in setting up another organizational structure if there is interest.
- Board member Tom Short presented the results of the ASA's highly successful 2011 Public Awareness Initiative (the "YouTube initiative"). Thirty-three videos were submitted, and three were selected by a committee as winners. To view the videos, go to www.amstat.org/youtubel/index.cfm.
- President-elect Bob Rodriguez reported that workgroups have been formed to support the four initiatives he plans for the coming year. Rodriguez will report on these initiatives in upcoming *Amstat News* issues.
- As it does at each meeting, the board heard reports on the status and well-being of the sections and chapters from the board representatives of those bodies. Both the Council of Chapters and Council of Sections governing boards meet regularly by conference call to manage issues of importance to the chapters and sections, and they meet in person at JSM and again in the winter to provide support and leadership.
- The board held an extended workshop-style discussion about the diversity of our membership with respect to the field of statistics and type of employment. The ASA is the "big tent for statistics," and the board worked to develop a better understanding of the diversity of statisticians (Who is in our big tent, and is it big enough?), how to meet the needs of the diverse statisticians in the big tent so they call it home, and how to make the tent a place where sectors can develop partnerships. Board members agreed we want to be an inclusive organization (a big tent with room for more) and there are many we are not reaching who could be included. This discussion will inform future board actions.
- Alan Karr, director of the National Institute of Statistical Sciences (NISS), presented his annual update to the ASA Board regarding the activities of NISS.
- The board heard a report regarding the excellent work being done by the Friends of Australasia outreach group in its first year of existence as an ASA entity.

The board next meets from November 18–19, 2011, in Alexandria, Virginia. ■

'Reverse' Time Capsule Kicks Off Preparations for 175th Anniversary Celebration

Ron Wasserstein, ASA Executive Director

As we look forward to celebrating the ASA's 175th anniversary, we invite you to participate in our "reverse" time capsule project.

A time capsule holds artifacts from a specific point in time and is meant to be opened at a later time to give a sense of "what life was like" at the earlier time. The ASA has a time capsule from its 150th anniversary in 1989 that will be opened in 2039, at the 200th anniversary celebration. The reverse time capsule will contain forecasts of or comments about the future, specifically regarding the year 2039, as viewed from the present. Thus, it will be the present perspective on the future. Mostly, however, it is a fun activity opened at the start of preparations for the 175th anniversary of the ASA.

To place your entries into the reverse time capsule, log in to ASA Members Only at www.amstat.org/membersonly and click on Reverse Time Capsule on the ribbon. You'll be presented with the opportunity to make the following types of contributions:

Click on **numeric forecasts** to make your predictions about specific items. When the reverse time capsule is opened in 2039, members with the best guesses will be rewarded with a lifetime membership in the ASA.

Click on **non-numeric forecasts** to submit your written or video predictions about the future of the statistics profession, the future of the ASA, or any other aspect of the future.

Similarly, click on **messages** to submit a written or video message to be read in 2039 by the membership of the American Statistical Association. What would you like future statisticians to know about the status of statistics, or about you, as of the present day?

Participants have the opportunity to allow their messages and non-numeric forecasts to be publicly viewable now. We think these entries will make fun and stimulating reading.

Again, this is all in good fun, and we hope you'll enjoy it. The serious work of planning for the 175th anniversary also is getting under way. President-elect Bob Rodriguez has appointed a steering committee to plan for the occasion. ASA Vice



President Christy Chuang-Stein is the chair of the committee, and you'll be hearing much more about this in the months ahead. ■

Papers Sought for *Journal of Statistical Research*

The *Journal of Statistical Research (JSR)*, the official journal of the Institute of Statistical Research and Training at the University of Dhaka, is accepting original or review articles for publication in a special volume on biostatistics. All papers must be received by June 30, 2012, and will go through a peer-review process.

JSR is the oldest and most-cited statistics journal in Bangladesh. Since its inception, it has been an excellent means of communicating statistical knowledge to those in developing nations in South Asia and beyond.

Abdus S. Wahed, associate professor of biostatistics at the University of Pittsburgh, will serve as the guest editor for the special issue. For details, visit www.isrt.ac.bd/node/1122 or www.pitt.edu/~wahed/amstat%20announcement.pdf.

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Tests: Tests on Contingency Tables, Correlation tests, Parametric tests for comparison of two samples (F, t, z, Levene, Bartlett), Comparison of two proportions, Non parametric Tests on two independent samples (Kolmogorov-Smirnov, Mann-Whitney, Wilcoxon) or two paired samples (Wilcoxon's signed-ranks test and the sign test), Non parametric Tests on k independent samples (Kruskal-Wallis' test) or k paired samples (Friedman's test); Goodness of fit tests after distribution fitting (Chi-square, Kolmogorov-Smirnov); Normality tests, Cochran-Armitage trend test, Cochran Q test, McNemar's test, Runs test... **Visualizing data:** Excel charting utilities, Plot transformers, Scatter plots, Parallel coordinates... Complementary modules include **Survival Analysis, Monte Carlo simulations and risk analysis, Time series analysis, Sensory data analysis, PLS Path modeling...**

ASA Accreditation Program Update

Ron Wasserstein, ASA Executive Director

Identifying tangible benefits for accredited members is the primary focus of a new subgroup of the ASA's Accreditation Committee. "The intrinsic benefits of accreditation to the profession of statistics and to individual members were the initial foci of discussion," notes Iain Johnstone, chair of the committee. "Now it is time to clearly identify additional, more tangible reasons why an individual would seek PStat status."

To accomplish this, Johnstone appointed an "accreditation programming subcommittee," chaired by Mary Batchler. Members of the subcommittee will work with currently and potentially accredited members to determine ways to add value to accreditation. They also will learn from our partner societies with established accreditation programs—Statistical Society of Canada, Royal Statistical Society, and Statistical Society of Australia, Inc. Send ideas to ASA Executive Director Ron Wasserstein at ron@amstat.org.

Members of the Accreditation Committee identified adding value as the essential next step in developing the ASA's accreditation program during its meeting at JSM. Committee members also reviewed the processes by which accreditation applications are evaluated and were generally pleased with the way the system has worked during the program's initial year.

An informal meeting for members interested in accreditation also was held at JSM. In an hour-long session, about 30 people heard presentations about the accreditation process

and why members are choosing to be accredited. Di Michelson, Robert Ploutz-Snyder, and Jeremy Jokinen talked about their experiences applying for accreditation and the benefits of having done so. Johnstone and Wasserstein updated attendees on how to apply and how the review process works.

To learn more about the Accreditation Committee's membership or the accreditation



processes—including the criteria for accreditation and how to apply—go to www.amstat.org/accreditation. ■

COMMITTEE ON NOMINATIONS

Call for Nominations: ASA President-elect and Vice President Candidates

Robert Starbuck, Committee on Nominations Chair

The ASA needs your help. Nominations are being sought for ASA president-elect and vice president candidates for the 2013 election year. Yes, the 2012 elections have yet to be held, but the Committee on Nominations needs time to evaluate nominations to propose the best possible slate of candidates in 2013 for these critical positions.

As a member of the ASA, you recognize the importance of leadership in our diverse, complex, and multidisciplinary field. You and all fellow ASA members deserve visionary leaders who can ensure our discipline has a voice at the table where appropriate, whether in academia; research firms; federal, state, or local government; or nonprofit organizations. This is why we need your input.

The president-elect will be nominated from business and industry, and the vice president from government (federal, state, local, or foreign). Think about your colleagues and associates who are members of the ASA and would make good candidates for these positions. Think about members who have helped run a conference or are active in your section or chapter. Then, nominate your choices for the 2014 president-elect and vice president by emailing Robert Starbuck, Committee on Nominations chair, at RRS49@nc.rr.com or Pam Craven, ASA executive secretary, at pam@amstat.org. The deadline for the nominations for these two ASA positions is February 1, 2012.

Though optional, it would help if you forwarded as much information about your nominee as possible. We will research each candidate thoroughly and discretely. Questions and suggestions may be directed to Starbuck.

Salary Survey of Business, Industry, and Government Statisticians

James Dias, Patricia Hall, and Varghese George

This year, the Biostatistics Consulting and Survey Center in the department of biostatistics at the Georgia Health Sciences University was contracted by the American Statistical Association to design and implement a survey of the association's nonacademic members in the United States employed by business, industry, or government. Members were asked to report their annual base salary (in dollars) and instructed to include bonuses, incentives, or

Table 1—Annual Salaries (\$1,000s) of Statisticians in Business, Industry, and Government

			Percentiles				
		n	10	25	50	75	90
Total Respondents		1,615	87.0	110.0	138.0	176.0	240.0
Employer	Federal Government	320	89.0	105.5	127.0	149.0	162.5
	State or Local Government	37	55.0	72.0	87.0	107.0	185.0
	For-Profit Business or Industry	964	97.0	120.0	150.0	200.0	265.0
	Nonprofit Organization	172	70.0	90.0	120.0	156.0	190.0
	Self Employed or Private Consultant	92	80.0	102.0	150.0	201.5	350.0
	Other	24	80.0	97.5	122.5	160.0	171.0
Geographic Region	South Atlantic (DE, DC, GA, FL, MD, NC, SC, VA, WV)	538	91.0	111.0	136.0	160.0	200.0
	Middle Atlantic (NJ, NY, PA)	285	100.0	125.0	163.0	220.0	300.0
	East North Central (IL, IN, MI, OH, WI)	174	80.0	102.0	132.5	180.0	234.0
	Pacific (AK, CA, HI, OR, WA)	232	87.0	105.0	140.0	185.0	260.0
	New England (CT, MA, ME, NH, RI, VT)	119	87.0	117.0	156.0	210.0	300.0
	West North Central (IA, KS, MN, MO, ND, NE, SD)	95	80.0	96.0	120.0	145.0	176.0
	Other (states not listed above)	165	75.0	93.0	121.0	155.0	200.0
Managerial Responsibility	No	930	80.0	100.0	125.5	152.0	197.0
	Yes	677	100.0	128.0	160.0	207.0	285.0
Gender	Female	524	82.0	102.0	126.5	159.5	200.0
	Male	1,082	90.0	116.0	145.0	186.0	250.0
Highest Degree	Bachelor's	30	54.0	75.0	134.5	156.0	168.0
	Master's	661	77.0	95.0	122.0	155.0	198.0
	Doctorate	919	100.0	122.0	150.0	200.0	285.0
Years Experience	0–2	38	59.0	75.0	91.0	115.0	150.0
	3–5	134	63.0	79.0	95.5	120.0	145.0
	6–10	214	84.0	96.0	116.5	140.0	162.0
	11–15	242	92.0	111.0	132.0	172.0	215.0
	16–25	407	97.0	120.0	147.0	195.0	250.0
	26+	551	105.0	130.0	158.0	200.0	287.0
Application Area or Type of Job	Pharmaceuticals	521	110.0	130.0	168.0	215.0	300.0
	Other Medical/Health-Related	372	76.0	94.0	120.0	149.0	188.0
	General Consulting	200	88.5	108.0	135.0	170.0	217.5
	Surveys/Marketing	80	92.0	117.0	136.5	159.0	202.5
	Other	439	84.0	102.0	130.0	160.0	220.0

other forms of monetary reward. Salary was “annualized” for part-time employed respondents. All salary statistics are reported as full-time equivalents in dollars per year. Salary information, in the form of percentiles, is for a 12-month period and has been rounded to the nearest \$500.

The ASA provided a member database of business, industry, and government statisticians. The database consisted of 4,933 members, 4,599 of whom had valid addresses. All members were invited to participate in the survey. The online survey was made available from April 6 to May 10. Responses were received from 1,802 individuals with valid addresses (39.2%). Of the remainder with valid addresses, 2,797 either refused or

did not respond (60.8%). Based on the responses received, it was determined that 155 individuals were not eligible to be included in the final analysis.

Those who were ineligible were either employed in academia, unemployed, not employed as a statistician, retired, or reported they did not meet the questionnaire’s definition of a statistician. Thirty-two individuals who were eligible and responded did not report salary information and were re-coded as “nonresponders.” When adjusted for delivery failure, eligibility, and nonresponse, 1,615 (1,802 - 155 - 32) eligible responses were received from an adjusted eligible total of 4,444 (4,599 - 155), for an adjusted response rate of 36.3%.

In the salary tables that follow, the 10th and 90th percentiles for table rows (categories) with fewer than 20 observations were suppressed. Also, all percentiles for table rows (categories) with fewer than 10 observations were suppressed.

Table 1 reports salary percentiles categorized by employer type, geographic region, managerial responsibility, gender, highest degree, years of experience, and application area or job type. Salary percentiles—cross-classified by years of experience, highest degree, and whether the respondent had managerial responsibility—are given in Table 2. Note that there were too few respondents with bachelor’s as their highest degree to be

Table 2—Annual Salaries (\$1,000s) of Statisticians in Business, Industry, and Government Categorized by Years of Experience, Highest Degree, and Managerial Responsibility

Years Experience	Highest Degree*	n	Percentiles				
			10	25	50	75	90
No Managerial Responsibility							
0-5	Master’s	67	53.0	68.0	80.0	92.0	106.0
	Doctorate	61	79.0	90.0	107.0	124.0	136.0
6-10	Master’s	52	76.0	86.0	91.5	115.0	125.0
	Doctorate	92	94.0	107.0	123.0	149.5	162.0
11-15	Master’s	72	82.0	91.5	111.0	127.5	150.0
	Doctorate	67	110.0	120.0	134.0	170.0	215.0
16-25	Master’s	91	88.0	101.0	122.0	145.0	164.0
	Doctorate	108	105.0	124.0	145.0	170.0	210.0
26+	Master’s	109	85.0	115.0	131.0	165.0	191.0
	Doctorate	173	107.0	130.0	150.0	200.0	287.0
Managerial Responsibility							
0-5	Master’s	15		61.0	90.0	120.0	
	Doctorate	25	90.0	110.0	130.0	155.0	185.0
6-10	Master’s	35	80.0	97.0	115.0	140.0	154.0
	Doctorate	30	99.5	110.0	131.0	175.0	235.0
11-15	Master’s	32	92.0	104.5	127.5	163.0	180.0
	Doctorate	66	115.0	135.0	172.0	200.0	260.0
16-25	Master’s	86	102.0	123.0	150.0	200.0	250.0
	Doctorate	112	125.0	149.0	188.5	250.0	350.0
26+	Master’s	89	99.0	135.0	160.0	190.0	240.0
	Doctorate	161	121.0	152.0	194.0	260.0	400.0

*There were too few respondents with a bachelor’s degree to include in this table.

Table 3—Annual Salaries (\$1,000s) of Statisticians in Business, Industry, and Government with a Bachelor’s Degree, Categorized by Years of Experience

Years Experience	n	Percentiles		
		25	50	75
0–25	16	64.0	94.5	148.5
26+	14	133.0	149.5	156.0
Overall	30	75.0	134.5	156.0

Table 4—Annual Salaries (\$1,000s) of Statisticians in Business, Industry, and Government Categorized by Employer and Highest Degree

Employer	Highest Degree	n	Percentiles				
			10	25	50	75	90
Federal Government	Bachelor’s	12		134.5	151.5	156.0	
	Master’s	113	80.0	91.0	115.0	137.0	155.0
	Doctorate	194	98.0	110.0	130.0	150.0	170.0
State or Local Government	Bachelor’s	1					
	Master’s	17		72.0	85.0	99.0	
	Doctorate	19		69.0	98.0	125.0	
For-Profit Business or Industry	Bachelor’s	10		74.0	112.0	147.0	
	Master’s	416	86.0	105.0	130.5	165.0	205.0
	Doctorate	535	110.0	130.0	168.0	224.0	306.0
Nonprofit Organization	Bachelor’s	5					
	Master’s	66	57.0	75.0	87.5	105.0	132.0
	Doctorate	101	104.0	120.0	145.0	175.0	204.0
Self-Employed or Private Consultant	Bachelor’s	1					
	Master’s	34	40.0	90.0	122.5	180.0	203.0
	Doctorate	56	85.0	122.5	180.0	250.0	400.0
Other	Bachelor’s	1					
	Master’s	11		95.0	107.0	135.0	
	Doctorate	12		94.0	155.5	163.5	

Table 5—Annual Salaries (\$1,000s) of Statisticians in Business, Industry, and Government Categorized by Employer, Application Area or Type of Job, and Highest Degree

Employer	Application Area or Type of Job	Highest Degree*	n	Percentiles				
				10	25	50	75	90
Federal Government	Pharmaceuticals	Master's	3					
		Doctorate	19		116.0	125.0	149.0	
	Other Medical/Health-Related	Master's	28	80.0	85.5	97.5	122.0	147.0
		Doctorate	78	96.0	113.0	134.0	153.0	183.0
	General Consulting	Master's	25	80.0	91.0	116.0	135.0	145.0
		Doctorate	20	99.0	112.0	130.0	145.0	156.0
	Surveys/Marketing	Master's	22	110.0	120.0	136.5	150.0	156.0
		Doctorate	15		110.0	136.0	156.0	
	Other	Master's	34	69.0	90.0	108.0	137.0	156.0
		Doctorate	62	95.0	107.0	129.0	155.0	169.0
For-Profit Business or Industry	Pharmaceuticals	Master's	171	105.0	120.0	148.0	180.0	210.0
		Doctorate	280	124.0	145.0	190.0	250.0	325.0
	Other Medical/Health-Related	Master's	65	71.0	91.0	117.0	141.0	164.0
		Doctorate	58	95.0	120.0	140.0	200.0	250.0
	General Consulting	Master's	49	83.0	102.0	134.0	160.0	240.0
		Doctorate	48	110.0	128.5	157.5	209.5	315.0
	Surveys/Marketing	Master's	18		104.0	127.5	165.0	
		Doctorate	14		125.0	137.5	210.0	
	Other	Master's	113	80.0	96.0	125.0	155.0	193.0
		Doctorate	135	103.0	120.0	148.0	200.0	320.0
Other (State/Local Government, Nonprofit Organization, Self-Employed, Private Consultant, Other Employers not listed above)	Pharmaceuticals	Master's	10		110.0	135.0	203.0	
		Doctorate	31	110.0	133.0	200.0	400.0	480.0
	Other Medical/Health-Related	Master's	66	56.0	75.0	87.0	107.0	145.0
		Doctorate	71	89.0	105.0	133.0	159.0	186.0
	General Consulting	Master's	17		74.0	100.0	125.0	
		Doctorate	32	100.0	120.0	170.0	197.0	200.0
	Surveys/Marketing	Master's	2					
		Doctorate	5					
	Other	Master's	33	63.0	78.0	91.0	150.0	205.0
		Doctorate	48	67.0	97.0	139.0	167.5	235.0

*There were too few respondents with a bachelor's degree to include in this table.

included in Table 2. Table 3, however, reports salary percentiles categorized by years of experience for those with a bachelor's as their highest degree. Table 4 reports salary percentiles cross-classified by employer type and highest degree. Salary percentiles cross-classified by employer type, application area or job type, and highest degree are given in Table

5 for those with a master's or doctorate degree.

A final report of the survey is available at www.svsu.edu/orgs/spaig. In addition to the salary tables presented here, the final report details the survey design, its administration and implementation, survey response rate, respondent characteristics, and various descriptive statistics for

selected survey items. The survey questionnaire and email invitation/reminder message also are appended to the final report.

The survey was conducted under the directives of Keith Crank, ASA research and graduate education manager, and the Statistical Partnerships among Academe, Industry, and Government Committee. ■

JSM 2011

Highlights & Trends

We will not know for several months what you, the participants, thought of the technical program. I do hope you completed your questionnaires if you were selected. Response rates dropped sharply for the 2010 attendee survey—26% is pretty bad for a profession that loves numbers. This, of course, is our main tool for monitoring how we are doing and deciding what alterations to consider for future years.

Although I loved the job, I was not looking forward to Florida in August. I loved Vancouver and wish we could meet there every year. A number of people I tried to recruit for sessions declined because of the site. As it turned out, I enjoyed swimming in the evenings out in the shallows, but I decided to see how well attendance is predicted by historical average daily high in August. It turns out it is a powerful predictor. For every one degree of Fahrenheit, we lose 43 attendees.

I first fit a model for attendance with a linear time trend

and indicator variables for Washington, DC, and Canada. Attendance always spikes in DC, while there are many difficulties for U.S. federal employees and green card holders getting to Canada. However, attendance is higher in Canada. This is because of the temperature advantage in August. When I plot the residuals from this model against the temperature variable and smooth the results, a very clear pattern emerges (Figure 1). We lose hundreds of attendees by booking convention centers in sweltering cities.

Even those who do attend don't like being someplace hot in August. Satisfaction with the convention city was far lower for Salt Lake City than for Vancouver or Seattle. For Salt Lake, 37% were highly satisfied with the site selection. The comparable figures for Seattle and Vancouver were 86% and 83%, respectively. Given this pattern, I was pleased to learn that policies for the selection of convention cities have changed. The next few years look very pleasant:

San Diego, Montréal, Boston, Seattle, and Chicago.

Another interesting issue about JSM is the growth in the ratio of technical sessions to attendees (Figure 2). A growing proportion of attendees are presenting. We set a new record in Miami Beach for this ratio. We had 600 fewer attendees than Vancouver, but only 11 fewer technical sessions. Figure 3 shows submitted abstracts per attendee. It doesn't go back as many years, but shows a major bump in the last two.

I don't think this is a healthy trend for our societies. We need to rent larger convention centers to host all those lectures, which puts upward pressure on the registration fee for all and makes for longer distances to walk between sessions. If there were some way to encourage people to attend without presenting, it would help hold the registration fee in check.

For years, we have been trying to encourage poster presentations,



David R. Judkins
JSM 2011
Program Chair



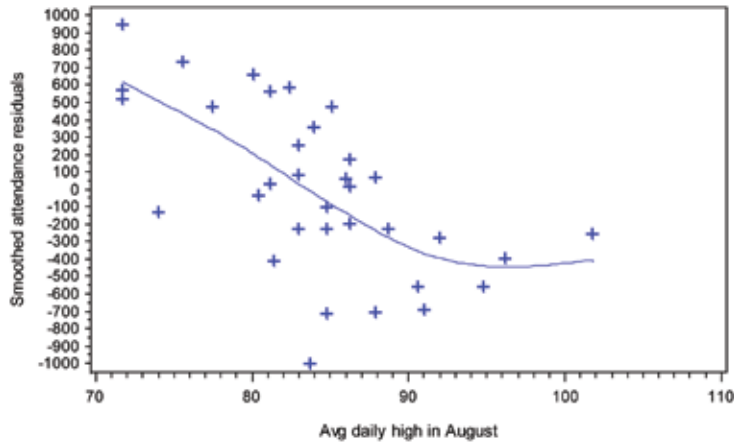


Figure 1. Attendance residuals in terms of average daily high

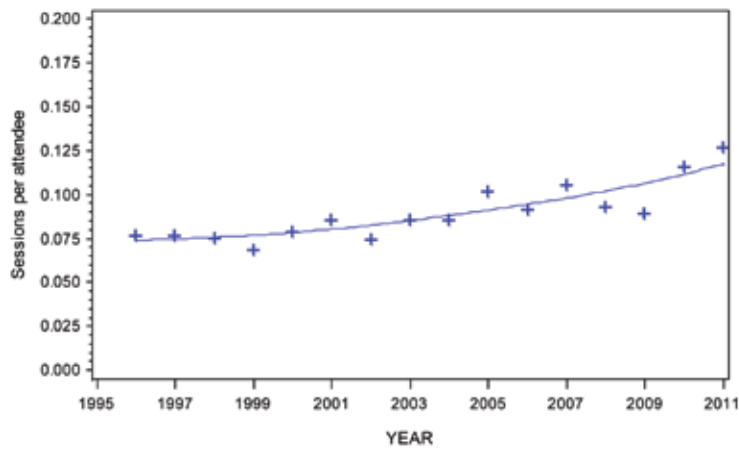


Figure 2. Sessions per attendee by year

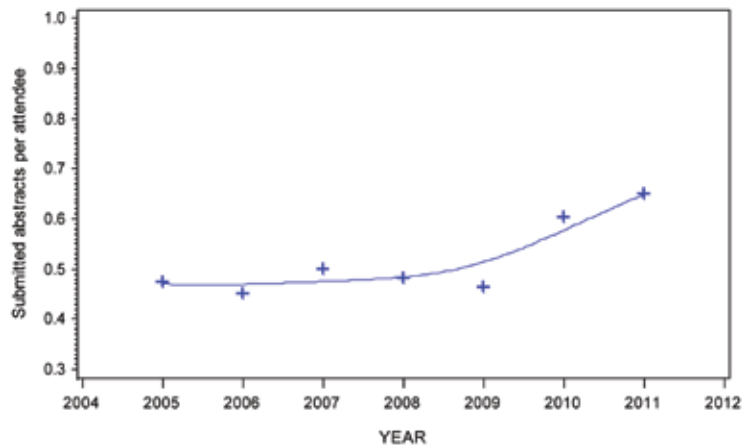


Figure 3. Submitted abstracts per attendee by year

Many Thanks

I want to thank the Committee on Meetings and 2011 ASA President Nancy Geller for entrusting me with this job. I really enjoyed the experience. Next, I'd like to thank the General Methodology chairs, Andrew Gelman and Brian Wiens; the poster chair, Benmei Liu; the whole JSM committee; and ASA staff for working so hard with me to make the technical program in Miami Beach a success.

since they require less space, but the attendee survey shows that only about one-third of attendees view the posters. This compares to 80%–85% percent who attend at least one invited session; 85%–90% who attend at least one contributed session; 10%–20% who attend introductory overview lectures, late-breaking sessions, and college bowl sessions; and 85%–90% who visit the exhibit hall. If most attendees will not view the posters, then we cannot expect them to be a popular choice. Given that space for a poster costs much less than space for a lecture, we probably need to add free goodies of some type to the poster sessions.

The other popular idea is to referee papers. That would be a lot of work and tend to favor well-known authors. It seems the easiest thing would be to tax contributed paper presenters with a high registration fee. So far, this idea has gone over like a lead balloon. Something needs to be done, though. If this trend continues for many more years, we are likely to run out of convention centers that can satisfy our need for lecture hall space. ■

Many Honored at Presidential Address, Awards Ceremony



Fuller



Schenker



Smith



Starbuck

Highlighting the ASA Presidential Address and Awards Ceremony during the Joint Statistical Meetings in Miami, Florida, were the announcement of the Founders Award winners and the official induction of 58 ASA Fellows. Congratulations to all.

Founders

The Founders Award was given to Wayne Fuller, Nat Schenker, William B. Smith, and Bob Starbuck for extended, outstanding service to the statistics profession through a variety of leadership roles.

Wayne Fuller, Iowa State University, for being an outstanding role model and a mentor to many ASA members for more than 50 years; for his exemplary service to ASA through his leadership on various committees—including Strategic Planning, Review of Long-Range Financial Policy, Census Blue Ribbon Panel, Appointments to Federal Statistics Positions, Selection of ASA Fellows and Awards, and USDA Advisory—and for his invaluable contributions to a number of editorial boards, sections, and the board of directors.

Nat Schenker, CDC, for outstanding leadership and service well above the call of duty during two terms on the ASA Board, including one term as vice president; for his leadership as JSM program chair; for chairing the JSM Task Force, which had a significant positive impact on JSM; for chairing the Meetings Workgroup that led to the creation of the new Conference on Statistical Practice; for serving as chair of the Government Statistics Section; and for service on the Committee on Publications.

William Smith, Lecot, Inc., for exceptional service as executive director of the ASA from 2001–2007; for providing extraordinarily skillful leadership of the ASA's acquisition and renovation of a new headquarters; for reorganizing the ASA office for better coordination of statistical education activities; for expanding and improving the Joint Statistical Meetings; for overseeing the provision of electronic journal access to ASA members; and for obtaining federal funding for ASA programs.

Bob Starbuck, for his commitment to partnerships among industry, academe, and

government, as demonstrated by his commitment to the SPAIG Committee and other ASA entities that has spanned two decades; for his service to the Biopharmaceutical Section in several roles, including as chair; for his leadership of the Deming Lectureship Committee; for his contributions to the development of the undergraduate statistics education guidelines; and for his service to and leadership of the Committee on Fellows, including his regular reporting of data about the Fellows process to members.

Fellows

Each year, ASA Fellows are nominated by the membership and selected by the ASA Fellows Committee, chaired this year by Starbuck. The number of Fellows named is limited to no more than one-third of 1% of the active ASA member total. The following 58 ASA Fellows were inducted this year:

Keith A. Baggerly
MD Anderson Cancer Center

Kenneth A. Bollen
The University of North Carolina at Chapel Hill



Fifty-eight ASA members received the honor of Fellow in 2011.

Tim Bollerslev
Duke University

Robert Francis Bordley
General Motors

Connie M. Borrer
Arizona State University West

Tianxi Cai
Harvard University

Joseph C. Cappelleri
Pfizer Inc.

Ivan Siu Fung Chan
Merck & Co.

James J. Cochran
Louisiana Tech University

Bruce A. Craig
Purdue University

Michael R. Elliott
University of Michigan

Brenda L. Gaydos
Eli Lilly and Company

Amanda L. Golbeck
University of Montana

Paul Gustafson
University of British Columbia

J. Michael Hardin
University of Alabama

Dominique M. A. Haughton
*Bentley University and Université
Toulouse I*

David M. Higdon
Los Alamos National Laboratory

Susan Galloway Hilsenbeck
Baylor College of Medicine

Alan D. Hutson
University at Buffalo, SUNY

J. T. Gene Hwang
Cornell University

Patricia A. Jacobs
Naval Postgraduate School

Zhezhen Jin
Columbia University

Grace E. Kissling
*National Institute of
Environmental Health Sciences*

Eric D. Kolaczyk
Boston University

Kalimuthu Krishnamoorthy
*University of Louisiana at
Lafayette*

Anthony Y. C. Kuk
National University of Singapore

Kenneth L. Lange
*University of California at
Los Angeles*

Peter J. Lenk
University of Michigan

Runze Li
The Pennsylvania State University

Faming Liang
Texas A&M University

John C. Liechty
Penn State University

Aiyi Liu
*National Institute of Child Health
and Human Development*

Ying Lu
*VA Cooperative Studies Program
Palo Alto Coordinating Center
and Stanford University*

Esfandiar Maasoumi
Emory University

Ranjan Maitra
Iowa State University

Matthew Stuart Mayo
*University of Kansas
Medical Center*

Jeffrey S. Morris
MD Anderson Cancer Center

Christopher J. Nachtsheim
University of Minnesota

Deborah A. Nolan
University of California

Dimitris N. Politis
*University of California at
San Diego*

J. Sunil Rao
University of Miami

Jerome P. Reiter
Duke University

Charles J. Rothwell
NCHS/CDC

Venkatraman E. Seshan
MSKCC

Thomas A. Severini
Northwestern University

Arvind K. Shah
Merck Research Laboratories

Lori A. Thombs
University of Missouri

Paul A. Tobias
Statistical Consultant

Julia Volaufova
LSU Health Sciences Center

Sue-Jane Wang
CDER, FDA

Michel Wedel
University of Maryland

Herbert I. Weisberg
Correlation Research, Inc.

Robert G. Wilkinson
The Lubrizol Corporation

Fred A. Wright
The University of North Carolina

Minge Xie
Rutgers, The State University of New Jersey

Lijian Yang
Michigan State University

Donglin Zeng
The University of North Carolina

Hongtu Zhu
The University of North Carolina at Chapel Hill

Many more people were honored for their contributions to various causes that advance the field



Laird



Wei



Wellner



Murphy

of statistics. Following is a list of awards and recipients:

Samuel S. Wilks Memorial Award

The Samuel S. Wilks Memorial Award was established in 1964 to honor the memory and distinguished career of Sam Wilks by recognizing outstanding contributions to statistics that carry on the spirit of his work. The

2011 Wilks award winner is **Nan M. Laird** of Harvard University School of Public Health. She was honored for her pioneering work on the EM algorithm, which set the foundation for many subsequent advances in computational statistics and biology.

Gottfried E. Noether Awards

The Noether awards were established in 1999 by the wife and daughter of the late Gottfried Emanuel Noether of the University of Connecticut as a tribute to his memory. They recognize distinguished researchers and teachers and support research in nonparametric statistics. The Gottfried E. Noether Young Researcher Award winner for 2011 is **Ying Wei**, from Columbia University, for outstanding early career contributions to nonparametric statistics. The Gottfried E. Noether Senior Scholar Award winner for 2011 is **Jon Wellner**, from the University of Washington, for his outstanding contributions to the theory, application, and teaching of nonparametric statistics.

Statistics in Chemistry Award

The Statistics in Chemistry Award recognizes outstanding collaborative efforts between statisticians and chemists. While this is a section award, the board of directors grandfathered it in 1995 for presentation at the ASA Presidential Address and Awards Ceremony. The 2011 Statistics in

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Raftery



Kutner



Everson

Chemistry Award was presented to **Thomas Brendan Murphy**, **Nema Dean**, and **Adrian E. Raftery** for their paper “Variable Selection and Updating in Model-Based Discriminant Analysis for High-Dimensional Data with Food Authenticity Applications,” published in *Annals of Applied Statistics*.

Outstanding Statistical Application Award

Each year, the ASA recognizes a paper that is an outstanding application of statistics in the physical, biological, or medical sciences. This year’s winners are **Adrian Raftery**, **Miroslav Kárný**, and **Pavel Ettler** for extending Bayesian methods for model uncertainty to temporally evolving systems and showing how these ideas can be successfully applied to solving a challenging problem in a continuous manufacturing system.

Edward C. Bryant Scholarship Award

The Bryant scholarship trust is a permanent scholarship fund endowed by Westat to honor its cofounder and long-time leader, Edward C. Bryant. The award honors an outstanding graduate student who is studying survey statistics. The 2011 scholarship recipient is **Anne-Sophie Charest** from Carnegie Mellon University.

W. J. Dixon Award for Excellence in Statistical Consulting

Established through a gift from the family of William Dixon, this award recognizes outstanding contributions to the practice of statistical consulting. The 2011 award went to **Michael Kutner** of Emory University in recognition of his long and distinguished career as a collaborative biostatistician, his contributions to instruction in applied linear models, and his widespread influence and advocacy for high standards in statistical applications in the medical sciences.

W. J. Youden Award

The W. J. Youden Award in Interlaboratory Testing was established in 1985 to recognize the authors of publications that make outstanding contributions to the design and/or analysis of interlaboratory tests or describe ingenious approaches to the planning and evaluation of data from such tests. The 2011 Youden Award went to **Ryan Browne**, **Jock MacKay**, and **Stefan Steiner** in recognition of their paper, “Leveraged Gauge R&R Studies,” published in *Technometrics*.

Waller Education Award

Retired ASA Executive Director Ray Waller and his wife, Carolyn, established the Waller Education Award in 2002 to recognize a statistics teacher early in his/her career for excellence and innovation in teaching introductory statistics at the undergraduate level. The 2011 Waller award winner is **Michelle Everson** in recognition of her outstanding contributions to and innovation in the teaching of elementary statistics.

SPAIG Award

The ASA established the SPAIG Award in 2002 to recognize outstanding partnerships between academe and business, industry, and government organizations and to promote new partnerships. It is the only ASA award that recognizes organizations. This year’s SPAIG award was given to **Nationwide Center for Advanced Customer Insights**, **The Ohio State University**, and **Insights and Analytics Nationwide Insurance Company**.

Gertrude M. Cox Scholarships

Tanya Pamela Garcia of Texas A&M University and **Emma Rudié** of Stanford University are the winners of the 22nd annual Gertrude M. Cox scholarships. Since 1989, the Cox scholarship has been awarded by the ASA Committee on Women in Statistics and the Caucus for Women in Statistics to encourage women to enter statistically oriented professions. The following women were awarded honorable mentions: **Viktoriya Krakovna** of the University of Toronto; **Emily Mitchell** of Emory University; **Ashley Petersen** of the University of Washington; and **Aleksandra M. Stein** of the University of Nebraska, Lincoln. ■

Visit <http://magazine.amstat.org/blog/2011/10/01/jsm2011pics> to view more pictures from JSM 2011.

COMMITTEE OF PRESIDENTS OF STATISTICAL SOCIETIES

COPSS Honors Statisticians

Visit *Amstat News* online at <http://magazine.amstat.org> to read an interview with COPSS Presidents' Award winner Nilanjan Chatterjee.

Members of the Committee of Presidents of Statistical Societies (COPSS) are pleased to announce the 2011 awards, which were presented to the winners at JSM in Miami Beach, Florida, by COPSS president, Xihong Lin.

The winner of the Presidents' Award is **Nilanjan Chatterjee** of the National Cancer Institute for outstanding contributions to the statistical sciences by ingenious methodological research with

applications in epidemiology and genetics, including studies of gene-environment interactions, disease heterogeneity, and genome-wide association studies; for fundamental contributions to the theory of case-control studies and complex retrospective sampling designs; for demonstrating leadership and a vision as a statistical scientist by actively collaborating in wide-ranging studies of cancer epidemiology and genetics and concurrently

maintaining a vigorous methodological research program closely tied to cutting-edge scientific issues; and for exceptional mentoring and service to the profession and to the National Cancer Institute.

Chatterjee is also the winner of the Snedecor award for his contributions to biometric research and his paper, "Shrinkage Estimators for Robust and Efficient Inference in Haplotype-Based Case-Control Studies," published in the *Journal of the American Statistical Association*.

The F. N. David award was presented to **Marie Davidian** of North Carolina State University for important contributions to the development of methods for analyzing data from longitudinal studies and clinical trials and for outstanding leadership and dedication to the statistical profession.

The 2011 Fisher Lecturer was **C. F. Jeff Wu** of Georgia Institute of Technology. He was chosen for fundamental contributions to the planning, analysis, and interpretation of statistical studies that have had a profound impact on the practice of statistics, especially in engineering. This includes significant results on resampling methods and theory of experimental design and pioneering work in industrial statistics that has changed the way statistical studies are used to optimize products and processes. His lecture was titled "Post-Fisherian Experimentation: From Physical to Virtual."

Award criteria and nominating procedures are available at www.niss.org/copss. ■

Teachers' Workshops Held at JSM

Katherine Halvorsen, MWM Program Chair, and Rebecca Nichols, ASA Acting Director of Education

The American Statistical Association sponsored a two-day Meeting Within a Meeting (MWM) statistics workshop for middle- and high-school mathematics and science teachers on August 2 and 3 in conjunction with the 2011 Joint Statistical Meetings in Miami Beach, Florida. This year, 28 teachers attended the workshop focused on high-school statistics content and 18 teachers attended the workshop that addressed statistical concepts taught in middle school. The MWM workshops emphasize the growth of statistical literacy and thinking as teachers explore problems that require them to formulate questions; collect, organize, analyze, and draw conclusions from data; and apply basic concepts of probability. The teachers who attended MWM and members of the ASA staff will communicate through email and webinars archived at www.amstat.org/education/webinars during the follow-up program.

Some participants of the MWM high-school session attended the Beyond AP Statistics (BAPS) Workshop (www.amstat.org/education/baps) on August 3, also held in conjunction with JSM.

All teachers attending MWM receive a certificate of participation. Some also will receive 0.5 credit hour through Adams State College for attending one day of the workshop or 1.0 credit hour for attending both days. MWM participants also received complimentary passes to attend statistics education sessions.

MWM 2012 will take place in San Diego, California, jointly with JSM. Questions should be directed to Rebecca Nichols, ASA acting director of education, at rebecca@amstat.org or (703) 684-1221, Ext. 1877.

Detailed information about this year's workshops can be found online at <http://magazine.amstat.org>.

SAMSI Offers Programs for Statisticians

The Statistical and Applied Mathematical Sciences Institute (SAMSI) started its 2011–2012 program on uncertainty quantification (UQ) in July with a summer school in collaboration with Sandia National Laboratories; however, activities on UQ will take place all year at SAMSI. In conjunction with these, the recently formed SIAM UQ activity group will hold its first UQ conference in Raleigh from April 2–4, 2012, in cooperation with SAMSI, the American Statistical Association, and the United States Association for Computational Mechanics (USACM).

Also on tap is a program organized by Deepak Agarwal of Yahoo, Daryl Pregibon of Google, and David Banks of Duke University on computational advertising (CA), a new field that stems from mathematical research linked to algorithm development for page ranking, information retrieval, queries, auctions, and search in the context of Internet monetization. A two-week program on CA will be held from June 25 to July 7, 2012, with nonlocal continuum models being investigated from June 25–29. These models are increasingly being considered in mathematical, scientific, and engineering circles to model singular or anomalous behavior such as cracks and fracture in solids and, more generally, to develop multi-scale models.

Plans also are under way for the 2012–2013 SAMSI programs, for which ASA members will have numerous ways to get involved. Financial support is available for visiting researchers to be residents at SAMSI for one month to one year. Also, special opportunities exist for young researchers, and several postdoctoral positions will be funded for each SAMSI program. Dedicated workshops will allow graduate and upper-level undergraduate students to learn about the latest research and applications in the statistical and mathematical sciences. All involved researchers will have chances to broaden their interests and skill sets, participate in cutting-edge interdisciplinary projects, and make new connections. New researchers and members of under-represented groups are especially encouraged to participate.

The 2012–2013 programs include the following:

Data-Driven Decisions in Health Care

This program will focus on mathematical and statistical issues related to evidence-based health care decisionmaking. A first principal thrust is operations research modeling in health care with an emphasis on mathematical modeling and simulation

(e.g., discrete-event and agent-based simulations) as evaluation tools. A second, more statistically oriented theme is comparative effectiveness research to determine what methods, surgeries, medications, and behavioral modifications work for whom and for which medical problems.

Statistical and Computational Methodology for Massive Data Sets

This program will focus on challenges posed by massive data sets. Data acquisition rates on the order of gigabytes per second necessitate innovative approaches toward computing environments, analysis, and algorithms. Techniques developed for small or moderate-sized data sets simply do not translate to modern massive data sets. Research foci will include inference; large-scale nonlinear optimization; online streaming and sketching; imaging; data visualization; systems and architectures; and applications to astronomy, high-energy physics, and the environment.

For more information about any of the SAMSI activities, visit www.samsi.info. ■

The ASA's Popular Web-Based Learning Program Is Now Available Anytime, Anywhere

LearnSTAT OnDemand

This month's featured LearnSTAT OnDemand offering is "Dual Frame Theory Applied to Landline and Cell Phone Surveys," presented by J. Michael Brick on November 10, 2009. For more information and to register for this recorded webinar, please visit www.amstat.org/education/learnstat/index.cfm.

The ASA Fellow Award—Revisited

Robert Starbuck, ASA Fellows Committee Chair

The 2011 ASA Fellow awards were presented at JSM in Miami Beach, Florida. Here, I present a brief update to previous articles on this subject appearing in *Amstat News*. A few corrections have been made to previous counts of Fellow nominees and awardees.

Employment Sector

In the range of years shown, the percentages of ASA members by employment sector have remained relatively stable: 42% Academe, 47% Business/Industry, and 11% Government.

The counts of ASA Fellow awards given by employment sector since 2004 are presented in Table 1 and Figure 1.

Table 1—Counts and Percentages of ASA Fellow Awards

Year	Employment Sector			Total
	Academe	Business/Industry	Government	
2004	36 (64.3)	11 (19.6)	9 (16.1)	56
2005	38 (67.9)	8 (14.3)	10 (17.9)	56
2006	50 (83.3)	5 (8.3)	5 (8.3)	60
2007	37 (62.7)	11 (18.6)	11 (18.6)	59
2008	32 (60.4)	13 (24.5)	8 (15.1)	53
2009	36 (63.2)	15 (26.3)	6 (10.5)	57
2010	43 (81.1)	5 (9.4)	5 (9.4)	53
2011	45 (77.6)	8 (13.8)	5 (8.6)	58

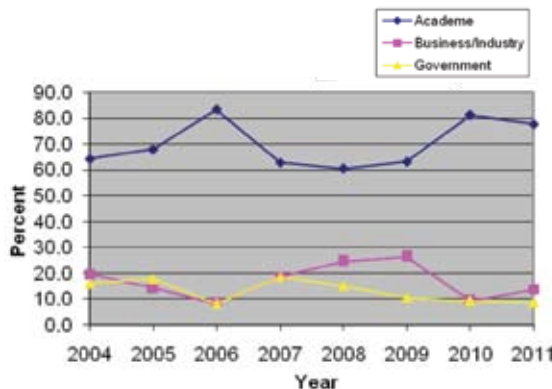


Figure 1. Percentage of ASA Fellows awarded by employment sector

The percentages of Fellows awarded by employment sector relative to the percentages of ASA membership by sector are shown in Figure 2.

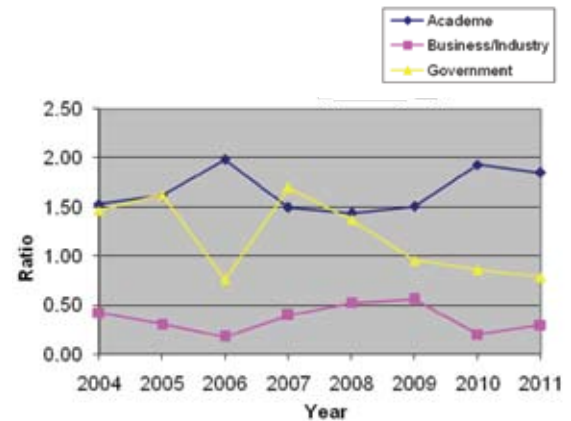


Figure 2. Percentage of ASA Fellows awarded / percentage of ASA membership by employment sector

The counts and percentages of Fellow nominations by employment sector are shown in Table 2. The number of nominations from business/industry was the lowest in the seven years included in this report.

Table 2—Counts and Percentages of ASA Fellow Nominations

Year	Employment Sector			Total
	Academe	Business/Industry	Government	
2004	44 (58.7)	16 (21.3)	15 (20.0)	75
2005	51 (57.3)	22 (24.7)	16 (18.0)	89
2006	81 (73.0)	19 (17.1)	11 (9.9)	111
2007	79 (65.8)	22 (18.3)	19 (15.8)	120
2008	60 (64.5)	18 (19.4)	15 (16.1)	93
2009	59 (62.1)	23 (24.2)	13 (13.7)	95
2010	71 (72.4)	13 (13.3)	14 (14.3)	98
2011	76 (72.4)	18 (17.1)	11 (10.5)	105

So, how have the nominations fared in each of the employment sectors? As shown in Table 3 and Figure 3, nominations submitted this year from the business/industry and government sectors did not fare as well as nominations from academe.

Table 3—Percentages of Successful ASA Fellows Nominations

Year	Employment Sector		
	Academe	Business/ Industry	Government
2004	81.8	68.8	60.0
2005	74.5	36.4	62.5
2006	61.7	26.3	45.5
2007	46.8	50.0	57.9
2008	53.3	72.2	53.3
2009	61.0	65.2	46.2
2010	60.6	38.5	35.7
2011	59.2	44.4	45.5

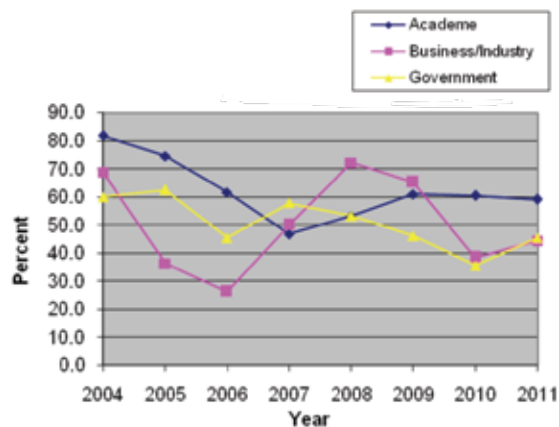


Figure 3. Percentage of successful ASA Fellows nominations by employment sector

Gender

The membership of the ASA has changed significantly in regard to the percentages of females and males, as illustrated in Table 4 and Figure 4. The table looks at the current ASA membership and subsets that joined the ASA in ranges of previous years.

Table 4—Percentages of ASA Membership by Gender

Current ASA Members	Female	Male
Joined ASA ≤ 1985	17	83
Joined ASA ≤ 1990	20	80
Joined ASA ≤ 1995	22	78
Joined ASA ≤ 2000	23	77
All	32	68

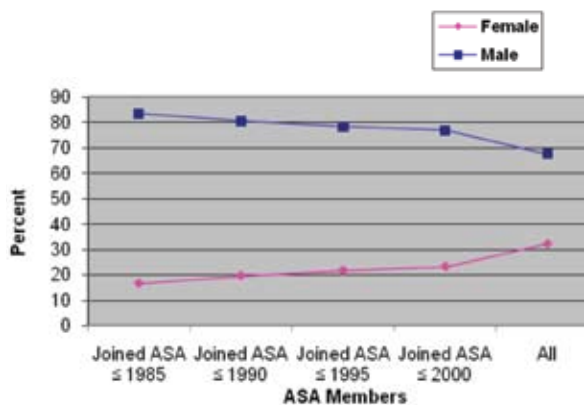


Figure 4. Percentages of current ASA members by gender

Assuming the number of departures from ASA membership has been proportional to gender (i.e., females and males are equally likely to discontinue or retain ASA membership), there has been a noticeable increase in the percentage of female members.

The ASA Fellow Award is almost always given to ASA members who have reached mid-career, and as such, the gender percentages of ASA membership that are appropriate reference points for years 2004–2011 are those reflecting members who joined the ASA on or before 1994–2000. Thus, the relevant reference percentages for females for Fellow nominations and awards are in the 20% to 23% range.

The counts and percentages by gender of ASA Fellow nominations in 2004–2011 are presented in Table 5.

Table 5—Counts and Percentages of ASA Fellow Nominations by Gender

Year	Female	Male	Total
2004	14 (18.7)	61 (81.3)	75
2005	24 (27.0)	65 (73.0)	89
2006	25 (22.5)	86 (77.5)	111
2007	22 (18.3)	98 (81.7)	120
2008	16 (17.2)	77 (82.8)	93
2009	12 (12.6)	83 (87.4)	95
2010	24 (24.5)	74 (75.5)	98
2011	19 (18.1)	86 (81.9)	105

The percentages of female nominees have been slightly below the reference percentages for five of the eight years, and were substantially below in 2009.

The counts and percentages by gender of ASA Fellow awards in 2004–2011 are presented in Table 6 and the percentages are presented in Figure 5.

Table 6—Counts and Percentages of ASA Fellow Awards by Gender

Year	Female	Male	Total
2004	13 (23.2)	43 (76.8)	56
2005	15 (26.8)	41 (73.2)	56
2006	11 (18.3)	49 (81.7)	60
2007	14 (23.7)	45 (76.3)	59
2008	11 (20.8)	42 (79.2)	53
2009	7 (12.3)	50 (87.7)	57
2010	17 (32.1)	36 (67.9)	53
2011	12 (20.7)	46 (79.3)	58

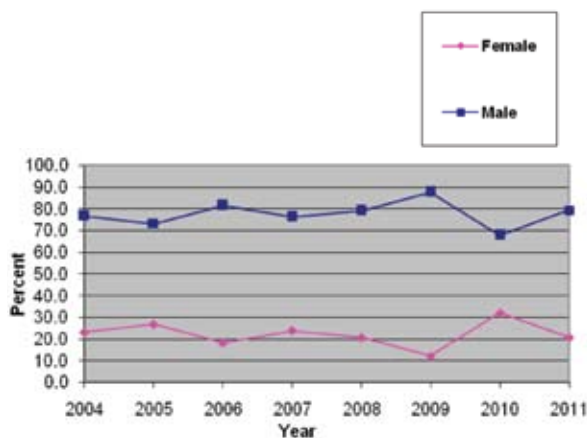


Figure 5. Percentage of ASA Fellows awarded by gender

The percentages of female Fellow awardees have been generally reflective of the reference percentages. As shown in Table 7 and Figure 6, the decline in the percentage of female Fellow awardees in 2009 was due to the lower percentage of female Fellow nominations. For nominees, the average chance of success is somewhat higher for females.

Table 7—Percentage of Successful ASA Fellow Nominations by Gender

Year	Female	Male
2004	92.9	70.5
2005	62.5	63.1
2006	44.0	57.0
2007	63.6	45.9
2008	68.8	54.5
2009	58.3	60.2
2010	70.8	48.6
2011	63.2	53.5
Mean	65.5	56.7

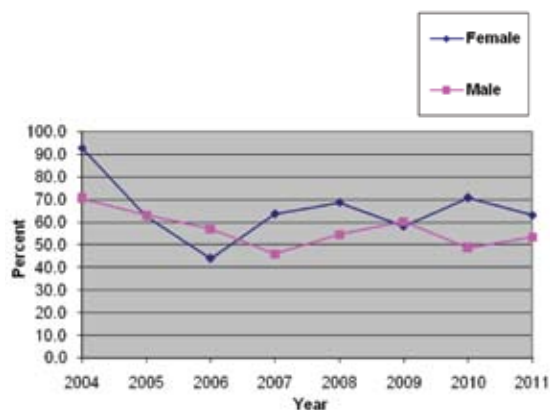


Figure 6. Percentage of successful ASA Fellow nominations by gender

Conclusion

The number of Fellow nominations from a given employment sector or gender is a key factor in determining the number of awards from that sector. The other obvious key factor is the quality of the nominations. To increase the number of Fellow awards in an employment sector or gender to achieve parity in the percentages of awards relative to the percentages of ASA membership (see Figures 2 and 5), the number of nominations from that sector or gender needs to increase, and these nominations need to be of good quality.

The ASA Fellow award is a significant recognition of contributions to the statistics profession and should reflect the constituency of the ASA membership. If you or others you know are deserving of this award, please participate in and encourage others to participate in the award nomination process. ■

Meet BLS Commissioner Keith Hall

Amstat News invited Keith Hall, commissioner of the Bureau of Labor Statistics (BLS), to respond to the following questions so readers could learn more about him and the agency he leads. Look for other statistical agency head interviews in past and forthcoming issues.

What have you enjoyed most about being head of BLS?

As I come to the end of my first term as commissioner of BLS, I want to thank the ASA for providing me the opportunity to express my deep appreciation to the employees of BLS, my colleagues in the statistical community, members of Congress, and the many others who have given me their support in serving the American people. It has been a great honor to lead an agency of dedicated professionals whose work helps make BLS a recognized world leader in the collection, analysis, and dissemination of critical measures of employment and unemployment, compensation and benefits, workplace safety, productivity, and consumer and producer prices.

One of the highlights of my tenure was celebrating the 125th anniversary of BLS and presiding over the ceremonies recognizing its historic role in providing information that affects nearly all aspects of American society. I have also enjoyed working to design and implement initiatives to ensure that BLS has the resources and talent needed to meet the information needs of a rapidly changing U.S. and global economy by continuously improving our products and services, investing in our work force, and modernizing our business process.

What do you see as the biggest challenge(s) for BLS, and have they changed significantly since you started this position?

Perhaps our biggest challenge has been to maintain the quality and usefulness of BLS data in the face of significant budget pressures and an increasingly more difficult data collection environment. We managed to work through some budget challenges from FY 2007 to mid-year FY 2009 and, while we've saved tens of millions of dollars a year and slowed the decline of survey response rates with innovations such as our Internet Data Collection Facility and the development of an alternate to the Locality Pay Survey, I am concerned about the likelihood of much deeper budget cuts in the near future. These would almost certainly result in the loss of whole statistical programs for BLS. Improving data collection technology will continue to help over time, but such innovation takes time and resources, especially in a federal government setting.

Describe your top two or three priorities for BLS.

One of my top priorities has been improving our data analysis and dissemination. Although producing reliable and accurate data is absolutely necessary for BLS, it is not enough to focus our analysis and dissemination roles solely on the needs of policymakers in

Washington. Our data have tremendous value as part of the "statistical infrastructure" of the U.S. economy and the potential to help nearly every American make better-informed decisions—both public and private. This is becoming all the more important as we continue to see the decline in the number of responsible, knowledgeable business writers and the rise of nontraditional news sources on the Internet. I worry that this is becoming an age of "too much information" and it is becoming quite difficult for an average American to distinguish objective, reliable economic information.

Another of my priorities has been supporting the modernization of our pricing programs, beginning with the Consumer Price Index (CPI). For the first time, we are now continuously updating the components of the CPI, rather than updating once a decade with each new decennial census. Also, we are now well into the process of completely redesigning the Consumer Expenditure Survey, which is used to select the market basket of goods used in the CPI.

What do you see as the role for the broader statistical community in supporting BLS?

As I mentioned before, I believe that BLS data and the data from other federal statistical agencies are part of an important



Keith Hall has more than 20 years of federal service with the Department of the Treasury, International Trade Commission, Department of Commerce, Executive Office of the President, and Bureau of Labor Statistics.

Fast Facts

BLS Commissioner reports to Secretary of Labor's Office

Website: www.bls.gov

FY11 budget: \$610 million

Staff size: 2,600

“statistical infrastructure” for the U.S. economy. Viewing the federal statistical system as a whole, the broader statistical community can help in many ways. This would include helping to identify and support efforts to address weaknesses and inconsistencies in methodologies and gaps in data coverage, find more cost-effective

ways to collect data, communicate the value and quality of our statistical products to a wider audience of both potential data users and potential employees, and maintain the continued transparency and independence—real and perceived—that is essential to the successful accomplishment of the BLS mission and the mission of the other statistical agencies.

What do you see as the biggest accomplishment of the agency during your tenure?

I believe that BLS has significantly improved access to our data and is providing more accessible analysis for average Americans. We have developed a detailed strategic plan with specific

outreach goals. We've redesigned our website and now get as many as 4 million unique visitors per month. We've redesigned our data releases and are moving them toward an interactive online format. We're now using a customer information system to track phone calls and emails to inform us of what kind of questions we're getting from users. And, last year, we spent significant time and resources developing a detailed and ambitious plan for using social media. Although this project has now stalled because of an impasse with the Department of Labor, I'm hopeful that we will be able to resume our plans soon. ■



Social & Scientific Systems, Inc. and panel members Eleanor Feingold, Gina D'Angelo and Joan Bailey-Wilson invite you to join us at a symposium to honor Brad Efron for his many contributions to theoretical and applied statistics. We will be discussing emerging statistical challenges in large scale inference, with a focus on applications in genetics and biomedical imaging. The goal of the symposium is to stimulate discussion; it will include both formal and informal meeting and discussion time, in addition to the featured speakers.

Brad Efron's trailblazing work helped earn him a Presidential National Medal of Science. Besides his extensive research, Brad Efron has held many leadership positions in the statistics community. His most famous breakthrough, the “bootstrap” (1979), marked the start of statistics' continuing computer-intensive age.

The symposium is limited to 200 people. Please RSVP to: LargeData@s-3.com

The Brad Efron Honorary Symposium on Large Scale Inference

October 19, 2011
Silver Spring, Maryland

Keynote Speaker: Brad Efron
Professor of Statistics, Stanford University

Keith Baggerly
Professor, Department of Bioinformatics and
Computational Biology, The University of Texas MD
Anderson Cancer Center

F. Dubois Bowman
Director, Center for Biomedical Imaging Statistics,
Emory University, Rollins School of Public Health

Brian Caffo
Associate Professor, Department of Biostatistics,
Johns Hopkins University, Bloomberg School of
Public Health

Kathryn Roeder
Professor, Department of Statistics,
Carnegie Mellon University



The End Is Near

Keith Crank, ASA Research and Graduate Education Manager

I have been writing regular *Amstat News* articles for almost five years, but that will soon end, as I plan to retire from the ASA at the end of the year. My years here have been enjoyable. After a long time at the National Science Foundation (NSF), it was a pleasure to move to the ASA, where the workload is more reasonable and the stress level much lower.

My position here was a new one when I started. While there was a job description, there were no specific ongoing tasks assigned to it. So, it has come to fit my shape over the years. I am both interested in and (relatively) good at the tasks I complete, but there is room for this position to grow. While there are now specific tasks assigned, whoever replaces me will have some flexibility to shape the job to fit his/her interests and abilities.

The primary tasks of this position include the following:

Demographics: Find or collect information about the profession. Analyze the data and become the resource person for

NSF Business

Sastry Pantula has agreed to continue as the division director for the Division of Mathematical Sciences at NSF for two more years. The NSF program directors in statistics and probability for fiscal year 2012 are the following:

Gabor Szekely (gszekely@nsf.gov), Statistics

Haiyan Cai (hcai@nsf.gov), Statistics

Nandini Kannan (nkannan@nsf.gov), Statistics

Tomek Bartoszynski (tbartosz@nsf.gov), Probability



Crank

questions about demographics on statisticians. This includes conducting the annual survey of departments and the annual salary surveys of academics, as well as helping to coordinate the biannual salary survey of business, industry, and government. It also includes accessing information from other sources, such as Bureau of Labor Statistics data on salaries and employment,

National Center for Education Statistics data on degrees earned, and NSF's Survey of Earned Doctorates.

Caucus of Academic Representatives: The person in this position is the ASA liaison to the Caucus of Academic Representatives. The caucus is a relatively new organization

within the ASA. It was established to provide academic statisticians and biostatisticians with a more formal place within the ASA. Groups of academic statisticians and biostatisticians—including departments, divisions, and less well-defined subgroups within other departments—can join the caucus and be represented

by a member of its group. (For departments, this is usually the department chair/head.) The ASA liaison is responsible for working with the caucus to ensure its activities run smoothly. These activities include the annual survey of departments, the chairs' workshop, the open meeting of the caucus at JSM, and the election of officers.

Outreach: The demand for statisticians continues to exceed the supply. Although the number of statistics degrees awarded has grown rapidly over the last 10 years (especially at the master's level), unemployment for statisticians is still near zero. Finding ways to expand our visibility, especially at the high-school and early college level, is important. The growth in number of degrees awarded may suggest we are doing a good job with outreach; however, most of the growth has come from foreign students. This is problematic for two reasons. First, we face the risk that many of them will return to their home countries, rather than taking jobs here. And second, many of our government jobs restrict hiring to U.S. citizens.

I've been involved with the Society for the Advancement of Chicanos and Native Americans in Science. Each year, I organize a scientific session around applications of statistics. In addition, we have an ASA booth in the exhibit hall and there is an informal session in which the participants can talk with statisticians. More needs to be done.

My "retirement" plans are quite nebulous. I don't plan to drop out of sight completely, but I do plan to slow down. Just as I believe everyone out there should pay attention to what I write, my body seems to think I should pay attention to it. And it seems to be telling me I'm not so young anymore.

To contact me, send an email to keith@amstat.org. ■

WANTED: Manager of Surveys and Graduate Education

The American Statistical Association is seeking qualified applicants to fill a Manager of Surveys and Graduate Education position. The duties of this dynamic individual include:

- Develop and execute surveys conducted by the ASA
- Serve as a member of a team of staff and volunteers
- Tackle the challenges of improving statistical education at the graduate level
- Assist in the administration of the ASA's accreditation program
- Solicit, propose, and manage ASA grants related to graduate education and research matters
- Work with appropriate ASA constituencies and entities to develop grant requests
- Ensure production of appropriate publicity pieces as needed, including columns for *Amstat News*
- Prepare periodic reports on activities of the graduate education programs and results of surveys
- Prepare and submit budgets within the responsibilities of this position
- Serve as a resource for members, staff, and the community in the field of surveys and graduate education in statistics

Candidates should have an advanced degree in statistics (PhD preferred), with specific expertise in survey methodology and a minimum of five years of experience. Familiarity with working with academic departments of statistics and grant development would be considered a major plus. Successful candidates will demonstrate the ability to effectively collaborate and manage multiple processes and projects. Excellent interpersonal skills and strong oral and written communication skills are required.

Excellent benefits include health, dental, and vision insurance; 401(k); tuition reimbursement; and subsidized public transportation. Candidates should submit a letter of application, including salary history and résumé. All materials should be emailed to lynn@amstat.org or mailed to Human Resources-Surveys/ Graduate Education, American Statistical Association, 732 North Washington Street, Alexandria, VA 22314.

The American Statistical Association is an Equal Opportunity Employer.

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Attitudes About Postdoctoral Training for Statisticians Evolve

Alan Karr, National Institute of Statistical Sciences

Statistics, like many other professions, has not been rapid in responding to changes in its scientific and human resources environment. However, one rather dramatic change has occurred over the past 25 years: the emergence of postdoctoral training. I believe this change has benefited everyone—the postdocs; those who mentor them; and the organizations in academia, government, and industry that become their employers.

In the physical sciences, postdoctoral training has been the norm for years. Statistics is not one of the physical sciences, however. Nor is our situation exactly like those of either of our sister disciplines, mathematics and computer science. In math, postdoctoral training is *de rigueur*, while it remains rare in computer science.

Cynics say postdocs constitute a labor force that is much more highly trained than graduate students and not much more expensive, but this misses the point. In settings in which postdocs are common, faculty understand that complex, high-impact research will not get done without the skills and focus of postdocs. Departments know graduate study alone is too blunt a filter to identify talented potential faculty. Nearly everyone realizes the teaching and service responsibilities borne by new faculty members can interfere with the essential transition from being an advisor-dependent graduate student to being an independent researcher with a distinctive research identity and strong funding. The early career scientists who become postdocs welcome the opportunity to emphasize research productivity, from papers to initial proposals. It really is an “everyone wins” situation.

One influence has been the array of career paths available to statisticians entering the profession. Some individuals and organizations think being a postdoc is irrelevant or superfluous. In fact, postdoctoral training is as valuable for statisticians working in government or industry as for those working in a university, because the independence it engenders is necessary everywhere.

The centrality of postdocs to statistics emerged contemporaneously with two of the other most notable trends in our profession over the past quarter-century: the increasing attention to cross-disciplinary research and the now-pervasive influence of computing. Many postdocs have more cross-disciplinary training and inclination than their mentors, and

most are more adept at computing, often to the point it may not always be clear who is the mentor and who is the mentee.

How did this happen? Several organizations led the way by example. These include the National Institute of Statistical Sciences (NISS), the Geophysical Statistics Program at the National Center for Atmospheric Research and, more recently, the Statistical and Applied Mathematical Sciences Institute. The Division of Mathematical Sciences at the National Science Foundation has provided both dedicated awards for postdocs and support for postdocs across its entire research portfolio.

Of these organizations, I know NISS best. Our experience is substantial: More than 75 early-career statisticians and other scientists have been postdocs here. Despite strong self-selection, we receive dozens of applications for each position. Every NISS postdoc has exerted major influence on the research in which he or she has been engaged. Some have reshaped floundering efforts into more focused, productive ones. Our postdocs have always shared ideas among themselves, often with dramatic results.

Working with collaborators and clients has improved our postdocs’ communication skills. The placement record is perfect, reflecting the growing appetite among employers for statisticians who have been postdocs. Indeed, this year, all four of our “graduating” postdocs secured tenure-track faculty positions.

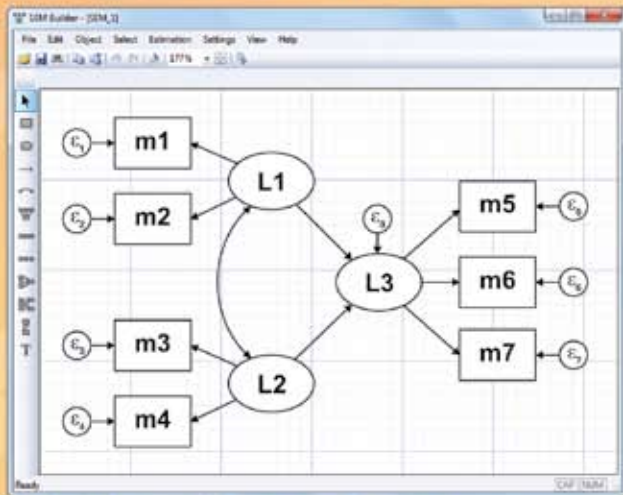
So, are postdocs now part of the statistical infrastructure? Not quite. Employers across all sectors still show a tendency to talk the talk when it comes to hiring only those who have been postdocs. Most new degree recipients will turn down a postdoc in favor of a tenure-track faculty position, or a “permanent” position in industry or government, even though this should not be necessary. Any university should be willing, as NISS has, to allow a newly appointed faculty member to take leave for a year (or longer) in order to hold a postdoctoral position.

The current economic situation is anguishing, but we can react in positive ways. I urge all who have, or can generate, resources to support postdocs to make maximal use of the current opportunity to broaden understanding of the value of postdocs. Having robust and productive postdoctoral programs will enlarge the future of statistics. More to the point, we simply face a unique chance to make a profound scientific and personal difference to our profession. ■

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Complete implementation—Standardized and unstandardized estimates. Modification indices. Direct and indirect effects. Factor loadings. Score tests. Wald tests. Factor scores and other predictions. Goodness of fit. Robust standard errors. Clustered or correlated data. Estimation with groups and tests for invariance. Estimation by maximum likelihood (ML), asymptotic distribution free (ADF), or full information maximum-likelihood (FIML) for missing data.

Fully integrated—There are no separate modules to buy and fumble between, and *all* statistical features (predicted values, tests of linear and nonlinear combinations specified in natural algebraic language, likelihood-ratio tests, and more) are available after SEM just as they are available after the other 128 estimators. All means all. Estimate on one dataset, form predicted values in another.

Features no one else (yet) has—Such as estimation of models using survey data from complex sampling designs.

New in Stata 12—SEM. Chained equations for multiple imputation (MI). MI methods for truncated, censored, and count data. Estimation of multilevel/mixed models on complex survey data. Contrasts and pairwise comparisons. Multivariate GARCH. Unobserved components model (UCM). ARFIMA. Business calendars. Excel® import and export. PDFs of results and graphs. ROC analysis with covariates. Bootstrap and successive difference replicate (SDR) weights for complex survey data. Installation Qualification for regulatory submissions. More support for multicore computers. Automatic management for up to 1 terabyte of memory.

Visit www.stata.com/stata12

Nominations Sought for COPSS Awards

Nominations are being sought for the following awards, to be presented by the Committee of Presidents of Statistical Societies (COPSS).

The **Fisher Lectureship** is awarded for outstanding contributions to aspects of statistics and probability that closely relate to the scientific collection and interpretation of data. The award exists to recognize the importance of statistical methods for scientific investigations. The hour-long lecture is delivered during JSM. Eligible nominations should be sent in PDF format by December 15 to Ross Prentice c/o Sheri Greaves, COPSS Fisher Lecturer Award Committee, at rprentic@whi.org and sgreaves@whi.org.

The **Presidents' Award** recognizes outstanding contributions to the statistics profession. It is typically granted to an individual who has not yet reached his or her 41st birthday. In the special case of an individual who received his or her statistically related terminal degree fewer than 12 years prior to the nomination deadline, that individual will be eligible if he or she has not yet reached his or her 46th birthday during the year of the award. Eligible nominations should include a current curriculum vitae, the nominee's date of birth, a nomination letter (up to three pages), and up to five supporting letters. Nominations should be sent in PDF format by January 15, 2012, to Tony Cai, committee chair, at tcai@wharton.upenn.edu.

The **Elizabeth L. Scott Award** is presented biennially (even years) to an individual who has helped foster opportunities in statistics for women and exemplifies the contributions of Elizabeth Scott's lifelong efforts

to further the careers of women in academia. Nominations should be sent by January 15, 2012, to Francesca Dominici, committee chair, at fdominic@hsph.harvard.edu.

These awards are jointly sponsored by the American Statistical Association, the

Institute of Mathematical Statistics, the International Biometric Society (ENAR), the International Biometric Society (WJAR), and the Statistical Society of Canada. Detailed award criteria and nominating procedures are available at www.niss.org/copss. ■

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

www.amstat.org/careers/awards.cfm

November 15, 2011

ASA Deming Lectureship

Nominations: Pam Craven, pamela@amstat.org
Questions: A. Blanton Godfrey, abgodfre@ncsu.edu

December 1, 2011

ASA Noether Senior and Young Scholar Awards

Nominations: Pam Craven, pamela@amstat.org
Questions: Pranab K. Sen, psen@bios.unc.edu

December 15, 2011

COPSS Fisher Lectureship and Award

Ross Prentice c/o Sheri Greaves
rprentic@whi.org and sgreaves@whi.org

January 15, 2012

COPSS Presidents' Award

Tony Cai, tcai@wharton.upenn.edu

January 15, 2012

COPSS Elizabeth L. Scott Award

Francesca Dominici, fdominic@hsph.harvard.edu

March 2, 2012

ASA SPAIG Award

Barry D. Nussbaum, nussbaum.barry@epa.gov

March 9, 2012

ASA Statistics in Chemistry Award

Rick Lewis, richard.a.lewis@gsk.com

March 15, 2012

ASA W. J. Dixon Award for Excellence in Statistical Consulting

Nominations: Pam Craven, pamela@amstat.org
Questions: Christina M. Gullion, christina.gullion@kpchr.org

March 15, 2012

ASA Founders Award

Nominations: Pam Craven, pamela@amstat.org
Questions: Nancy L. Geller, nancylgeller@gmail.com

March 15, 2012

ASA W. J. Youden Award in Interlaboratory Testing

Nominations: Pam Craven, pamela@amstat.org
Questions: Michael J. Messner, messner.michael@epa.gov

March 15, 2012

ASA Waller Education Award

Nominations: Pam Craven, pamela@amstat.org
Questions: June Morita, june@stat.washington.edu

April 2, 2012

ASA Gertrude M. Cox Scholarship

Nominations: Pam Craven, pamela@amstat.org
Questions: Eleanor Feingold, feingold@pitt.edu

April 2, 2012

ASA Outstanding Statistical Application Award

Nominations: Pam Craven, pamela@amstat.org
Questions: Petrutza C. Caragea, pcaragea@iastate.edu

April 2, 2012

ASA Edward C. Bryant Scholarship

Nominations: Pam Craven, pamela@amstat.org
Questions: Tapabrata Maiti, maiti@stt.msu.edu

April 2, 2012

ASA Excellence in Statistical Reporting Award

Nominations: Pam Craven, pamela@amstat.org
Questions: Morteza Marzjarani, marzjara@svsu.edu

April 2, 2012

ASA Samuel S. Wilks Memorial Medal

Nominations: Pam Craven, pamela@amstat.org
Questions: Paul P. Biemer, ppb@rti.org

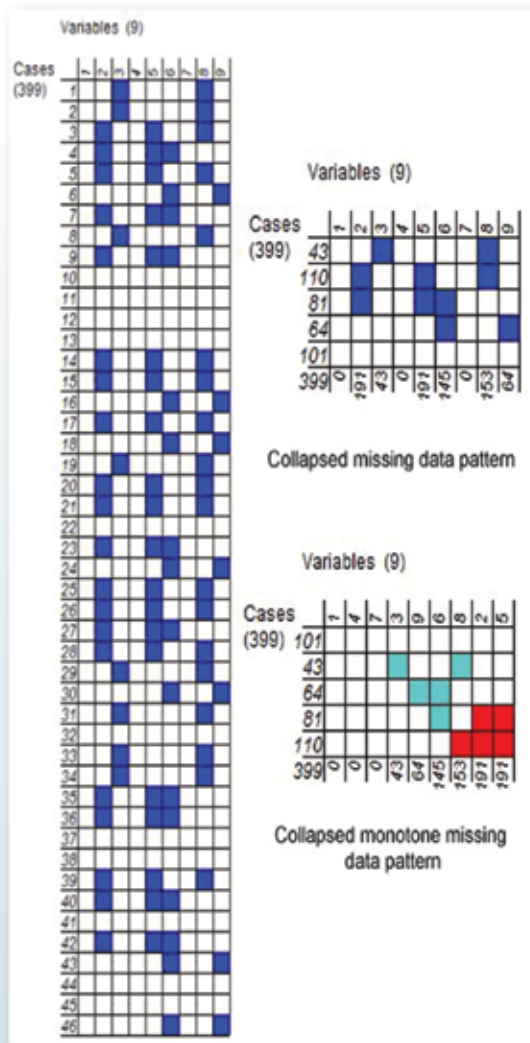
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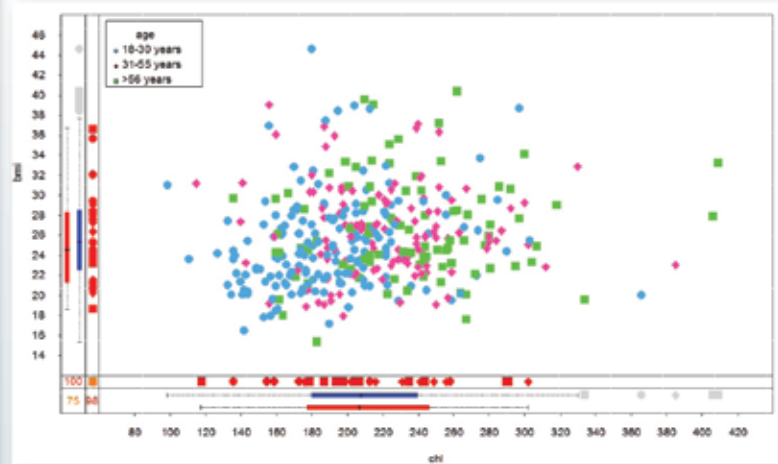
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SOLAS Highlights

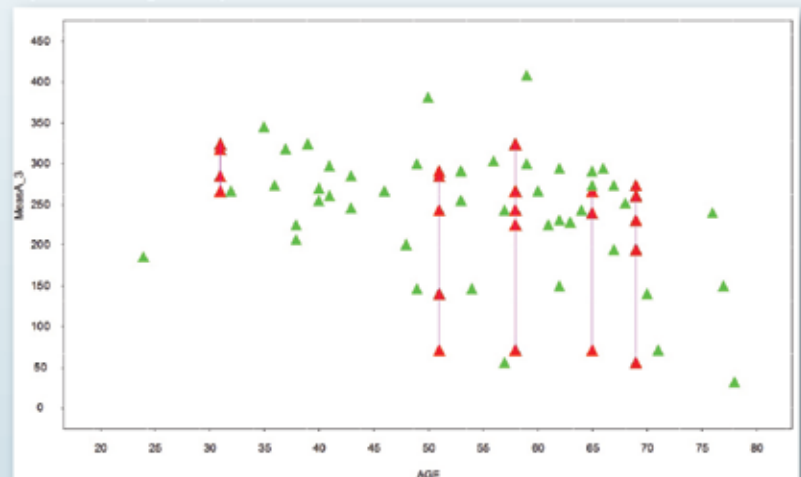
- ▶ Developed with guidance from Prof. Donald B. Rubin, the inventor of multiple imputation
- ▶ 9 different imputation techniques, including 5 for multiple imputation
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Genest

Christian Genest, professor of statistics at McGill University, was recently named the recipient of the Statistical Society of Canada (SSC) 2011 Gold Medal. This award, which is the society's highest distinction, was given to Genest "in recognition of his remarkable contributions to multivariate analysis and non-parametric statistics, notably through the development of models and methods of inference for studying stochastic dependence, synthesizing expert judgments, and multi-criteria decisionmaking, as well as for his applications thereof in various fields such as insurance, finance, and hydrology." The award ceremony took place at the SSC 39th Annual Meeting, held in Wolfville, Nova Scotia, June 12–15. For details, see www.ssc.ca/en/award-winners/award-winners-2011. ■

Joseph Glaz, a Fellow of the ASA, was recently appointed head of the department of statistics at the University of Connecticut. His appointment became effective on July 1. ■

Barry P. Katz was recently named the first chair of the Indiana University (IU) Department of Biostatistics. He is also a professor of biostatistics and an adjunct professor of public health at the IU School of Medicine and an adjunct professor of preventative and community dentistry at the IU School of Dentistry.



Front row, from left: Monroe Sirken, Cliff Bailey, Tom Jabine, Mel Kollander, and Barry Nussbaum. Back row, from left: Carl Pierchala, Clyde Tucker, Ruth Allen, Mike Fleming, and Fritz Scheuren.

Senior Statisticians Society

A newly formed group of retired and active federal senior statisticians has been meeting in and around Washington, DC, for lunch once a month to reminisce about their careers and discuss the latest developments in government statistical programs. The group was aptly named the Senior Statisticians Society. The August meeting was held at Maggiano's Little Italy restaurant, located in the Friendship Heights section of Washington, DC. In attendance were founders Tom Jabine, Mel Kollander, and Mike Fleming. Other attendees included Fritz Scheuren, Monroe Sirken, Cliff Bailey, Barry Nussbaum, Ruth Allen, Clyde Tucker, and Carl Pierchala. If you are interested in joining the Senior Statisticians Society, contact Jabine at tjabine@verizon.net, Kollander at mellk@erols.com, or Fleming at cflaming0@cox.net.



Katz

Katz has served as director of the division of biostatistics since 1995. Effective July 1, the division was elevated to an independent department led by Katz.

The division opened with three faculty members in 1984 as a section of the Regenstrief Institute. It became a division in

the IU Department of Medicine in the late 1980s. Today's department has 17 faculty members and a large cadre of research staff. It offers PhD and MPH degree programs and will become part of the soon-to-be-established IU School of Public Health. More information can be found at www.biostat.iupui.edu. ■

A special issue of the *Journal of the Indian Society of Agricultural Statistics (JISAS)* features a festschrift for **Prem Narain**, who is celebrating his 75th birthday. To view the issue, visit www.isas.org.in/jisas. To read more about Narain, visit <http://magazine.amstat.org/blog/category/addfeature/news-and-announcements>. ■

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

sectionnews

Biometrics

The Biometrics Section held its annual business committee meeting at this year's Joint Statistical Meetings (JSM), during which they shared election appointments, summarized past conferences, and announced the winners of several section awards.

The section appointed Tim Johnson as the 2012 JSM program chair, and the 2012 ENAR program chair is Daniel Scharfstein. Also, Jianwen Cai won the election for the new chair elect-elect, and Scarlett Bellamy won the election for the Council of Sections representative for 2012–2014.

Another highlight of the business meeting was a review of the ENAR meeting that took place March 20–30, also in Miami, Florida. The section sponsored 10 poster sessions and 23 contributed paper sessions. These sessions were scored highly by the section program chair and ranked highly among all reviewers.

Also during the meeting, Barry Graubard gave a brief account of David P. Byar, after whom the section's young investigator award is named. This year's winner is Daniela Witten from the University of Washington. She received \$1,500 for her paper, titled "Penalized Classification Using Fisher's Linear Discriminant," which she presented at JSM.

This year's travel award winners also were named and include the following:

- Genevera Allen, Rice University, for "A Generalized Least Squares Matrix Decomposition"
- Qunhua Li, University of California at Berkeley, for "Measuring Reproducibility of High-Throughput Experiments"
- Jessica Minnier, Harvard University, for "Risk Classification with an Adaptive Naïve Bayes Kernel Machine Model"
- Layla Parast, Harvard University, for "Landmark Prediction of Long-Term Survival Incorporating Short-Term Event Time Information"
- Sihai Dave Zhao, Harvard University, for "Grouped Variable Selection via Hierarchical Models"

Applications are invited for the 2012 Byar Young Investigator Award and Biometrics Section travel awards; the deadline is January 1, 2012.

Finally, Roslyn Stone, chair of strategic initiatives, announced that the winner of the "Developing the Next Generation of Biostatisticians" initiative from January is a proposal by Jane Monaco and Amy Herring.

Complete minutes of the meeting are available on the section's website at www.bio.ri.ccf.org/Biometrics.

For information about how to apply for the 2012 Byar Young Investigator Award and detailed section news, visit <http://magazine.amstat.org/?cat=17>.

Biopharmaceutical

Do you know someone in the Biopharmaceutical Section who you think deserves to become an ASA Fellow? If you are thinking of someone and not sure of the criteria for rating nominees, visit www.amstat.org/careers/fellows.cfm. Also, visit www.amstat.org/careers/fellowslist.cfm to determine whether the person you have in mind is already a Fellow. If not, submit their name to Neal Thomas at snthomas99@yahoo.com. The section's Fellow committee will evaluate each recommendation, and, though the committee does not typically sponsor candidates, it will help identify a sponsor and supply a letter of support.

Also, submissions are being sought for JSM 2012 poster and paper awards. If you plan to present a poster or paper at JSM 2012, submit an abstract through the section by February 1, 2012. The deadline for posters is May 1, 2012, and they should be sent to Jerry Wang at Junyuan.Wang@pfizer.com. Authors who compete for a poster award cannot also compete for a student paper award.

Finally, congratulations to this year's JSM poster award winners:

- Martin O. Carlsson, first place, "A Comparison of Methods for Adjusting for the Baseline Measure"
- Kelly H. Zou, second place, "Cross-Sectional and Longitudinal Joint Modeling of Repeated Measures of Quasi-Continuous Patient-Reported Outcome and Binary Response Data"
- Yufan Zhao, third place, "Reinforcement Learning Strategies for Lung Cancer Clinical Trials"

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

The JSM 2011 Biopharmaceutical Section Student Paper Award winner was David Vock of North Carolina State University for “Mixed Model Analysis of Censored Longitudinal Data with Flexible Random Effects Density.”

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

Quality and Productivity

The Section on Quality and Productivity (Q&P) is happy to welcome Teresa Utlaut as chair-elect and Willis Jensen as program chair-elect for 2012. If any section member would like to nominate a candidate for an elected office (chair or program chair) or appointed office for 2013, please email the nomination to Don McCormack at don.mccormack@jmp.com.

The 2011 Fall Technical Conference will be held in Kansas City, Missouri, October 13–14. For more information, visit <http://cba.ua.edu/fic2011>.

The 2012 Quality and Productivity Research Conference will be held June 4–7 in Long Beach, California. For details, visit www.qprc2012.com/QPRC_2012_Flyer.pdf.

Members can submit JSM 2012 invited session proposals to David Edwards at dedwards7@vcu.edu.

The Q&P student competition will be held again in 2012. This year’s winners received cash prizes and were recognized at JSM. Q&P-sponsored student travel grants also will be awarded for JSM 2012. Application details for both competitions will be available soon.

Statistical Programmers and Analysts

The Section for Statistical Programmers and Analysts held its inaugural “Hindsight Is 20-20” poster competition during JSM 2011. The competition encouraged authors to present a poster highlighting a difficult programming obstacle and detailing the solution(s). Posters were judged on usefulness and innovation of the solution, scope of the problem, and clarity of the poster’s message. Posters were judged during the poster presentation, and winners were announced at the Section for Statistical Programmers and Analysts’ business meeting on August 2.





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Prizes were awarded to the following presenters:

First Place (\$800)

Luke A. Reinbolt of Celerion for “Using PROC TEMPLATE to Convert SAS Data to Define.XML”

Second Place (\$400)

Ying Su of Merck for “There Is Such a Thing as Too Much Data”

Third Place (\$200)

Shuping Zhang and Xingshu Zhu of Merck for “A Single Imputation SAS Macro”

Congratulation to all winners, and thank you to all who participated in this year’s competition. Stay tuned for details about next year’s poster competition announcement.

Statistics in Epidemiology

Jessica G. Young, Section Publications Officer

The Statistics in Epidemiology (SIE) Section would like to congratulate Mitchell Gail of the National Cancer Institute for winning the 2011 Nathan Mantel Lifetime Achievement Award for his lifetime contributions to the intersection of statistical science and epidemiology.

Congratulations also go to the following winners of the 2011 SIE Young Investigator Award: Jennifer Feder Bobb, Tamar Sofer, Jessica Myers, Ying Guo, Jun Li, Thomas Birkner, Nicole Bohme Carnegie, Matthew White, Farid Jamshidian, Karen McKeown, Arpita Ghosh, and Aasthaa Bansal.

Thanks go to past year’s chair, Nicholas P. Jewell, and section secretary/treasurer, Jaya M. Satagopan, for their hard work running the Nathan Mantel and Young Investigator awards competitions.

Details for the 2012 Young Investigator Award competition will be announced in December. Details for the next Nathan Mantel Lifetime Achievement Award competition will be announced in December of 2012.

For pictures of the award winners, visit the section news online at <http://magazine.amstat.org/?cat=17>.

Corrections

On Page 14 of the August issue, The Wharton School was erroneously affiliated with Penn State. It is actually affiliated with the University of Pennsylvania. We apologize for any confusion this may have caused.

On Page 13 of the September issue, Mollie Orshansky’s name was misspelled. We regret the error.

Survey Research Methods

Offerings from the Survey Research Methods Section figured prominently in the JSM program. This year, the section sponsored four invited sessions, 15 topic-contributed sessions, 19 contributed sessions, a dozen posters, and four roundtables, in addition to more than 20 co-sponsored sessions.

Paul Beatty, who served as the section’s 2011 program chair, thanks the many section members who contributed proposals, suggestions, and support throughout the year.

The section’s 2012 JSM chair, Mike Larsen, encourages section members to think about presenting topic-contributed sessions, introductory overview lectures, and invited posters, in addition to possibly chairing a session. For information about participating at JSM, visit www.amstat.org/meetings/jsm/2012/guidelines.cfm. Those interested in chairing a session may contact Larsen at mlarsen@bsc.gwu.edu.

For detailed information, visit <http://magazine.amstat.org/?cat=17>. ■

chapternews

Buffalo-Niagara

Marie Davidian, William Neal Reynolds Distinguished Professor of Statistics at North Carolina State University and incoming president-elect of the ASA, visited the Buffalo-Niagara Chapter from September 1–2. Her research talk, titled “More Robust Doubly Robust Estimation,” opened the 2011–2012 Distinguished Women Scholars in Statistics seminar series, hosted by the department of biostatistics at the University at Buffalo (UB).

The talk raised significant interest among the local statistical community and attracted faculty, graduate students, and practicing statisticians, primarily from the biomedical area. After the talk, Davidian gave a short presentation and highlighted the important goals, challenges, opportunities, and directions for the ASA. She invited the audience to share their ideas and consider serving on ASA committees.

Alan Hutson, chair of the biostatistics department, presented Davidian with a plaque on behalf of UB that honored her contributions to scholarship and service to statistics. Davidian’s visit was jointly sponsored by the Buffalo-Niagara Chapter and UB. ■

2012

January

»2–4—Contemporary Issues and Applications of Statistics, Kolkata, India

For more information, visit www.isical.ac.in/~cias or contact Saurabh Bhattacharya, 203 B.T. Road, Kolkata, International 700108, India; cias@isical.ac.in.

»13–14—Workshop on Causal Inference and Graphical Models, Gainesville, Florida

For more information, visit www.stat.ufl.edu/symposium/2012 or contact Robyn Crawford, 103 Griffin-Floyd Hall, Gainesville, FL 32611; (352) 392-1942; robyn@stat.ufl.edu.

»23–25—5th Annual Bayesian Biostatistics Conference, Houston, Texas

For details, visit <http://biostatistics.mdanderson.org/BBC2012> or contact Lydia Davis, 1515 Holcombe Blvd., Unit 1409, Houston, TX 77030; (713) 794-4142; lbdavis@mdanderson.org.

May

»17–19—Methods and Models for Latent Variables (MMLV2012), Naples, Italy

For details, visit www2.stat.unibo.it/MMLV/default.asp or contact Stefania Capecchi, c/o Department of Statistics, Via Rodino' 22, Naples, International I-80138, Italy; +390812537465; capecchi@unina.it.

June

»17–21—ISBIS 2012, Bangkok, Thailand

For more information, visit www.isbis2012-thailand.org or contact David Banks, Department of Statistical Science, Box 90251, Duke University, Durham, NC 27708; (919) 684-3743; banks@stat.duke.edu.

»20–24—8th International Symposium on Statistics, West Lafayette, Indiana

For more information, visit www.stat.purdue.edu or contact Diane

Martin, 250 N. University Ave., West Lafayette, IN 47907; (765) 494-3141; martindl@purdue.edu.

July

»16–20—LinStat 2012 Conference and the 21st International Workshop on Matrices and Statistics, IWMS 2012, Bedlewo, Poland

For details, visit <http://linstat2012.au.poznan.pl/index.html> or contact Katarzyna Filipiak, Wojska Polskiego 28, Poznan, Non US/CAN Province 60637, Poland; linstat@up.poznan.pl.

December

»27—Eighth International Triennial Calcutta Symposium on Probability and Statistics, Kolkata, India

For more information, visit <http://triennial.calcuttastatisticalassociation.org> or contact Arindam Sengupta, 35 Ballygunge Circular Road,

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

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

» Indicates events posted since the previous issue

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Conjoint Analysis	Included	\$769
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Forecasting	Included	\$969
Missing Values	Included	\$999
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■ UCSF seeks applicants for an assistant or associate faculty appointment for a computational biologist. The candidate will liaise with basic, clinical, and translational science investigators and provide computational biology instruction.

Professional Opportunity listings may not exceed 65 words, plus equal opportunity information. The deadline for their receipt is the 20th of the month two months prior to when the ad is to be published (e.g., May 20 for the July issue). Ads will be published in the next available issue following receipt.

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

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

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

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

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



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Lead Statistician, Mayo Clinic Center for the Science of Health Care Delivery

In 2011, **Mayo Clinic** launched its Center for the Science of Health Care Delivery to investigate, implement and evaluate new practice models that will improve the value of health care to patients and society. The Center is multidisciplinary and applies multiple methods to analyze, plan and experiment with policies and practices in health care. Mayo Clinic is uniquely positioned to accomplish these goals given the broad range of clinical activities and observational and experimental practice-based interventions taking place at its three large campuses in Minnesota, Arizona and Florida, as well as the network of primary care practices that comprise the Mayo Clinic Health System.

The Mayo Clinic Center for the Science of Health Care Delivery invites applications for a Statistical Director within this vibrant Center focused on improving the processes, quality and outcomes of health care. As Director, this person will lead an analytical team consisting of master's-level biostatisticians, health services analysts (at the master's and bachelor's levels) and data analysts. Minimum qualifications include a Ph.D. degree in statistics, biostatistics, bioinformatics, econometrics or a closely aligned quantitative area at the Associate Professor level or equivalent, with computational experience and with demonstrated success in collaborating with clinical and/or translational scientists. Qualified candidates will have broad experience in biostatistics and medical research, and interest and demonstrated success in clinical and/or translational research. The successful candidate should have at least 5 years' post doctorate experience and will possess excellent leadership skills, communication skills and the ability to work as part of a multidisciplinary team of doctoral-, master's-, and bachelor's-level health services researchers, statisticians and programmers.

Successful applicants will have demonstrated expertise in one or more of the following areas:

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- Time series analyses
- Quantile regression
- Fractional regression
- Discrete choice modeling
- Instrumental variable technique
- Latent class modeling
- Hierarchical/multi-level modeling
- Structural equation modeling
- Bayesian methods

Primary responsibilities of this position will be:

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- Developing and conducting high-quality substantive and methodological research in one or more of the above areas;
- Publishing peer-reviewed articles, book chapters, and/or books;
- Competing for external funding;
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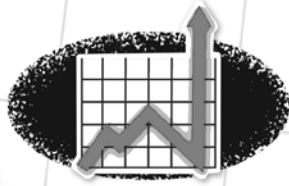
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Applications should include curriculum vitae and bibliography, summary of past experience and the names and e-mail addresses of three references. Specific questions related to the posting should be directed to:

Walter K. Kremers, Ph.D.
Associate Professor of Biostatistics
Department of Health Sciences Research
Mayo Clinic
200 First Street SW
Rochester, Minnesota 55905
E-mail: kremers.walter@mayo.edu

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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

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Interest Group for Medical Devices and Diagnostics

The Interest Group for Medical Devices and Diagnostics (SIGMEDD) encourages interested ASA members to join. This interest group was established more than three years ago and was recently renewed for another three years by the Council of Sections.

As has been the case for all recent JSM meetings, SIGMEDD organized a number of topic-contributed sessions. During the group's annual organizational meeting, which took place at the Joint Statistical Meetings in Miami Beach, Florida, future plans and activities were discussed. A charter also was adopted.

For information about joining SIGMEDD, visit www.amstat.org/sections/sigmedd. The website also contains the charter and descriptions of past activities.

Qualifications: PhD in bioinformatics, computational biology, or relevant discipline; post-graduate experience in cancer genomics; strong publication record; potential for extramural funding. Please send cover letter, CV, and 3 references to pbabcock@psg-ucsf.org. UCSF is an AA/EO employer.

■ RAND Statistics Group is seeking PhD-level statisticians interested in exciting opportunities to collaborate on multidisciplinary public policy research projects. Openings exist for recent graduates and experienced statisticians. See our ad in the September *Amstat News* for description or go to www.rand.org/statistics. Application deadline is December 15, 2011. Applications must be submitted online following the instructions at www.rand.org/statistics/jobs.html (Job ID #2962). Send questions to Susan_Paddock@rand.org. www.rand.org/statistics/jobs.html EO/AA Employer.

■ The departments of biomathematics and pediatrics at the David Geffen School of Medicine at UCLA are recruiting for an assistant professor of biostatistics

(non-tenure track). The successful candidate will participate in collaborative studies in pediatrics and develop a statistical methodology program. Please forward a CV, NIH biosketch, plus 3 letters of recommendation to: Mark Lucas, UCLA Dept. of Biomathematics, mlucas@med-net.ucla.edu. UCLA AA/EOE.

Connecticut

■ The U.S. Coast Guard Academy in New London, Connecticut, a highly selective federal military college providing a rigorous undergraduate program, invites applications for a tenure-track mathematics faculty position beginning fall semester 2012. A PhD in operations research, statistics, or a related discipline is strongly preferred. A commitment to outstanding undergraduate teaching is required. For additional information and to apply, go to www.cga.edu/facultyopenings. The U.S. Coast Guard Academy is an Equal Opportunity Employer. Visit www.cga.edu for more information.

District of Columbia

■ Small, DC, biostatistical firm (www.statcollab.com) involved in medical research and consulting seeks a Biostatistician/Statistical Programmer to perform project coordination, data analysis, SAS programming, and report writing. Send cover letter (include Ref: ASA-BIO-1108), resume, writing sample, program sample, and unofficial transcripts (graduate and undergraduate) by email (office@statcollab.com), fax (202-247-9701) or by mail: Statistics Collaborative, Inc., 1625 Massachusetts Ave., NW, Suite 600, Washington, DC 20036 www.statcollab.com. EOE.

Maine

■ Bowdoin College. Tenure-track position (assistant professor rank) in statistics beginning Fall 2012. Teaching two courses per semester, including introductory and major-level statistics and probability. PhD preferred, advanced ABDs considered. Visit www.MathJobs.org to apply. Review begins 11/14/11. Bowdoin College is committed to equality through Affirmative Action, and is an equal opportunity employer. For a full description of the position and further information about the college, see www.bowdoin.edu.



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 2012 or earlier. We seek outstanding individuals with a commitment to methodological and 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, longitudinal data analysis, and observational studies. For further information, please go to www.biostat.pitt.edu.

Formal review of applications will begin December 1, 2011 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, a statement of research and teaching interests, and a curriculum vitae. Candidates should also arrange for three reference letters to be submitted. 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.

Cleveland Clinic

Faculty Position in Quantitative Health Sciences

The Cleveland Clinic is seeking an additional faculty member to join its multidisciplinary group in Quantitative Health Sciences. The current group has 19 faculty and over 90 total members and is expected to grow substantially over the next several years. Areas of research application include biostatistics, clinical trials, statistical genetics and bioinformatics, statistical computing, predictive modeling, quality of life assessment, and cost-effectiveness analysis.

Successful candidates must have excellent written and verbal skills with the ability and desire to conduct both collaborative and methodologic research. A doctoral degree with expertise in biostatistics or a related discipline, experience working with large databases, training in methods of analysis of health care status questionnaires (e.g. item-response theory, latent-class analysis, classical test theory, factor analysis), ability and desire to collaborate, strong desire to publish journal articles is required. Expectations are the publication of collaborative papers utilizing Cleveland Clinic Knowledge Program data and the development and publication of new methods of measuring/analyzing health status data. The level of appointment will commensurate with experience of the candidate and may be at the full, associate, or assistant level. This is a 'hard money' position with no explicit requirements to obtain salary support. Masters level statistician support will be provided. Data manipulation and questionnaire programming support will also be provided. Minimal formal teaching is expected.

The metropolitan and suburban areas of Cleveland comprise a population of over 3 million, rich in cultural diversity. The city itself is centrally located to several other large cities yet enjoys a low cost of living index. The Cleveland Clinic is a top-ranked hospital overall and in all specialties and has been the leading heart care center for 17 years.

Interested candidates should e-mail curriculum vitae, the names of at least three references, and a letter summarizing experience and research interests to qhsjobsearch@ccf.org. These and other current openings may be found at <http://www.clevelandclinic.org/qhs>.

UC San Diego

SCHOOL OF MEDICINE

The Department of Family and Preventive Medicine within the School of Medicine, Health Sciences at UC San Diego (<http://famprevmed.ucsd.edu/>) is committed to academic excellence and diversity within the faculty, staff, and student body. We invite applications for Chief of the Division of Biostatistics and Bioinformatics. The Division is situated within the research-intensive environment of UCSD Medical School, which has research funding of nearly \$1 billion annually and is among the leading US academic medical centers. The Division currently has 11 faculty members, and supports major research initiatives in Alzheimer's disease, AIDS, stroke, cancer, and public health. The division is an integral part of the newly funded UCSD Clinical and Translational Research Institute, as well as NCI-designated UCSD Moores Comprehensive Cancer Center. The Division has historically strong ties to the UCSD Department of Mathematics, including its new Ph.D. in Statistics, as well as to the San Diego Supercomputer Center.

We seek a Division Chief who is nationally recognized for his or her research, with a successful record of administrative leadership in an academic medical setting. The Chief will lead division faculty in strategic planning for growth, including identification and pursuit of funding initiatives in translational and methodological biostatistics research. Responsibilities will include representing the Division effectively within the Department and the School of Medicine, recruiting and mentoring new faculty; and working closely with division faculty to provide leadership and oversight, including administration and growth of Division resources and academic promotion and retention of Division faculty. Candidates must have a doctoral degree in Biostatistics, Statistics, or a closely related field, and must be eligible for a tenured appointment at the associate or full professor level. A strong track record in research, strong interpersonal and administrative skills, and significant academic experience and accomplishment, including in a leadership role, are also required.

Please reference position number 10-284-AD on all correspondence. Salary is commensurate with qualifications and consistent with University of California pay scales.

Review of applications will begin on October 1, 2011, and continue until the position is filled.

To apply, please provide a letter of interest, CV, and names and contact information of three referees. Applicants are also asked to summarize in a personal statement their demonstrable commitment to promoting and enhancing diversity and equality, or their potential to make contributions in the field.

Apply at:
apol-recruit.ucsd.edu/apply
Under Family & Preventive Medicine
Associate or Full Professor, Chief of the Division of
Biostatistics and Bioinformatics (10-284)
Or send by mail to:
Karen S. Messer Ph.D. Chair, Search Committee
c/o Emily Pittman, Ph.D.
UCSD Moores Cancer Center
3855 Health Sciences Drive, #0901
La Jolla, CA 92039-0901

UCSD is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to excellence through diversity

Massachusetts

■ MIT Mathematics Department seeking to fill combined teaching and research positions as instructor, assistant professor, and higher in statistics or applied probability beginning September 2012. Appointments based mainly on exceptional research qualifications. PhD required by employment start date. Submit online, www.mathjobs.org: CV, research description, three recommendation letters. Applications should be complete by December 1, 2011. (See full classified text at mathjobs.org.) www.mathjobs.org Massachusetts Institute of Technology is an AA/EEO.

Missouri

■ At least one tenure-track assistant professor in statistics fall 2012. A PhD in statistics or related field by August 15, 2012. Apply online at <http://hrs.missouri.edu/find-a-job/academic> with a cover letter, CV and transcripts required; three letters of reference sent to Search Committee, University of Missouri, Department of Statistics, 146 Middlebush Hall, Columbia, MO 65211 or umcstatfacsearch@missouri.edu. The University of Missouri is an Equal

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

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North Carolina

■ Senior Biostatistician (Durham, NC). Identify and validate biomarkers. Develop and validate multivariate algorithms. Use multivariate statistical modeling applied to high-density biological data sets. Résumé to: Metabolon, Inc., Attention: Human Resources, P.O. Box 110407, Research Triangle Park, NC 27709 or apply online at www.metabolon.com. EOE.

Ohio

■ The Ohio State University Statistics Department (www.stat.osu.edu) invites applications for two tenure-track assistant professor positions beginning autumn semester 2012. PhD in statistics/biostatistics, and excellence in research and teaching required. One position is targeted to interest in methodological research with application to biomedical sciences; the second is targeted to interest in theoretical statistics and its applications. Email vitae, three reference letters, and graduate transcripts to facultysearch2012@stat.osu.edu. To build a diverse work force, Ohio State encourages applications from minorities, veterans, women, and individuals with disabilities. Flexible work options available. EEO/AA Employer. Ohio State is an NSF Advance Institution.

Pennsylvania

■ The statistics department at Temple University invites applications for a tenure-track, associate professor position. Candidates in any area of statistics must have a PhD in statistics, publications in top-tier journals, teaching excellence, and strong theory/application background. Apply electronically to Sanat Sarkar, stat.recruiting@temple.edu, with cover letter, CV, teaching evidence and three recommendation letters. For more information, visit www.fox.temple.edu/dept/statistics. Temple University is an Equal Opportunity/Affirmative Action Employer.

Texas

■ The Department of Statistical Science at Baylor University is seeking applicants for an assistant/associate professor position beginning August 2012. Candidates must hold a PhD in statistics or biostatistics and be committed to excellence in research, teaching, and service. Applicants should submit a letter of intent, vitae,



The Division of Biostatistics in the Department of Biostatistics and Epidemiology at the University of Pennsylvania Perelman School of Medicine seeks highly qualified candidates for standing faculty positions in both clinician educator (non-tenure) track and tenure track 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 September 15, 2011. Application will continue to be accepted after this date, until the positions are filled. The expected start date is July 2012 or later.

Clinician Educator track applicants will focus primarily on collaborative research as co-investigators, with secondary emphasis on methodological research. Applicants with collaborative research interests in translational science, health services, pediatrics, mental/behavioral health, renal, chronic pelvic pain, comparative effectiveness research, and/or clinical trials are especially encouraged to apply. Applicants in other areas of research areas will also be considered.

Tenure track applicants will focus primarily on methodological research, with secondary emphasis on collaborative research projects within the School of Medicine. Applicants with biostatistical research interests in meta-analysis, structural equation modeling, psychometrics (test/scale development, item response theory), causal models, mediation analysis, instrumental variables, nonparametric statistics, and specialized bioinformatics methods for next generation sequence data are encouraged to apply. Applicants in other areas of research areas will also be considered. There is a rich mix of ongoing biomedical research projects in the Perelman School of Medicine to provide motivation and opportunities for the development of novel statistical methods on wide ranging topics.

Candidates for both tracks are expected to have a strong commitment to teaching and must demonstrate outstanding research productivity. Primary teaching responsibilities include participation in Penn's Center for Clinical Epidemiology and Biostatistics academic programs.

The Graduate Group in Epidemiology and Biostatistics, jointly with the Department of Statistics in the Wharton School, offers degree programs leading to both the Doctor of Philosophy (PhD) and Master of Science (MS) in Biostatistics.

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 Perelman School of Medicine 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:

Clinician Educator :Apply for this position online at: http://www.med.upenn.edu/apps/faculty_ad/index.php/d2703

Tenure Track:Apply for this position online at: http://www.med.upenn.edu/apps/faculty_ad/index.php/d2702



UNC
LINEBERGER



The UNC Lineberger Comprehensive Cancer Center, the Division of Hematology-Oncology (Department of Medicine), and the Department of Biostatistics at the University of North Carolina at Chapel Hill are recruiting a non-tenure track Assistant, Associate, or full Professor to join the Cancer Center's growing Biostatistics and Data Management Core Resources directed by Joseph Ibrahim, PhD. The position will focus on collaborative biostatistical support for the over 300 members of the University's NCI-designated comprehensive center, particularly in the areas of clinical trials and clinical correlative science. Applicants should hold a doctorate in biostatistics, statistics, or equivalent discipline, and possess excellent written and oral communication skills. Candidates with prior consultative/collaborative experience in cancer or cancer-related research are preferred.

To apply, use the electronic submission website at <http://jobs.unc.edu/2501439> and upload PDF versions of your CV, cover letter, contact information for 4 references and research statements.

This position will remain open until filled.

The University of North Carolina at Chapel Hill is an Equal Opportunity/ADA employer. Women and minorities are encouraged to apply.

transcripts, and three letters of reference to Statistics-Search-11@baylor.edu. Completed applications ensure full consideration if received by November 30, 2011. AA/EEO.

Utah

■ The department of mathematics at the University of Utah invites applications for the following positions: Full-time tenure-track or tenured appointments at the level of assistant, associate, or full professor in all areas of mathematics and statistics. Three-year Wylie and Burgess assistant professorships. Please see our website at www.math.utah.edu/positions for information regarding available positions, application requirements and deadlines. Applications must be completed through the website www.mathjobs.org. www.math.utah.edu/positions. The University of Utah is an Equal Opportunity/Affirmative Action employer and educator. Minorities, women, and persons with disabilities are strongly encouraged to apply. Veterans preference. Reasonable accommodations provided. For additional information: www.regulations.utah.edu/humanResources/5-106.html. The University of Utah values candidates who have experience working in settings with students from diverse backgrounds and possess a strong commitment to improving access to higher education for historically under-represented students.

■ The department of statistics at Brigham Young University, Provo, Utah, seeks to fill full-time, continuing status track position. PhD in statistics or biostatistics required. The successful candidate will have record of scholarly research, has demonstrated ability to teach effectively. Complete faculty application at yjobs.byu.edu. Send CV to: Gilbert W. Fellingham, PhD, Search Committee Chair, Dept. of Statistics, Brigham Young University, 210 TMCB, Provo, UT 84602. BYU is an equal employment opportunity employer. Preference is given to qualified candidates who are members in good standing of the affiliated church, The Church of Jesus Christ of Latter-Day Saints.

Wyoming

■ University of Wyoming. Assistant academic professional-lecturer, statistics, beginning August, 2012. Requirements include MSc or PhD in statistics or related field and demonstrated excellence in undergraduate teaching. We seek a

www.westat.com

EOE

Survey Sampling Statistician

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

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

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

We are currently recruiting for the following statistical position:

Survey Sampling Statistician

Job Code 4130BR

Responsibilities include: developing sample designs (determining stratification and allocation to strata; determine sample size based on differences and power; determine optimal clustering; and select sample); selecting and/or constructing appropriate sample frame; developing and documenting weighting plan which includes non-response adjustment and bench-marking; developing and conducting imputation for item non-response and estimating sampling errors using appropriate software; writing specifications for programmers; and preparing reports on sample design, weighting procedures and other methodological issues. Candidates would benefit from knowing SAS and other statistical software packages; although candidates are not required to do programming. A master's or doctoral degree in statistics is required with 3 or more years of relevant experience. 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 **4130BR** in the space provided.



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dynamic, engaging teacher with an ability to motivate others. Full description and application instructions are at www.ezfacultysearch.com/uwo/stats/7. Selection will begin December 2 and continue until position is filled. The University of Wyoming is committed to diversity and endorses principles of affirmative action. We acknowledge that diversity enriches and sustains our scholarship and promotes equal access to our educational mission. We seek and welcome applications from individuals of all backgrounds, experiences, and perspectives.

Canada

Ontario

■ University of Waterloo. One tenure-track or tenured position in actuarial science. PhD in actuarial science and excellence in teaching and research. Review of applications begins 1/12/2012 and continues until filled. Send letter, CV, and arrange to have three recommendation letters sent to Chair, Department of Statistics and Actuarial Science, University of Waterloo, 200 University Avenue West, Waterloo ON N2L 3G1, Canada. sas.uwaterloo.ca/stats_navigation/FacultyPositions.shtml. The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities.

■ University of Waterloo. One or more tenure-track or tenured positions in statistics. PhD in statistics, demonstrated excellence in teaching and research or evident potential. Review of applications begins 1/12/2012 and continues until filled. Send letter, CV, and arrange to have three recommendation letters sent to Chair, Department of Statistics and Actuarial Science, University of Waterloo, 200 University Avenue West, Waterloo ON N2L 3G1, Canada. sas.uwaterloo.ca/stats_navigation/FacultyPositions.shtml. The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities.

■ University of Waterloo. One or more tenure-track or tenured positions in biostatistics. PhD in biostatistics, demonstrated excellence in teaching and research or evident potential. Review of applications begins 1/12/2012 and continues until filled. Send letter, CV, and arrange to



UNC
GILLINGS SCHOOL OF
GLOBAL PUBLIC HEALTH

The Department of Biostatistics at the University of North Carolina at Chapel Hill seeks to fill one post-doctoral position on its training grant in genomics and cancer. The department has exciting research programs in a number of areas of statistical genomics, including RNA-sequence analysis, genome-wide association studies, and studies of copy number variation, and strong collaborations with the Lineberger Comprehensive Cancer Center. We are seeking to fill the position immediately. The post-doctoral trainee must be a permanent resident or citizen of the U.S. The typical post-doctoral trainee will have completed highly relevant doctoral training in statistics, biostatistics, or related quantitative disciplines. Strong programming skills and knowledge of high-throughput sequencing data is highly desirable. Prior expertise in genomic analysis is preferred but not required.

Please send a cover letter summarizing your experience and interests, along with your CV and contact information to

Joseph G. Ibrahim
Training Grant Director
Department of Biostatistics
School of Public Health
CB #7420
University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-7420
E-mail: ibrabim@bios.unc.edu

FACULTY SEARCH ANNOUNCEMENT

Associate or Full Professor -- Division of Biostatistics

The Division of Biostatistics in the College of Public Health at The Ohio State University invites applications for a tenure-track senior faculty position to begin Autumn semester 2012. The Division and College are expanding and we moved to an attractive new location at the center of the campus in August 2011.

We seek outstanding individuals with a PhD in Biostatistics or Statistics and an excellent research and teaching record. All areas will be considered, but we have particular interest in applicants in areas of statistical genetics and clinical trials. The successful candidate is expected to teach and do methodological and collaborative research, and advise PhD and Masters students.

The Division faculty has the opportunity to collaborate closely with researchers from the largest campus in the country that includes the Colleges of Medicine, Pharmacy, Nursing, and Dentistry, as well as the James Comprehensive Cancer Center and the Ross Heart Hospital. The Division also administers an interdisciplinary PhD program in Biostatistics jointly with the Department of Statistics. For further information about our division, please visit: <http://cph.osu.edu/bio/>

Rank, salary, and tenure status will be determined by the candidate's credentials. Applications will be considered as they arrive and the date of appointment is open to negotiation. Women and other underrepresented groups are encouraged to apply.

Located in the state capital and a metropolitan area of more than 1.7 million, Ohio State offers excellent opportunities for interaction with practitioners, policymakers, and academic colleagues.

Please send a letter of application, CV, and contact information for three references in the preferred electronic format to: biostatsearch@cph.osu.edu

or send paper versions to:

Chair, Search Committee
Division of Biostatistics
College of Public Health
The Ohio State University
240 Cunz Hall
1841 Neil Avenue
Columbus, Ohio 43210-1351



An EEO/AA employer. To build a diverse workforce, The Ohio State University encourages applications from individuals with disabilities, minorities, veterans, and women. In accordance with the University policies, this position requires the successful completion of a background check.



School of Public Health

Biostatistics Division Director (Tenured or Tenure-Track Full or Associate Professor)

This newly-created Division Director position will guide academic and research biostatistics in the School. The position includes oversight responsibilities for the Department's biostatistics education programs and Biostatistics Service Center as well as the mentoring of junior biostatistics faculty. The Director will chart the future course of the Division and, consequently, the biostatistics enterprise at the School.

The position also includes research, teaching and service responsibilities, and comes with a tenured or tenure-track faculty line supported by hard dollars. Candidates should be proven scholars with a strong publication record in biostatistics and extensive independent and collaborative research experience. They must also be seasoned educators who have taught a range of statistics courses and mentored graduate students. Individuals with a variety of methodological research areas of interest will be considered.

Drexel is a top-50 private research university and the School of Public Health is the only accredited school of public health in Philadelphia. The Department of Epidemiology and Biostatistics now includes 16 full-time faculty members, seven of whom are biostatisticians.

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 interest, background and qualifications online.

Questions/inquiries can be addressed to:

Craig J. Newschaffer, Ph.D.
Chair, Department of Epidemiology & Biostatistics
cjn32@drexel.edu

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publichealth.drexel.edu

have three recommendation letters sent to Chair, Department of Statistics and Actuarial Science, University of Waterloo, 200 University Avenue West, Waterloo ON N2L 3G1, Canada. sas.uwaterloo.ca/stats_navigation/FacultyPositions.shtml. The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities.

International Australia

■ School of Mathematics and Physics, The University of Queensland, Brisbane, Australia. Lecturer/senior lecturer in statistics. The role: To take an active role in the research program in statistics plus teach undergraduate and post-graduate statistics courses. Remuneration: AUD\$76,789 - \$108,464 (Level B/C) p.a. plus 17% superannuation. Full-time, continuing appointment. Reference No. 492313. To apply: Go to www.uq.edu.au/uqjobs. EOE. ■



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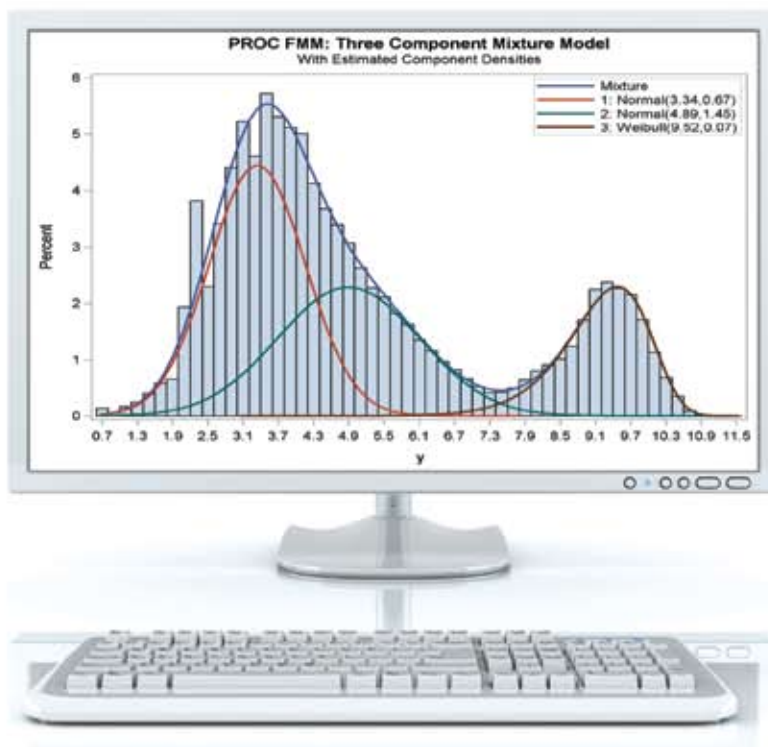
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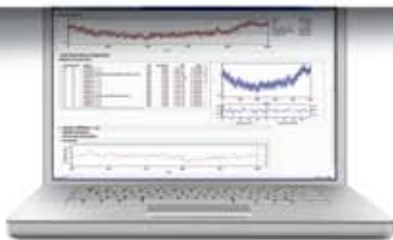




VISUAL ANALYTICS

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