Volume 38 • Issue 1

IMS Bulletin

January/February 2009

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Editor's Message

Xuming He writes:

The *IMS Bulletin* has been following through with the plans and wishes laid out in my editor's message in the January/February issue of 2007, by focusing on people, events, and the issues that our members care about. I am grateful to our Contributing Editors—Peter Bickel, Louis Chen, Rick Durrett, Nicole Lazar, and Terry Speed—and many others who keep sending us ideas and reports.

Yet we can do more. Today, I call upon more of our members to write to us with "IMS Members' News". If you, or your colleagues, have something to share, whether it is an honor, an award, or a discovery, do let us know (email bulletin@imstat.org). If it is something you care about, it's likely that your fellow IMS members will care about it too. You do not have be a department chair or an IMS executive to be a messenger. In fact, the *Bulletin* is for you, as a valued IMS member.

Speaking of sharing a discovery, I would like to interpret it very broadly. If your work leads to a new ozone model for better prediction or a new law of large numbers for epidemic models, just to make up two examples, you may wish to share your excitement with us. If a sufficiently large number of members write in this year, the *Bulletin* has the capacity to start a new series, "IMS Members' Discoveries". It will not be just a collection of abstracts, but it will feature the little (or big) discoveries that you have made through your scholarly work that can be shared and appreciated by many others.

On behalf of the editorial team at the *Bulletin*, I wish everyone a happy, healthy and productive new year!

WE WANT YOU

TO WRITE IN AND TELL US YOUR NEWS!

IMS Bulletin

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Executive Committee

IMS members' news

American Association for the Advancement of Science elects new Fellows

In November, the American Association for the Advancement of Science (AAAS) Council elected 486 members as new Fellows of AAAS, among whom are several IMS members. These individuals will be recognized for their contributions to science and technology at the Fellows Forum to be held on 14 February, 2009, during the AAAS Annual Meeting in Chicago (http://www.aaas.org/meetings/2009/). The IMS members who are 2008 AAAS Fellows are: Mark Becker, Executive Vice President for Academic Affairs and Provost, University of South Carolina; Richard T. Durrett, Professor of Mathematics, Cornell University and Member of the US National Academy of Sciences; Xuming He, Professor of Statistics, University of Illinois at Urbana-Champaign; George P. McCabe, Professor of Statistics, Associate Dean for Academic Affairs, College of Science, Purdue University; George C. Roussas, Professor of Statistics, University of California, Davis; Thomas J. Santner, Professor of Statistics, Ohio State University; and Bin Yu, Professor of Statistics, University of California, Berkeley. In addition, Bernie Devlin (University of Pittsburgh School of Medicine) and Leland Wilkinson (SYSTAT Inc) were elected AAAS Fellows in the Statistics Section.

International Chinese Statistical Association election news

The new ICSA President-Elect is Xuming He, University of Illinois at Urbana-Champaign. The newly-elected directors of the ICSA board (2009–2011) include IMS members Jianwen Cai, University of North Carolina at Chapel Hill; Tony Cai, The Wharton School, University of Pennsylvania; and Chunming Zhang, University of Wisconsin–Madison. Also elected as directors are Ouhong Wang, Medical Sciences at Amgen, and Jun Zhu, Institute of Bioinformatics at Zhejiang University.

Career Development Award

Ying Wei, Assistant Professor of Biostatistics, Columbia University, has received a Career Development Award from the NIEHS (National Institute of Environmental Health Sciences) Center for Environmental Health in Northern Manhattan, for her statistical work in quantile regression methods with applications to environmental health studies. Ying Wei obtained her PhD from University of Illinois at Urbana-Champaign in 2004, and has published actively in both statistics and health sciences journals. Her work has also been supported by NSF (as PI) and NIH (as co-investigator).


Ying Wei

I.J. Good honored with "The Good Book"

The Virginia Tech Department of Statistics has honored the contributions of IMS Fellow I. J. Good with a reception on the occasion of the publication of *The Good Book*. The book is a collection of his "comments, conjectures and conclusions", compiled with the assistance of David Banks and Eric Smith. These "CCCs", as Good calls them, cover a wide range of (mainly) statistical topics, including the law, computation, physics, biology, and statistical history. The book is available from Rice University Press.

I.J. Good has just turned 92, in December.

IMS members' news

Korean Statistical Society honored lecturers

Grace Wahba, University of Wisconsin at Madison, has been selected as the Ilsong Lecturer by the Korean Statistical Society this year, an honor given to renowned statisticians to deliver a plenary lecture at the annual meeting of the society.

The meeting took place at Chung-Ang University in Seoul, Korea on October 31 and November 1 in 2008. Grace gave a lecture entitled 'Combining Attribute Data and Sketchy Similarity/Network Information in Nonparametric Regression and Classification'. Also, Xuming He, University of Illinois at Urbana-Champaign, presented a special invited lecture in the meeting. The title of his lecture was 'A Quantile Approach to Ordinal Regression with Application to Aging Research'.

For Grace's first visit to Seoul, her former student, Yoonkyung Lee, The Ohio State University, accompanied her as a guide and interpreter, and Yoonkyung gave a tutorial on 'Kernel Methods in a Regularization Framework' as the opening program of the meeting.

They are all grateful to the committee members of the Korean Statistical Society who worked hard to run the meeting smoothly and especially to Professors Byeong U. Park (Seoul National University) and Tae Yoon Kim (Keimyung University) for their hospitality and thoughtful arrangements during the visit.

Left to right: Byeong U. Park, Yoonkyung Lee, Grace Wahba, and Xuming He after the Ilsong Lecture

Xihong Lin receives Janet L. Norwood Award

IMS Fellow Xihong Lin, Professor of Biostatistics at Harvard's School of Public Health, was the recipient of the Seventh Annual Janet L. Norwood Award for Outstanding Achievement by a Woman in the Statistical Sciences. She accepted the award at the University of Alabama at Birmingham on September 17, 2008.

Dr Lin received her BS in Applied Mathematics from Tsinghua University, MS in Statistics from the University of Iowa and PhD in Biostatistics from the University of Washington. Her research areas include statistical learning methods for high-dimensional data, dimension reduction, variable selection, nonparametric & semiparametric regression models, measurement error, mixed (frailty) models, estimating equations, and missing data. She is a Fellow of IMS and ASA, and an elected member of the International Statistical Institute. She was recipient of the COPSS Presidents' Award, as well as a National Cancer Institute MERIT Award recipient. Dr Lin has been a member of the editorial boards of *Biometrika*, *Biometrics*, *Statistica Sinica*, and *JASA*.

Journal News

AOAS special section: focus on Atmospheric Sciences

The December 2008 issue of the *Annals of Applied Statistics* contains a special section on Statistics in the Atmospheric Sciences. This special section highlights some of the areas in the atmospheric sciences in which statistical methods play a major role.

Some of the types of data studied in these papers include precipitation (both gage and radar data), measures of the atmospheric state (pressure, humidity, temperature and winds), ocean temperatures, air pollution levels (carbon monoxide and particulates), stratospheric ozone levels and human health outcomes. Statistical issues addressed include space-time statistical modeling, dimension reduction methods, methods for integrating multiple data sources and methods for combining data and output from large-scale numerical models.

This special section should be of broad interest to statisticians interested in processes that vary in both space and time as well as to atmospheric scientists who want to see how cutting edge statistics can be applied to their problems.

Brazilian Journal of Probability and Statistics

Silvia Ferrari is Editor-in-Chief of the *Brazilian Journal of Probability and Statistics*. She writes: The *Brazilian Journal of Probability and Statistics* (*BJPS*) is an official publication of the Brazilian Statistical Association and is supported by the Institute of Mathematical Statistics. It is published twice a year, in June and December. The Journal publishes papers in applied probability, applied statistics, computational statistics, mathematical statistics, probability theory and stochastic processes.

The web page of the Journal can be accessed at http://www.imstat.org/bjps. The contents of the most recent issue (volume 22, number 2, 2008) follow:

J. A. Achcar, E. A. Coelho-Barros and E. Z. Martinez: Statistical Analysis for longitudinal counting data in the presence of a covariate considering different "frailty" models

N. Mathur and H. P. Singh: Estimation of population mean with prior information using scrambled response technique

J. C. S. de Miranda: Probability density functions of the empirical wavelet coefficients of a wavelet estimator of multidimensional Poisson intensities

S. Nadarajah: Posterior distributions for the Laplace mean arising from ratios

D. R. Brillinger : Modelling game outcomes of the Brazilian 2006 series A championship as ordinal-valued

G. M. Cordeiro, I. Previdelli and R. W. Samohyl: Bias corrected maximum likelihood estimators in nonlinear overdispersed models

L. R. Souza: Spectral properties of temporally aggregated long memory processes

The list of papers accepted for publications is available at http://www.imstat.org/bjps/future_papers.html.

The editors invite submissions of papers on all areas of statistics and probability. For details on submitting articles to the BJPS, see http://www.imstat.org/bjps/mansub.html.

Much-loved IMS journal seeks good home!

Do you know of a needy institution or organization that would benefit from back issues of IMS journals? The IMS often hears from members who wish to donate their back issues of print journals and we are seeking to find "good homes" for these beloved journals. It is an opportunity to keep them out of landfills and help those who may not be able to purchase back issues at cost.

We prefer to receive contacts at institutions or groups of individuals in either developing countries or areas that have been hit by natural disaster and need to rebuild their library. We do ask those donating journals to ship the items directly to the institution in need, and to cover the cost for ground delivery.

If you have a suggested recipient in mind, or are in need of journals in your area, please contact the IMS Executive Director, Elyse Gustafson, by email: erg@imstat.org

IMS Awards: nominate or apply now

IMS Fellowship nomination

http://www.imstat.org/awards/fellows.htm

Deadline: January 31, 2009

Qualifications for Fellowship: The candidate shall have demonstrated distinction in research in statistics or probability, by publication of independent work of merit. This qualification may be partly or wholly waived in the case of either:

(1) a candidate of well-established leadership whose contributions to the field of statistics or probability other than original research shall be judged of equal value; or

(2) a candidate of well-established leadership in the application of statistics or probability, whose work has contributed greatly to the utility of and the appreciation of these areas.

Candidates for fellowship should be members of IMS on December 1 of the year preceding their nomination, and should have been members of the IMS for at least two years.

For details on how to nominate, please see the website above. Please also read the supporting information on the website, and pass on the information to letter-writers. Letters are expected explicitly to address the above IMS criteria for fellowship.

IMS Laha Travel Awards

http://www.imstat.org/awards/laha.html

Deadline: February 1, 2009

With funds from a generous bequest by the late Professor Radha Govind Laha, IMS has established the Laha Awards to provide funds for travel to present a paper at the 2009 IMS Annual Meeting, held at the Joint Statistical Meetings in Washington DC, August 1–6, 2009.

Eligibility: First priority to students, second priority to New Researchers within 2 years of PhD at the date of the meeting. Applicants must be members of IMS, though joining at the time of application is allowed. Student membership is free and New Researchers also qualify for substantially reduced rates.

Amount: Grants per award provided to Laha awardees have been typically around US$500. The actual amount of an award depends on the travel distance to the IMS statistical meeting. Grants will be reimbursed against receipts and may be combined with other sources of funding.

For details on how to apply, please see the website above.

Harry C Carver Medal

http://www.imstat.org/awards/carver.html

Deadline: February 1, 2009

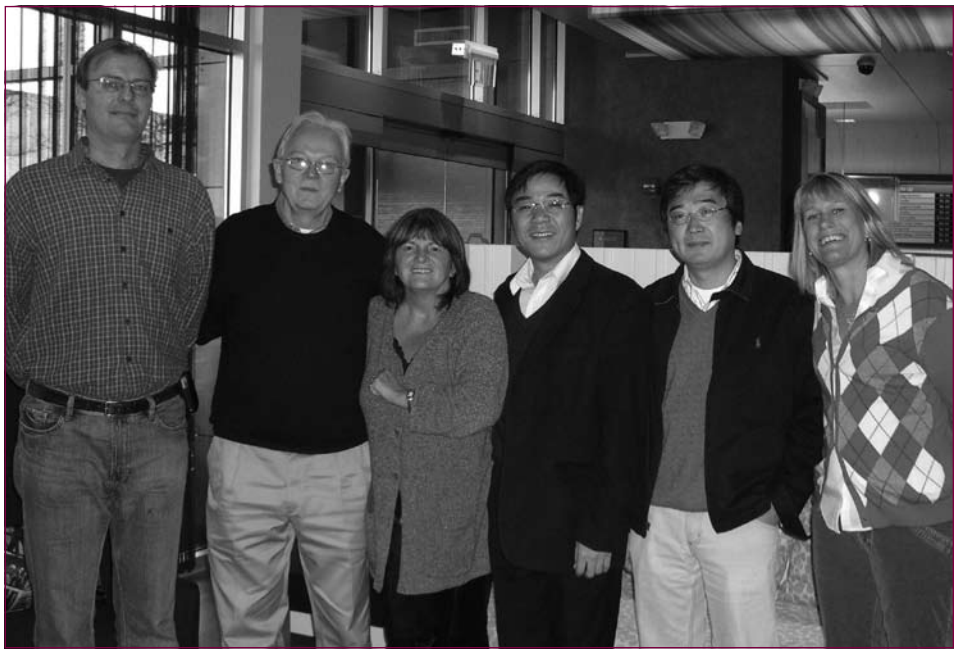
Nominations are invited for the Carver Medal created by the IMS in honor of Harry C. Carver, Founding Editor of the *Annals of Mathematical Statistics* and one of the founders of the IMS. The medal is for exceptional service specifically to the IMS and is open to any member of the IMS who has not previously been elected President. Not more than one award shall be made each year.

The medal will be awarded at a ceremony during the next IMS Annual Meeting in Washington DC.

The nominating committee consists of three former Presidents of the IMS.

For details on how to nominate, please see the website above.

IMS Executive Committee, 2008–2009



The IMS Executive Committee. Pictured from left to right are Guenther Walther (Program Secretary), Mike Steele (President-Elect), Nanny Wermuth (President), Jianqing Fan (Past-President), and Rong Chen (Treasurer); also Elyse Gustafson (Executive Director).

The Market for Scholarly Articles

Philip Davis contributes to the Society for Scholarly Publishing's blog, The Scholarly Kitchen, which is found at http://scholarlykitchen.sspnet.org/. In a post on November 10, 2008, he wrote:

The Storming of the Bastille, on July 14, 1789, painted by Jean-Pierre Houël (1735-1813). From Wikimedia Commons

The Internet was supposed to revolutionize publishing, and yet we still have journals, still have publishers (only fewer of them), and peer-review appears to be alive and well. There have been major developments as content moves online, but these incremental changes look more like the horseless carriage and less like the French Revolution. There has been no Storming of the Bastille in scholarly publishing.

The question I'd like to tackle [here] is why academics continue to spend their time, energy, and frustration getting their work published in reputable journals when they can distribute them more quickly and widely in a networked environment.

There is no easy answer to this question, and before I attempt to answer it, we have to have to go back—way back—to 1970.

In 1970, economist George Akerlof published an article entitled *"The Market for Lemons,"* a paper that would later help earn him a Nobel Prize in Economics. The article was about the used car market and what happens when buyers and sellers have different information. In other words, it was about markets with asymmetric information.

Economics doesn't always look like the real world. Classical economics is based upon perfect information, which means that everyone has a complete and current picture of what everyone else is doing. Its a nice idea for creating simple models, but not very realistic. Some authors have tried to extend this classical notion to the scholarly publishing market, considering articles to be commodities that can be traded on the free market (see http://dx.doi.org/10.1371/journal.pmed.0050201). As Kent Anderson recently wrote (http://scholarlykitchen.sspnet.org/2008/10/20/is-science-being-distorted/), this analogy is about as helpful as a train wreck.

The market idea, however, was on the right track, and we can consider the market for scholarly articles as having the following five properties:

i The market is huge (published articles number in the tens of millions)
ii There is immense variability in the quality of articles
iii Most authors (as sellers) are not in the market long enough to build a reputation for quality
iv Readers (as consumers) have a limited amount of attention, and
v The true quality of an article cannot be known until a paper has been read

Still with me? Let's now look at what this means for readers and authors. *As a reader*, I'm interested in reading relevant, high-quality articles. Because I often do not know the reputation of the author, I seek out quality signals that inform me whether an article is likely worth my while reading. When these quality signals prove to be correct time and again, they become heuristics, or simple rules-of-thumb. One of the strongest signals of quality for the reader is the journal in which the article is published.

As an author, I'm conscious that potential readers may not know me from Adam, and since there are so many trashy articles out there, I want to signal that mine is better. I'm willing therefore to invest time and resources — time and resources that could be put into doing more writing — into certifying that my work is high-quality. The strongest signal of quality for an author is the journal that accepts and publishes the article.

As I wrote in a previous post, there is evidence that some top authors — those who have already built a reputation for quality — are bypassing the lengthy peer-review process and seeking other forms of distribution (http://scholarlykitchen.sspnet.org/2008/10/06/the-end-of-peer-review/). These are individuals who broadcast their own quality signal, and therefore do not require another institution to do it for them.

In returning to the question posed earlier, why do academics continue to seek traditional publication outlets for their work, **we can starting thinking of publishers not as vehicles for distribution and dissemination of scholarly articles but as institutions that certify quality and broadcast these quality signals to a market of potential readers**. This system is not intended to be fair and democratic, but it saves the time of the reader and functions to help consensus-building in science.

For those who feel that this perpetuates hegemony, let them eat cake. ■

Meeting: Conference on Economics and Statistics

Conference in Economics and Statistics, in honor of T.W. Anderson's 90th Birthday

Peter Reinhard Hansen, Tze Leung Lai and Raja Velu (Stanford University and Syracuse University) report:

Theodore W. Anderson, past President and Council member of the IMS and Editor of the *Annals of Mathematical Statistics*, turned 90 in June, 2008. To celebrate the occasion, the Departments of Statistics and Economics at Stanford University organized a two-day conference over June 6th and 7th on campus. Conference details can be found at http://stat.stanford.edu/twa/.

The conference opened with welcoming remarks from Tim Bresnahan, Chair of the Economics Department, and from Trevor Hastie, Chair of the Statistics Department. The invited speakers included Kenneth Arrow, Cheng Hsiao, Naoto Kunitomo, Robert Mariano, Emanuel Parzen, Michael Perlman, James Powell, Thomas Rothenberg, Dylan Small, Michael Stephens, George Styan, Patrick Suppes, John Taylor, Raja Velu and Arnold Zellner. The talks covered various areas of Multivariate Analysis, Time Series and Econometrics, where Ted has made many fundamental and ground-breaking contributions.

In presenting their research, many speakers pointed out the over-arching influence of Ted's early work. Kenneth Arrow, 1972 Nobel Laureate in Economics, gave an overview of the early developments in econometrics in his talk, "Some Reminiscences of Econometrics in the 1940s", and profiled Ted's contribution to econometrics while he was a member of the Cowles Commission. The list of conference speakers included many of his former students, co-authors, and colleagues from Statistics and Economics. Ted was always in attendance, adding details about historical facts to many of the presentations. His comments as usual were crisp and right to the point, as seen in his interviews with Morris DeGroot for *Statistical Science* (1986) and with Peter Phillips for *Econometric Theory* (1986).

Ted continues to be very active in research. Some speakers described the results they obtained in recent collaboration with him. *The Collected Papers of T.W. Anderson*, edited by George Styan, covers a broad span of Ted's work up to 1985. He has published over 70 papers since then, and these works will be published in a collection soon.

The banquet held on the first day of the conference was a great success. There were over a hundred guests, including Ted's wife, Dorothy, and their children. Several attendees expressed their personal gratitude to Ted and Dorothy for their mentoring and hospitality.

Ted's 1945 doctoral dissertation had been scanned for the occasion and made available as a PDF file from the web page noted above. Its impact on econometrics and multivariate analysis was noted by several speakers, and the scanned version was unveiled to Ted on the second day of the conference. At the concluding session that day, a special issue (Number 9, Volume 138) of the *Journal of Statistical Planning and Inference*, edited in his honor, was presented to Ted by J.N. Srivastava, Editor-in-Chief of the journal.

[Above] Ted Anderson commenting on one of the presentations
[Left] Dorothy and Ted Anderson at the banquet

Cindy Greenwood: Queen of Probability

Nicholas H. Bingham and Igor V. Evstigneev are guest editors of a special issue of *Stochastics*, published as *IMS Lecture Notes – Monograph Series* Special Volume A. They write:

It is a pleasure to bring to the notice of IMS members the special issue of the journal *Stochastics* (Volume 80, Numbers 2,3, 2008) recently published as a Festschrift in honour of Professor Priscilla (Cindy) E. Greenwood. What follows is based on our introduction there (p.103–113).

Cindy Greenwood came to probability when at MIT, as a graduate student in OR. She had no background in probability or stochastics, but realized from her OR work that she needed one. Typically for Cindy, she promptly set about acquiring one—and if this meant jumping in at the deep end, so be it. It did: in 1960 Henry McKean was giving a graduate course on his work with Itô (leading to their 1965 book *Diffusion Processes and Their Sample Paths*; her classmates included Don Dawson, Bert Fristedt, Ramesh Gangolli and Ron Getoor). One thing led to another: Cindy took her PhD in probability theory in 1963 at the University of Wisconsin–Madison for a thesis on Wiener-Hopf theory written under Josh Chover.

After two years of teaching in North Carolina, Cindy went to the University of British Columbia, Vancouver in 1965; she was to stay at UBC for 34 years, less seven years of leave. There began a flood of papers, and a number of books, singly and with her numerous collaborators.

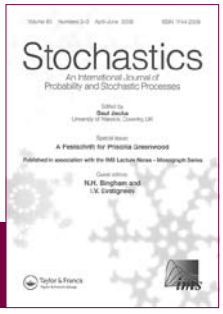
Cindy's early work included collaboration with Bert Fristedt (1970–71) on sample path properties of stable and Brownian variation, and with Moshe Shaked on fluctuations of random walks in higher dimensions. In 1976 she visited Stanford, where she worked with Sid Resnick on point process methods for Lévy processes and limit theorems. In 1977 she visited Cambridge, where she worked with Jim Pitman on splitting at the maximum. This work is now recognized as crucial for a proper treatment of fluctuation theory for Lévy processes (a topic dear to the heart of the first author, who met her in 1976), and is now featured in textbooks (see, for example, Chapter VI of Bertoin's *Lévy Processes*).

In the 1980s, Ed Perkins came to UBC, where he and Cindy worked on Brownian local time and excursions from boundaries. Cindy visited the Steklov Institute in Moscow, where she worked with Albert Shiryaev on the statistics of stochastic processes, leading to their 1985 book *Contiguity and the Statistical Invariance Principle*. Ron Doney visited UBC in 1980–81, leading to their joint work on ladder variables; Gerard Hooghiemstra also visited, and they worked on operators interpolating between sum and maximum. In 1983 she visited Charles Goldie at Brighton, where they worked on convergence of set-indexed processes. In 1986 Cindy was in Moscow and Leningrad (she was on the organizing committee for the Bernoulli Society meeting in Tashkent), leading to her work with Ildar Ibragimov on Bahadur efficiency, and her book with Mikhail Nikulin on chi-square tests (1996). In 1987 she visited Johns Hopkins, where she worked with Andrew Barbour on Stein's method, and began a long collaboration with Wolfgang Wefelmeyer on Le Cam theory for semimartingales. Other collaborations included Sasha Novikov, on boundary crossing for Lévy processes (1986) and Mina Ossiander, on limit theorems for random fields (1989).

In 1990, Igor Evstigneev visited UBC, leading to their AMS Memoir on splitting and extremes of random fields—a return to fluctuation theory, splitting and higher dimensions. In 1997 Cindy visited the University of Kent at Canterbury, where, with Howell Tong and others, she became interested in synchronisation for geographically-related populations (including the Canadian lynx, muskrat and Hokkaido vole).

A UBC initiative in the 1990s led to Cindy winning a research contract on crisis points and models for decision. This began her subsequent involvement in such areas as stochastic resonance and $1/f$ noise. One of her 'crisis points' visitors was Peter Killeen of the Department of Psychology at Arizona State University. Again one thing led to another, and Cindy eventually left UBC for ASU in 2000. She found herself giving a graduate course of stochastic modelling in biology. In recent years, she has become more and more deeply involved with projects whose motivation is biological (one is reminded of the later Sam Karlin here).

Probabilists (such as ourselves) think of Cindy as a probabilist, and indeed her work on the general area of Wiener-Hopf theory, fluctuation theory and splitting has been ongoing. But Cindy has never been a person content to be categorized. She has done much work in statistics, including Le Cam theory, contiguity, chi-square tests and MCMC. She has also done lots of stochastic modelling, culminating in her most recent interest, in biology. Cindy Greenwood is a very powerful, versatile and productive scholar, with lots of good work to her credit. She is also an inspiration in human terms, to her many friends and collaborators and to the profession generally. It is a pleasure to salute her on the occasion of the publication of her Festschrift.



You can order your copy ($20 for IMS members, $35 for non-members) online at http://imstat.org/publications/lecnotes.htm

Nominate for an award

Request for Nominations for 2009 Distinguished Alum Award at Harvard School of Public Health

The Distinguished Alum Award is annually presented to a former graduate of the Biostatistics Department working in government, industry, or academia, who by virtue of applications to support of research, methodology and theory, significant organizational responsibility, and teaching has impacted the theory and practice of statistical science. The overall career of the individual is considered with an emphasis on how the nominee has used their experience to bring out the best in life with research and academics. The award recipient will be invited to deliver a lecture on their career and life beyond the Department at the Harvard School of Public Health, for the primary benefit of our students. The recipient will also be presented with a plaque.

The recipient of the 2008 Distinguished Alum Award was Robert Strawderman of Cornell University (pictured below).

Harvard School of Public Health

[Left] Harvard School of Public Health's 2008 Distinguished Alum Award winner Dr. Robert Strawderman, with presenter Dianne Finkelstein

Receiving the award in previous years were Masahiro Takeuchi of the Kitasato University School of Pharmaceutical Sciences, and Daniel Siegel, 1961 Harvard Alum.

Nominations for the award, to be given in May/June 2009, should be sent to the *Distinguished Award Committee, Dept. of Biostatistics, Harvard School of Public Health, 655 Huntington Ave., Boston, MA 02115*. Nominations should include a letter describing the contributions of the candidate, specifically highlighting the criteria for the award, and curriculum vitae. Supporting letters and materials are welcome but not required.

The deadline for submission of nominations is January 31, 2009.

2009 Mortimer Spiegelman Award: Call for Nominations

The Statistics Section of the American Public Health Association invites nominations for the 2009 Mortimer Spiegelman Award, honoring a statistician aged 40 or younger who has made outstanding contributions to health statistics, especially public health statistics. The award was established in 1970 and is presented annually at the APHA meeting.

The award serves three purposes

To honor the outstanding achievements of both the recipient and Spiegelman

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

To increase awareness of the APHA and the Statistics Section in the academic statistical community

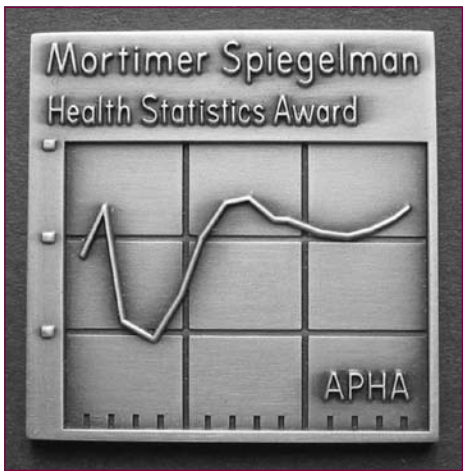
Nominations for the 2009 Award must be submitted by April 1, 2009.

To be eligible for the 2009 Spiegelman Award, a candidate must have been born in 1969 or later. Please state in the nominating letter the candidate's birthday. The nominator should include one or two paragraphs in the nominating letter describing how the nominee's contributions relate to public health concerns. A maximum of three supporting letters per nomination can be provided. Please send a nominating letter and the candidate's CV to:

2009 Spiegelman Award Committee
c/o Francesca Dominici, Chair
Department of Biostatistics
Bloomberg School of Public Health
615 North Wolfe Street
Baltimore, MD 21205

Email inquires may be made to fdominic@jhsph.edu

Further details about the award, including the list of past recipients and more information about the Statistics Section of APHA, can be found at http://www.aphastat.org/.



Obituary: David A. Freedman

1938–2008

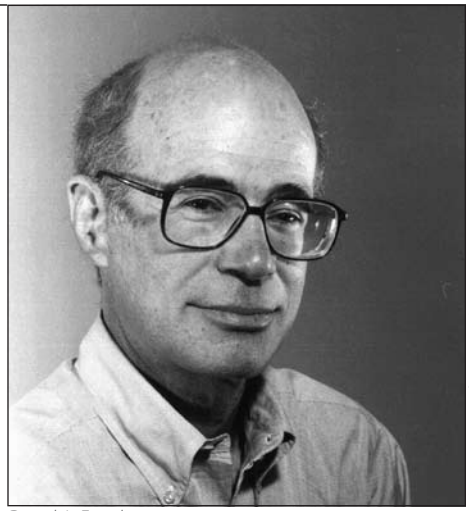


Photo courtesy of Janet Macher

David A. Freedman

David A. Freedman, professor of statistics at the University of California, Berkeley, died of bone cancer in his home in Berkeley on 17 October, 2008, aged 70.

Freedman was a fellow of IMS and the American Statistical Association, and a member of the American Academy of Arts and Sciences. He won the 2003 John J. Carty Award for the Advancement of Science from the National Academy of Sciences, "for his profound contributions to the theory and practice of statistics, including rigorous foundations for Bayesian inference and trenchant analysis of census adjustment." He was a Fellow at the Miller Institute for Basic Research in Science in 1990, an Alfred P. Sloan Foundation Fellow in 1964–66, and a Canada Council Fellow at Imperial College London in 1960–61.

Freedman was born in Montréal, Canada, on 5 March, 1938. He received a BSc from McGill University in 1958, and an MA and a PhD from Princeton University in 1959 and 1960, respectively. He joined the UC Berkeley Department of Statistics in 1961 as a lecturer, and was appointed to the research faculty in 1962. He remained at Berkeley his entire career.

He started his professional life as a probabilist and mathematical statistician with Bayesian leanings but became one of the world's leading applied statisticians and a circumspect frequentist. In his words:

> *My own experience suggests that neither decision-makers nor their statisticians do in fact have prior probabilities. A large part of Bayesian statistics is about what you would do if you had a prior. For the rest, statisticians make up priors that are mathematically convenient or attractive. Once used, priors become familiar; therefore, they come to be accepted as 'natural' and are liable to be used again; such priors may eventually generate their own technical literature… Similarly, a large part of* [frequentist] *statistics is about what you would do if you had a model; and all of us spend enormous amounts of energy finding out what would happen if the data kept pouring in.*

(Freedman, D.A., 1995. Some Issues in the Foundations of Statistics, *Foundations of Science*, 1, pp. 19–39)

Freedman continued to work on probability and foundational issues, such as the limits of statistical methodology, the virtues of well-designed observational studies, techniques for causal inference, and the interpretation of probability. He made major contributions to theoretical and applied statistics, statistical education, and statistics in law and public policy. His written legacy includes six books, 200 papers and 20 technical reports. He advanced the theory of the bootstrap, martingale inequalities, Markov chains, de Finetti's theorem, hierarchical Bayes models, the use of regression to analyze experimental data, and other topics. He studied whether adjusting the census for undercount would improve its accuracy, whether earthquake forecasts make sense, whether hormone replacement therapy saves lives, whether the Swine flu vaccine causes Guillain-Barré syndrome, and whether high salt intake causes hypertension, among other scientific questions. A hallmark of his research is painstaking attention to all aspects of a problem—including experimental design, data collection, statistical methodology, and mathematics.

By his own account, Freedman's transition to applied work was in part a response to the challenge of undergraduate teaching. On observing that students were not inspired by the stylized examples in textbooks, Freedman ferreted out compelling illustrations of basic statistical issues in the primary literature of a wide range of fields. One of the capstones of that exploration is the highly regarded undergraduate text, *Statistics*, co-authored with Robert Pisani and Roger Purves. That book was a landmark when it was published in 1978 and continues to be highly regarded and influential in its fourth edition. Built on serious examples from economics, epidemiology, medicine, and social science, it is meticulously accurate, emphasizing statistical thinking over formulae.

Berkeley was long famous for statistical theory; less so for applied work. Recognizing the fertility of the interplay of theory and scientific applications, Freedman helped transform the department into a powerhouse for mathematically-informed applied work. Freedman was instrumental in recruiting Leo Breiman, Jack Kiefer, and Charles Stone, and in acquiring the department's first computer, which he made usable. While department chair from 1981 to 1986, Freedman reorganized the undergraduate program to emphasize applied statistics. He regularly taught a graduate course in statistical consulting and for many years supervised the Statistical Consulting Service, which continues to serve campus researchers in a broad spectrum of disciplines and to provide real-world experience for statistics graduate students.

Freedman was a consulting or testifying expert on statistics in disputes involving employment discrimination, fair loan practices, voting rights, duplicate signatures on petitions, railroad taxation, ecological inference, flight patterns of golf balls, price scanner errors, bovine spongiform encephalopathy ("mad cow disease"), and sampling. He consulted for the Bank of Canada, the Carnegie Commission, the City of San Francisco, the County of Los Angeles, and the Federal Reserve, as well as the US departments of energy, treasury, justice, and commerce. Freedman and his colleague Kenneth Wachter testified to Congress and the courts against adjusting the 1980 and 1990 censuses using estimates of differential undercounts. A 1990 lawsuit that sought to compel the Department of Commerce to adjust the census was heard on appeal by the US Supreme Court, which ruled unanimously in favor of the Commerce Department and Freedman and Wachter's analysis. With David Kaye, Freedman wrote a widely used primer on statistics for lawyers and judges published by the Federal Judicial Center, the education and research agency for the Federal courts.

In addition to his work in forensic statistics, Freedman had a broad impact on the application of statistics to important medical, social, and public policy issues, such as clinical drug trials, epidemiological studies, economic models, and the interpretation of scientific experiments and observational studies. In his applied work, Freedman emphasized exposing and checking the assumptions that underlie standard methods, as well as understanding how those methods behave when the assumptions are false. He characterized circumstances in which the methods continue to perform well, and those where they break down—regardless of the quality of the data.

Freedman is survived by his wife, Janet Macher; stepmother, Charlotte Freedman of Montréal, Canada; children Joshua of Corralitos, CA, and Deborah Freedman Lustig of Walnut Creek, CA; his first wife, Shanna Helen (Wittenberg) Swan of Rochester, NY; and four grandchildren.

Donations in memory of David A. Freedman may be made to the UC Berkeley Foundation, c/o University Relations, 2080 Addison St., Berkeley, CA 94720-4200.

Philip B. Stark
University of California, Berkeley

Annual Survey report

Nicole Lazar writes: The Annual Survey of the Mathematical Sciences is directed by a joint committee of the AMS, ASA, IMS, MAA and SIAM. The 2007 Annual Survey represents the fifty-first in an annual series begun in 1957 by the AMS. The 2007 Annual Survey Reports have been published in the *Notices of the American Mathematical Society*. Some highlights from all three 2007 reports are detailed below. Full copies of all reports published since 1957 are available at http://www.ams.org/employment/surveyreports.html.

1: The First and Second Reports

The first report lists 1157 new doctoral recipients in the Mathematical Sciences from US universities in 2006–2007. This is a drop compared to the previous year, as fewer departments responded to the survey in time for the first report. The update in the second report shows 1,333 new recipients in 2006–2007, compared to 1,311 in 2005–2006, continuing an upward trend that started in 2003–2004. Doctorates in the field of Statistics and Biostatistics continue to form the largest group, with 410—a considerable increase over last year, when 372 doctorates were granted in these disciplines. Only 357 of these were granted by Statistics or Biostatistics departments as defined by the AMS. The next largest group is Algebra and Number Theory, with 193.

Of the new doctoral recipients, over all groups combined, 576 (or 43%) are US citizens. This is the highest number of US citizens reported over the past ten surveys.

Of the 1,333 new doctorates, 446, or 33%, are female. This is little changed from the previous year, when 32% of the new recipients were women. However, in Statistics or Biostatistics, 49% of the new doctoral recipients are women. Out of the 576 US citizens, 180 (31%) are female.

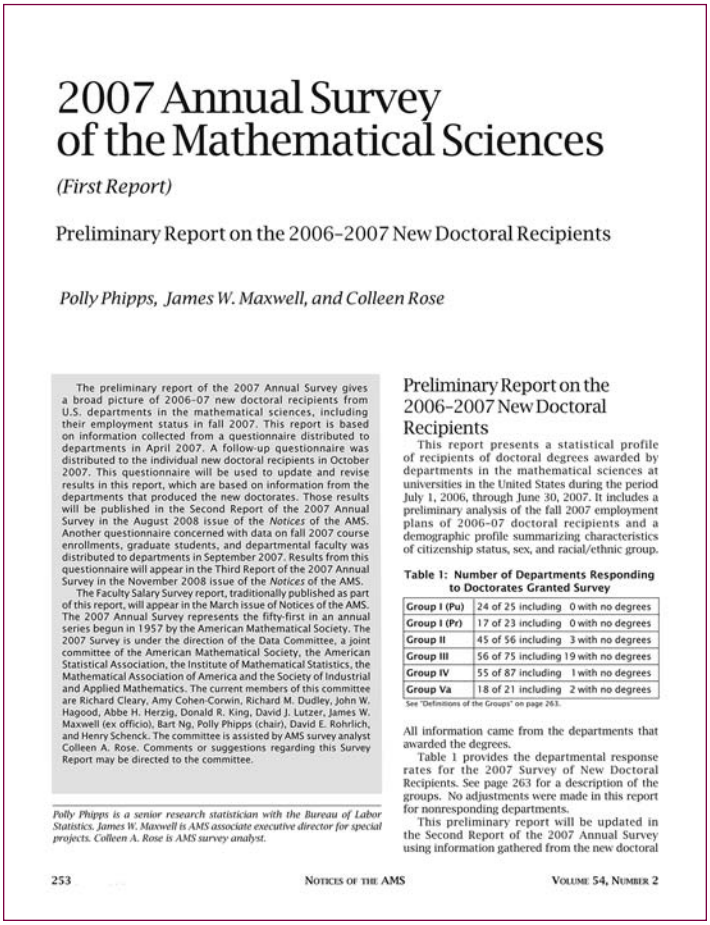
Employment figures for the new doctoral recipients are quite good. Of the 1,190 in all groups combined with known employment status at the time of the second report, 2.4% are unemployed; this is a continuation of a decreasing trend in unemployment from 2003 and is the lowest reported figure since 1990. The number of new PhDs employed in US academic positions is 756; this is the highest number reported over the past twenty-six years. The Statistics/Biostatistics group, not unnaturally, continues to find more jobs in industry and government, and fewer in academia, than the other groups in the Mathematical Sciences. The number of new PhDs with field of thesis in Statistics/Biostatistics taking jobs in business and industry is 130.

Salaries for academic Biostatisticians continue to be higher than those for Statisticians, not unexpectedly. However, both groups still compare favorably to the rest of the Mathematical Sciences, and this is true across ranks.

It is also worth noting that the response rate for Statistics/Biostatistics/Biometrics departments ("Group IV" in the Annual Survey) is much lower than in the other groups. Since this group is also the largest group of departments in the Survey, the low response rate has an effect on the overall findings, as well as on the results for this group. [*We'd like to encourage departments in this group to respond to the survey when contacted.*]

The Employment Experiences of New Doctoral Recipients (EENDR) survey is sent to the recipients with known addresses at the time of the first report. These data are not broken down by field of study, so we report on the figures as a whole, with no separate discussion for statistics.

1,028 of the 1,157 recipients from the first report had known addresses. These were sent the EENDR survey in October of 2007; 547 (47%) responded. As might be expected, response rates differed according to type of employment. The highest response rate was among those employed in US academic institutions. The lowest



2007 Annual Survey of the Mathematical Sciences

(First Report)

Preliminary Report on the 2006–2007 New Doctoral Recipients

Polly Phipps, James W. Maxwell, and Colleen Rose

The preliminary report of the 2007 Annual Survey gives a broad picture of 2006–07 new doctoral recipients from U.S. departments in the mathematical sciences, including their employment status in fall 2007. This report is based on information collected from a questionnaire distributed to departments in April 2007. A follow-up questionnaire was distributed to the individual new doctoral recipients in October 2007. This questionnaire will be used to update and revise results in this report, which are based on information from the departments that produced the new doctorates. Those results will be published in the Second Report of the 2007 Annual Survey in the August 2008 issue of the *Notices* of the AMS. Another questionnaire concerned with data on fall 2007 course enrollments, graduate students, and departmental faculty was distributed to departments in September 2007. Results from this questionnaire will appear in the Third Report of the 2007 Annual Survey in the November 2008 issue of the *Notices* of the AMS.

The Faculty Salary Survey report, traditionally published as part of this report, will appear in the March issue of Notices of the AMS. The 2007 Annual Survey represents the fifty-first in an annual series begun in 1957 by the American Mathematical Society. The 2007 Survey is under the direction of the Data Committee, a joint committee of the American Mathematical Society, the American Statistical Association, the Institute of Mathematical Statistics, the Mathematical Association of America and the Society of Industrial and Applied Mathematics. The current members of this committee are Richard Cleary, Amy Cohen-Corwin, Richard M. Dudley, John W. Hagood, Abbe H. Herzig, Donald R. King, David J. Lutzer, James W. Maxwell (ex officio), Bart Ng, Polly Phipps (chair), David E. Rohrlich, and Henry Schenck. The committee is assisted by AMS survey analyst Colleen A. Rose. Comments or suggestions regarding this Survey Report may be directed to the committee.

Polly Phipps is a senior research statistician with the Bureau of Labor Statistics. James W. Maxwell is AMS associate executive director for special projects. Colleen A. Rose is AMS survey analyst.

Preliminary Report on the 2006–2007 New Doctoral Recipients

This report presents a statistical profile of recipients of doctoral degrees awarded by departments in the mathematical sciences at universities in the United States during the period July 1, 2006, through June 30, 2007. It includes a preliminary analysis of the fall 2007 employment plans of 2006–07 doctoral recipients and a demographic profile summarizing characteristics of citizenship status, sex, and racial/ethnic group.

Table 1: Number of Departments Responding to Doctorates Granted Survey

Group I (Pu)	24 of 25 including 0 with no degrees
Group I (Pr)	17 of 23 including 0 with no degrees
Group II	45 of 56 including 3 with no degrees
Group III	56 of 75 including 19 with no degrees
Group IV	55 of 87 including 1 with no degrees
Group Va	18 of 21 including 2 with no degrees

See "Definitions of the Groups" on page 263.

All information came from the departments that awarded the degrees.

Table 1 provides the departmental response rates for the 2007 Survey of New Doctoral Recipients. See page 263 for a description of the groups. No adjustments were made in this report for nonresponding departments.

This preliminary report will be updated in the Second Report of the 2007 Annual Survey using information gathered from the new doctoral

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response rate was among those employed in non-US, academic institutions (54% for the former versus 38% for the latter). Of the individuals responding to the survey, 486 are employed in the US, including 259 in permanent positions, and 227 in temporary position. Both of these numbers represent decreases compared to last year, however the percentage of those taking a permanent position increased from 51% to 53%. Of the 227 in temporary jobs, 88 reported that they could not find a suitable permanent position. Most of the temporary positions were classified by respondents as postdoctoral.

Among those employed in the US in permanent positions, 68% are in academia, consistent with previous years. Of the 227 individuals with temporary employment in the US, 93% this year were in academia, the same as last year. Women held 34% of the permanent positions.

The median age of new doctoral recipients was 30 years, while the mean was 32 years, in line with the findings from previous years.

2: The Third Report

The third report gives information on faculty size, departmental enrollments, majors, and graduate students for departments of mathematical sciences.

The number of non-doctoral full-time faculty in mathematics departments (not including statistics) is estimated at 3,839, down slightly from last year. The estimated number of part-time faculty is 7,065, up considerably from 6,543 last year. The number of full-time doctoral non-tenure-track faculty continued to increase this year. In 2007, that number was 1,576, compared to 993 in 2000 (an increase of 59%). In statistics departments, the number of non-doctoral full-time faculty is estimated at 73, the estimated number of part-time faculty is 149, and the number of full-time doctoral non-tenure-track faculty is 378 (which includes postdocs).

Female faculty make up from 13% to 32% of the full-time faculty in the various types of mathematics departments. The lowest proportions are in the "Group 1 private and public" institutions. These are the 48 doctoral-granting departments with the highest rankings of the scholarly quality of their faculty. The highest proportions of female faculty are in the "Group M" and "Group B" institutions, which contain departments granting a master's or a bachelor's degree, respectively, as the highest degree. In statistics, 29% of full-time faculty is female, a higher proportion than in any of the doctoral granting mathematics departments.

In terms of faculty recruitment, the numbers look rather bleak compared to the previous year. Of the 1,786 full-time positions, 1,131 were tenure-track or tenured, a decrease of 8% from the previous year. Of the 1,786 positions, 1,564 were open to new PhDs, and of these, 935 were tenured or tenure-track, a decrease of 10% compared to 2005–2006. In statistics, there were 160 posted doctoral positions, of which 130 were tenure-track or tenured; 102 of these were open to new PhDs.

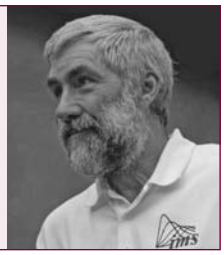
In mathematics departments as a whole, total undergraduate course enrollments have remained more or less steady from 1999 through 2007. In statistics, undergraduate enrollment has been increasing since 2003. Graduate enrollments in statistics increased steadily from 1999 to 2003, and then remained more or less constant; the enrollments in mathematics departments tended to be more variable, particularly at the undergraduate level. Across all the mathematical sciences, including statistics, the undergraduate enrollments per faculty member had been on a decreasing trend since 1999, but in recent years this has reversed.

Approximately 43% of undergraduate degrees awarded last year in statistics were awarded to women. This compares to about 41% of undergraduate degrees awarded to women in mathematics departments (excluding computer science degrees). About half of the master's degrees awarded in statistics last year were to women, compared to 40% in mathematics departments.

The estimated number of full-time graduate students in mathematics departments decreased from 10,984 in fall 2006, to 10,937 in fall 2007. Overall in the doctoral granting mathematics departments, the numbers of full-time graduate students and of full-time graduate students that are female, were decreased. The numbers of full-time graduate students who are US citizens, of full-time graduate students in their first year, and of full-time graduate students that are US citizens and in their first year were increased. The number of full-time graduate students in statistics decreased compared to last year. Compared to mathematical sciences as a whole, statistics graduate students are less likely to be US citizens and more likely to be female. ■

Terence's Stuff: *It's job-hunting time!*

Looking for a job? Consider carefully what you want—and what you are capable of—rather than the scattergun approach Terry Speed sees.



Right now, A of you are Applying for jobs (including postdocs), R of you are Reading job applications, and L of you will be Listening to job talks in the coming months. I think I've got my numbers in the right order when I predict $A < R < L$. After all, every job should have a committee of at least three people associated with it, so if there are J job openings, there must be $R \geq 3J$ people involved in filling these openings, presumably all reading applications. If $A > 3J$, I'd be surprised. In fact, I think it might be the case that $A \approx J$, though it's hard right now to predict the impact of the recession on 2009 hiring. I hope and expect that $R < L$.

Several other figures are relevant here: the number I of people Interviewed per job, the numbers M of people involved in Meeting applicants when they visit, the number D of people who Dine with them, and the Total number T of applications in the system. It is the size of I and average number $S = T/A$ of applications Submitted per applicant that prompts me to write. They seem far too large to me.

I've been associated with the job-hunting process from most angles over the last forty years. These days I write in support of people on the job market, sit on hiring committees, go to job talks, meet job applicants and eat job dinners. To me, the most striking aspects of the whole process is the fact that so many job-hunters send out so many applications, and so many get interviewed at each place. My unscientific estimate of S is *ten to twenty,* or more, while I can be *six* or more. Of course, the two figures are intimately connected.

It has always seemed to me that a far better approach for a job-hunter is to focus on those few jobs for which they feel genuinely well matched, for which their chances of success are reasonable, and which they would accept immediately if offered. However, I've promoted this to the job-hunters where I work and elsewhere for many years now, and had little success. What almost everyone seems to do is send off many, say ten, twenty or more applications, and "let the market decide." Comments about the efficiency of the market would seem to be unnecessary right now, but I do want to comment on this strategy a little, if only to give you all ammunition for shooting down my alternative.

One of the consequences of what I'll call the marketplace strategy is the following. People who look desirable get lots of interviews, and get run off their feet giving their job talk all over the place. In discussions and over dinner, they have to feign genuine interest in joining each place they visit. Only when the offers start rolling in—which is, naturally, only after everyone has talked—do they begin the process of thinking where they would really *like* to be, typically aiming for the "best" place, or for the "best" deal. People who don't seem quite as desirable get fewer invitations, and must wait until the more highly ranked people have made up their minds, before they start getting offers. Those lower down on the list wait longer still.

On the other side, departments with a job to fill are forced to interview many more applicants than they might wish, for the ones to which they will eventually make offers might go elsewhere.

I don't want to suggest all the problems are due to applicants. Hiring committees can be lazy too, preferring to request many interviews rather than think hard about just what kind of person they are looking for, or read the applications carefully and eliminate unsuitable people early on. But, having said that, the applications themselves are frequently unhelpful for this purpose, as the same letters are sent to every institution. Determining how well an applicant fits one's opening is frequently impossible without meeting them. The careful tailoring of each application and its supporting letters to the job opening to which they will be sent is exactly what doesn't happen, which is part of my gripe.

This is a cycle which I look to job hunters to break. I can think of no better exercise for them than to study the available openings carefully, first, to decide which openings they could happily fill, and secondly, which they have a realistic prospect of being invited to fill. The next step would be carefully-written, genuine applications for the jobs satisfying both criteria. If there are no such, then some introspection and re-calibration is required. If there are many, then the job hunter is happy indeed, or being unrealistic. Am I dreaming?

IMS meetings around the world

IMS sponsored meeting

JSM2009

August 1–6, 2009

Washington DC

w www.amstat.org/meetings/jsm/2009/

The next IMS Annual Meeting will take place as part of the 2009 Joint Statistical Meetings, which will be held in Washington DC. The theme of the JSM is *"Statistics: From Evidence to Policy"*.

The IMS Invited Program Chairs are Michael Kosorok kosorok@unc.edu and Xiaotong Shen xshen@stat.umn.edu. IMS Contributed Program Chair is Elizaveta Levina elevina@umich.edu

Photo: Destination DC

Walter E. Washington Convention Center.

JSM travel awards for new researchers

The IMS Laha Travel Awards fund travel to present a paper at the IMS Annual Meeting. The application deadline is February 1, 2009. Details are available at the website http://www.imstat.org/awards/laha.html

Twelfth North American Meeting of New Researchers in Statistics and Probability NEW

July 28–31, 2009

Johns Hopkins University, Baltimore, MD

w http://www.biostat.umn.edu/~tracyb/nrc.html

The New Researchers' Committee of the IMS is organizing a meeting of recent PhD recipients in Statistics and Probability. The purpose of the conference is to promote interaction among new researchers primarily by introducing them to each other's research in an informal setting. All participants are expected to give a short, expository talk or contribute a poster on their research. Anyone who has received a PhD since 2004 or expects to receive a PhD by 2009 is eligible to attend. The meeting is to be held prior to the 2009 Joint Statistical Meetings in Washington DC (see above). Abstracts for these papers and posters will appear on the NRC meeting website.

To apply, please submit a letter of interest, curriculum vitae and title and abstract to:

Tracy L Bergemann
Division of Biostatistics
University of Minnesota
MMC 303, 420 Delaware St SE
Minneapolis, MN 55455
Email: berge319@umn.edu

Electronic mail is preferred for abstract submission. Deadline for receipt of applications is February 1, 2009. Please apply promptly since the number of participants is limited. Priority will be given to first time participants. Women and minorities are encouraged to apply. Also, contingent on the availability of funds, support to defray travel and housing costs will be offered.

At a glance: forthcoming IMS Annual Meeting and JSM dates

2009

IMS Annual Meeting @ JSM: Washington DC, **August 1–6, 2009**

2010

JSM: Vancouver, Canada, **July 31–August 5, 2010**

IMS Annual Meeting: Gothenburg, Sweden, **August 9–13, 2010**

2011

IMS Annual Meeting @ JSM: Miami Beach, FL, **July 30–August 4, 2011**

2012

JSM: San Diego, CA, **July 28–August 2, 2012**

IMS Annual Meeting @ World Congress: İstanbul, Turkey, **Date TBA**

2013

IMS Annual Meeting @ JSM: Montréal, Canada, **August 3–8, 2013**

More IMS meetings around the world

IMS co-sponsored meeting

Fifth Cornell Probability Summer School
July 6–17, 2009
Cornell University, Ithaca NY

w http://www.math.cornell.edu/~durrett/CPSS2009/

The Fifth Cornell Probability Summer School will feature six lecture series by Ander Holroyd, *"Matching, coupling, and point processes"*; Robin Pemantle, *"Probability from generating functions"*; and Yuval Peres, *"Aspects of Markov chains"*. Co-starring will be Rick Kenyon, Scott Sheffield, and Balint Virag, who will each give two lectures.

The conference web page has more information, and a registration form for people who would like to participate.

All accepted participants will have their dorm room paid for. US participants can apply for **support for travel** and $200 toward the cost of meals. This meeting is supported by a Research Training Group grant from the National Science Foundation to the probability group at Cornell.

An extra incentive for attending this year's summer school is that the INFORMS Applied Probability Society Conference will be held in Ithaca from July 12–15, 2009.

IMS co-sponsored meeting:

IMS Asia Pacific Rim Meeting
June 28 – July 1, 2009. Seoul, Korea

w http://ims-aprm.org/

The first IMS Asia Pacific Rim Meetings will take place in Seoul, Korea during the period June 28–July 1, 2009. The new meeting series will provide an excellent forum for scientific communications and collaborations for researchers in Asia and the Pacific Rim. It will also promote communications and collaborations between researchers in this area and those from other parts of the world. The program covers a wide range of topics in statistics and probability, presenting recent developments and the state of the art in a variety of modern research topics and in applications. For more information, visit http://ims-aprm.org/ or contact the program chairs: Feifang Hu (fh6e@virginia.edu) or Runze Li (fh6e@virginia.edu)

IMS co-sponsored meeting

Seventh Workshop on Bayesian Nonparametrics
June 21–25, 2009
Collegio Carlo Alberto, Moncalieri, Italy

w http://bnpworkshop.carloalberto.org/

The aim of the Workshop is to highlight the latest developments in Bayesian Nonparametrics covering a wide variety of both theoretical and applied topics. The meeting will be held at the Collegio Carlo Alberto, a research institution housed in an historical building located in Moncalieri on the outskirts of Turin, Italy.

Contact **e** bnp@carloalberto.org

IMS co-sponsored meeting

Sixth Cornell Probability Summer School
July 18–31, 2010. Ithaca, NY

IMS co-sponsored meeting

Seventh Cornell Probability Summer School
Dates TBA, July 2011. Ithaca, NY

IMS co-sponsored meeting

2009 ENAR/IMS Spring Meeting
March 15–18, 2009
Grand Hyatt San Antonio, San Antonio, TX

w http://www.enar.org/meetings.cfm

IMS co-sponsored meeting

2010 ENAR/IMS Spring Meeting
March 21–24, 2010
Hyatt Regency New Orleans, New Orleans, LA

w http://www.enar.org/meetings.cfm

IMS co-sponsored meeting

2009 Spring Research Conference on Statistics in Industry and Technology
May 27–29, 2009. Vancouver, Canada

w http://www.stat.sfu.ca/~boxint/src2009/

Please email questions to Boxin Tang, boxint@stat.sfu.ca.

The goal of the conference is to promote cross-disciplinary research in statistical methods in engineering, science and technology. This covers a wide range of application areas including environment, information and manufacturing sciences. The conference will provide a forum where participants can describe current research, identify important problems and areas of application, and formulate future research directions.

IMS co-sponsored meeting

International Symposium in Statistics (ISS) on Inferences in Generalized Linear Longitudinal Mixed Models (GLLMM)
July 20–22, 2009
Memorial University, St John's, Canada

w www.iss-2009-stjohns.ca

The objective of this ISS is to bring together a set of speakers and discussants to describe the latest research such as parametric and non-parametric inferences in this emerging area with applications to Biostatistics, Econometrics, and Ecological and Environmental studies, among others.

IMS co-sponsored meeting

33rd Conference on Stochastic Processes and their Applications
July 27–31, 2009
Berlin, Germany

w http://www.math.tu-berlin.de/SPA2009/

Featuring two IMS Medallion Lectures, from Claudia Klüppelberg and Gordon Slade, a Lévy Lecture from Amir Dembo, and a Doob Lecture from Ed Perkins.

Organizing committee chair: Jochen Blath; co-chair: Peter Imkeller.

IMS Reps to Program Committee: David Aldous, Martin Barlow, Gérard Ben Arous, Mu-Fa Chen, Anna de Masi, Hans Föllmer, Luis Gorostiza, Dmitry Kramkov, Russ Lyons, Claudia Neuhauser, Ed Waymire, and Ofer Zeitouni.

Travel grants for US participants (recent PhDs, women, minorities)

Funding is anticipated from the US National Science Foundation for approximately 20 travel awards of about $1000 each to help defray the travel costs of junior researchers, women, and members of under-represented minorities from the United States participating in the 33rd Conference on Stochastic Processes and Their Applications. Junior researchers are those who received their PhDs in 2002 or later, or who are advanced graduate students working on PhD dissertations. All applicants must be affiliated with a US institution, live in the US, and not have an individual NSF grant. Following standard NSF restrictions concerning travel, recipients of travel grant funds for airfare must travel on US carriers. All grant recipients must provide receipts for expenses to be reimbursed, whether for airfare, lodging or subsistence, and the receipt must show that you paid. These will need to be submitted after the conference and without delay by mail with the Cornell travel form which can be found at the conference website.

Applications received by March 1, 2009, will receive full consideration. Applications will be reviewed by a committee chaired by the principal investigator of the grant, Laurent Saloff-Coste. Applicants will be notified of awards on or before March 14, 2009.

w http://www.math.tu-berlin.de/SPA2009/pages/spa-2009-home/travel-support.php

More IMS meetings around the world

IMS sponsored meeting

Second IMS China Conference on Statistics and Probability
July 3–6, 2009
Weihai, China

UPDATED

w http://www.stat.cmu.edu/~jiashun/imschina/index.html

We are pleased to announce the 2nd IMS China International Conference on Statistics and Probability 2009 in Weihai, northeast China. The first meeting in this series was held in Hangzhou, China this past June.

The meeting is open to all current and prospective IMS members by registration, until the maximum of 110 non-local participants is reached. Local participants are defined as those who reside in mainland China. It will feature plenary lectures, and invited and contributed talks in all areas of probability and statistics. The official languages of the meeting are English and Chinese.

The Plenary Speakers will be:

Peter Bickel, University of California, Berkeley
Stephen Fienberg, Carnegie Mellon University
Zhiming Ma, Chinese Academy of Math and Systems Science
Michael Steele, University of Pennsylvania

If you live in China, contact Professor Shige Peng (peng@sdu.edu.cn) and Jiaan Yan (jayan@amt.ac.cn) for more information. If you live in other countries, send your enquiries, in English, to Professor Jiashun Jin (jiashun@stat.cmu.edu).

Photo: Fenghong/Wikimedia Commons

Happiness Gate in Weihai

Organizing Committee Co-Chairs: Shige Peng, Shandong University, and Jiashun Jin, Carnegie Mellon University.

Scientific Committee Co-Chairs: Jiaan Yan, Chinese Academy of Science, and Tony Cai, University of Pennsylvania

IMS co-sponsored meeting

2009 ICSA Applied Statistical Symposium
June 21–24, 2009
San Francisco, CA

w http://icsa2.org/2009/

IMS Rep to Program Committee: Jiming Jiang

Keynote speakers are Wing Hung Wong, Stanford University, and Nicholas Jewell, University of California, Berkeley. The banquet speaker is Ronald Wasserstein, Executive Director of the American Statistical Association

IMS co-sponsored meeting

Statistical Methods for the Analysis of Network Data in Practice
June 2009
(tentatively 3 days between June 15 and 19)
University College, Dublin, Ireland

w tba

IMS co-sponsored meeting

Symposium on New Directions in Asymptotic Statistics
May 15–16, 2009
Athens, Georgia, USA

w http://aaron.stat.uga.edu/news_events/symposium09/

The objective of the symposium is to bring together both well-established and emerging young researchers from around the world who are actively pursuing research in asymptotic methods in likelihood inference, time series, inference for stochastic processes, estimating functions, robust inference, parametric, semi-parametric and nonparametric methods, and functional estimation. The conference aims to provide a forum for leading experts and young researchers to discuss recent progress in asymptotic theory, thereby providing new directions for asymptotic inference in various fields.

The organizers of the conference are Ishwar Basawa **e** ishwar@stat.uga.edu and T.N.Sriram **e** tn@stat.uga.edu

Other Meetings Around the World:
Announcements and Calls for Papers

International Workshop on Probability Theory, Statistics, and their Application to Biology NEW
June 26–28, 2009
Peking University, Beijing, China
w http://bioinfo.math.pku.edu.cn/Workshop09/index.htm

Probability and statistics have been widely used in almost all scientific fields, including biology and public health. This workshop will concentrate on recent developments in probability theory, statistics, and their applications to biology. The applications to biology will include next-generation sequencing, gene expression, molecular regulatory and interaction networks, pathways, statistical genetics, metagenomics, to system biology and clinical trials.

The workshop will feature three internationally-known keynote speakers: Michael Waterman (University of Southern California), Terry Speed (University of California at Berkeley), Minping Qian (Peking University), and other invited speakers from the US, UK and China. A book related to this workshop will be published by Springer, titled *Frontiers in Computational and System Biology*. All speakers are invited to contribute a chapter to the book.

The workshop is arranged just after the Eleventh International Conference on Molecular Systems Biology in Shanghai and the IMS Asia Pacific Rim Meeting in Seoul, Korea, in case participants want to combine the trips. Moreover, there is another summer school Function and Dynamics of Biomolecules hold in Kavli Institute for Theoretical Physics, CAS, Beijing from July 1 to August 15, 2009

First International Conference on the Interface between Statistics and Engineering NEW
July 13–15, 2009
Beijing University of Technology, Beijing, China
w http://icise.bjut.edu.cn/index.htm

Our current data-rich environment provides unprecedented opportunities and research challenges for both statistics and industrial engineering communities. The development of a novel interface between statistical analysis methodology and industrial engineering technology and solutions is timely, important, and will have a lasting impact on improving complex system operations both in manufacturing and in service industries.

In order to promote strong collaborations and multidisciplinary research in these two research communities, this conference will bring together worldwide leaders, researchers, developers and practitioners to exchange the research achievements and shape the future of this new emerging research area. The conference will be featured with various high profile events that will combine keynote lectures, panel discussion sessions, paper presentations with an active social program in an historic city of Beijing in China. Please consider attending 2009ICISE,and meeting friends from all of the world.

For information, contact 2009icise@bjut.edu.cn or phone (+86) 010-63792179.

LASR 2009: Statistical Tools for Challenges in Bioinformatics NEW
July 7–9, 2009
Leeds, UK
w http://www.maths.leeds.ac.uk/lasr2009
Contact Arief Gusnanto **e** workshop@maths.leeds.ac.uk

The 2009 Leeds Annual Statistical Research Workshop will focus on developments in interdisciplinary statistics and, in particular, the interface between statistical methodology and bioinformatics.

Graybill VIII: Sixth International Conference on Extreme Value Analysis UPDATED
June 23–26, 2009
Colorado State University, Fort Collins, Colorado
w http://www.stat.colostate.edu/graybillconference/
e EVA2009@stat.colostate.edu

The aim of the conference is to bring together a wide range of researchers, practitioners, and graduate students whose work is related to the analysis of extreme values. The emphasis will be on probabilistic modeling, statistical analyses, and applications in Climate and Atmospheric Science, Geosciences, Hydrology, Finance, Economics and Insurance, Biosciences, Physics and Telecommunications and Stochastic Networks.

Topics of interest include: Classical extreme value theory, Functional extremes, Measures of dependence for extremes, Rare evens, Large deviations, Spatio-temporal extremes, Methods of risk analysis, Multivariate extremes.

Stochastic Analysis and Its Applications: the 2009 Barrett Lectures at The University of Tennessee NEW
April 17–18, 2009
Knoxville, Tennessee

w http://www.math.utk.edu/barrett/

Main Speakers: Richard Bass, University of Connecticut, and Ofer Zeitouni, University of Minnesota and Weizmann Institute
The Invited Speakers are Amarjit Budhiraja, University of North Carolina; Dan Crisan, Imperial College; Christian Houdré, Georgia Tech; Davar Khoshnevisan, University of Utah; and Wembo Li, University of Delaware.

The scientific program of the meeting will cover a selection of possible applications of stochastic analysis. Professor Richard Bass proposes to lecture on potential theory and integro-differential equations while Professor Ofer Zeitouni intends to speak on problems in the study of random walks in random media. The one-hour invited speakers have not yet specified their talks but are expected to speak on filtering, partial differential equations driven by Lévy processes, random polynomials, and other topics related to stochastic analysis and its applications.

The 2009 Barrett Lectures is sponsored by the National Science Foundation, the Department of Mathematics and the University of Tennessee. Funding for the partial support of participants is available. On-line registration will be available starting in February. You can also register by sending an email to jxiong@math.utk.edu. The priority in funding will be given to graduate students and young researchers but other participants are welcome to apply. There will be eight contributed talks (15 minutes each). Please submit abstracts to jxiong@math.utk.edu by March 15, 2009.

Organizers: X. Chen, B. Rajput, J. Rosinski, J. Xiong

Limit Theorems for Dependent Random Variables
August 3–6, 2009
Prague, Czech Republic NEW

w http://simu0292.utia.cas.cz/workshop09/

This workshop on limit theorems for dependent random variables, in Prague, August 3–6, is a satellite meeting to the Berlin 2009 SPA (Stochastic Processes and their Applications) Conference, July 27–31. There are several direct trains a day from Berlin to Prague.

The Prague Workshop will take place at the Institute of Information Theory and Automation (UTIA), Academy of Sciences of the Czech Republic, Pod Vodárenskou věží 4, CZ–182 08, Praha 8, Czech Republic. There is no registration fee, or support for travel/accommodation. Organizers: Dalibor Volný and Lucie Fajfrová

Scientific committee: Jean-Pierre Conze (Rennes); Herold Dehling (Bochum); Martin Janžura (Praha); Michael Lin (Beer Sheva); Dalibor Volný (Rouen); Michael Woodroofe (Ann Arbor).

Prague Castle

EMS 2009
July 20–24, 2009
Toulouse, France NEW

w http://www.math.univ-toulouse.fr/EMS2009/

2nd announcement and call for papers

EMS 2009, the European Meeting of Statisticians, will be the major European international meeting of 2009 covering mathematical statistics, statistical applications and applied probability. It will be held 20–24 July in Toulouse, France, at the Université Paul Sabatier.

The meeting will be held under the auspices of the Bernoulli Society for Mathematical Statistics and Probability, the IMS and ISI. The programme will feature an Opening Lecture delivered by Emmanuel Candes (Caltech), the Forum Lectures presented by Aad van der Vaart (Vrije Universiteit) and the Closing Lecture given by Jeff Steif (Chalmers University of Technology).

The Special Invited Lecturers will be Nina Gantert (University of Münster), Tillmann Gneiting (University of Washington), Iain Johnstone (Stanford University), Gábor Lugosi (Universitat Pompeu Fabra), Andrew Majda (New York University), Péter Major (Hungarian Academy of Sciences), Geert Molenberghs (Hasselt University) and Thomas Nichols (GlaxoSmithKline).

Design and Analysis of Experiments Conference: DAE 2009
October 14–17, 2009
Columbia, Missouri

w http://dae.stat.missouri.edu

The purpose of the DAE conference series is to provide support and encouragement to junior researchers in the field of design and analysis of experiments and to stimulate interest in topics of practical relevance to science and industry.

For details, visit http://dae.stat.missouri.edu or contact Min Yang at yangmi@missouri.edu.

Conference on Nonparametric Statistics and Statistical Learning
May 19–22, 2010
The Ohio State University, Columbus, Ohio

w http://www.stat.osu.edu/~nssl2010/

A Conference on Nonparametric Statistics and Statistical Learning will be held at Ohio State University from May 19 through May 22 in 2010.

Nonparametric statistical methods avoid restrictive assumptions about the underlying population or model structure. These include, but are not limited to, the areas of distribution free statistics, rank-based and robust statistics including data depth measures, Bayesian nonparametric methods, permutation-based methods, nonparametric regression and density estimation.

Statistical Learning is a much newer discipline, evolving from machine learning methods of artificial intelligence and multivariate statistics. The general goals of Statistical Learning are discovery, classification and prediction, often in a very high, effectively infinite, dimensional context. The advent of powerful computers with accompanying massive data sets has brought both disciplines to the forefront of statistical theory and practice.

The conference objective is to bring together researchers in Nonparametrics and Statistical Learning from academia, industry, and government in a relaxed and stimulating atmosphere focused on the development of both statistical theory and methods. The major goal of the conference is to focus on principles and methods that apply to both disciplines.

International Conference on Probability Distributions and Related Topics in conjunction with NZSA Conference
June 29 – July 1, 2010
Palmerston North, New Zealand

w http://nzsa_cdl_2010.massey.ac.nz/

Massey University, New Zealand, is hosting an international conference in statistical distributions and their applications, in conjunction with NZSA (New Zealand Statistical Association) annual conference. The international conference is devoted to all aspects of distribution theory and their applications, including discrete distributions, univariate and multivariate continuous distributions, copulas, extreme values, skewed distributions, conditionally specified distributions and life distributions in reliability engineering and survival analysis. Other related topics are also welcome

Palmerston North has a population of 80,000 located at the southern end of the North Island. It is a central location in New Zealand: two hours drive from Wellington (the capital), 3 hours from Taupo (tourist spot) and 4 hours from Rotorua (another tourist spot). There are regular domestic flights between Palmerston North and other major cities within New Zealand; a one-hour flight to Auckland and Christchurch.

Registration fees: to be announced.

Accommodation information: to be announced

For tourist information: visit http://www.tourism.net.nz/visitor-information/

Conference Organizing Committee:

N. Balakrishnan bala@univmail.cis.mcmaster.ca

Alasdair Noble a.d.noble@massey.ac.nz

Ganes Ganeslingam s.ganeslingam@massey.ac.nz

Chin-Diew Lai c.lai@massey.ac.nz

LinStat2010
July 27–31, 2010
Tomar, Portugal

w www.linstat2010.ipt.pt

The LinStat2010 will be held in Tomar, Portugal.

Information from Professor Francisco Carvalho:

t +351 249 328 100; **f** +351 249 328 186; **e** fpcarvalho@ipt.pt

Employment Opportunities around the world

Our online job boards allow employers and job seekers to have the **most up-to-date information** at their fingertips. The service is free to job seekers. To search job openings online, log on to **http://jobs.imstat.org** and click on **"View Jobs"**

If you have a job to advertise, go to the same webpage and click on **"Post a Job"**. A single 30-day online job posting costs just **$175.00**, and we also include the basic information about your job ad here in the IMS Bulletin at no extra charge. The advertising service is open to all employers in the area of statistics and probability, both academic and non-academic.

New Zealand: Dunedin

Dunedin, New Zealand

Lecturer/Senior Lecturer in Applied Mathematics (Confirmation Path)

Department of Mathematics and Statistics

Applications are invited for a full-time, confirmation path position as Lecturer or Senior Lecturer in the Department of Mathematics and Statistics at the University of Otago specialising in Applied Mathematics. The successful applicant will be expected to teach at the undergraduate and postgraduate levels, to develop an active research programme and supervise postgraduate research students.

Candidates should have a PhD in Mathematics or a related area, a commitment to ongoing research in Applied Mathematics, and experience in teaching. We particularly welcome applicants whose research interests complement those of the Applied Mathematics staff at Otago or which will help develop new links with other departments on campus. Research interests of staff at Otago include mathematical and numerical relativity, algebra, anomalous diffusion, applied continuum mechanics, approximation of PDEs, complex analysis, computational modelling, fractional calculus, graph theory, mathematics education, numerical methods, operator semigroups, polar marine physics, modelling plus environmental, ecological statistics and time series. Further information on staff research interests and links can be found at http://www.maths.otago.ac.nz.

Dunedin is a vibrant college town set on an attractive natural harbour ringed by hills. The Otago region is one of the world's great eco-tourism locations, with fabulous hiking and wildlife viewing opportunities nearby. Additionally, scenic mountains, wine country, and skiing are all within a four-hour drive. There are also regular flights to major Australian cities including Melbourne, Sydney and Brisbane which are all around three-hours flying time away.

The Department currently has three professors, three associate professors, 12 lecturers and senior lecturers, and two part-time teaching fellows. It offers majors at the undergraduate level in the three-year BA and BSc degrees as well as four-year BSc(Hons), BA(Hons) and BAppSc degrees. Postgraduate diplomas, Masters degrees and PhD degrees are also offered by the Department. There are currently three postdoctoral fellows, nine PhD students and three MSc students in Mathematics and six PhD students in Statistics in the Department. The Department operates a consulting unit, The Centre for Applications of Statistics and Mathematics.

The Department is committed to diversity in staffing and we encourage applications from women and other groups who are under represented in the Mathematical and Statistical Sciences. Parental leave without pay of up to 54 weeks and paid parental leave of six weeks' salary may be granted to employees with at least one year's service. The University operates childcare centres covering the period from birth to eight years.

Specific enquiries may be directed to Professor Richard Barker, Head of Deparrment, Department of Mathematics and Statistics, Tel 64 3 479 7756, Fax 64 3 479 8427, Email rbarker@maths.otago.ac.nz. Further details about the Department, its staff, courses, and research interests can be obtained from http://www.maths.otago.ac.nz.

Applications quoting reference number A08/185 close on Friday 27 February 2009.

APPLICATION INFORMATION

With each application you must include an application form, an EEO Information Statement, a covering letter, contact details for three referees and one copy of your full curriculum vitae. **For an application form, EEO Information Statement and a full job description go to: www.otago.ac.nz/jobs Alternatively,** contact the **Human Resources Division, Tel 64 3 479 8269, Fax 64 3 479 8279, Email** job.applications@otago.ac.nz

EEO Employers Group

Equal opportunity in employment is University policy.

UNIVERSITY of OTAGO
Te Whare Wānanga o Otāgo
NEW ZEALAND

www.otago.ac.nz/jobs

USA: Pittsburgh, PA

Carnegie Mellon University

Applications are invited for possible tenure-track, lecturer, and visiting positions. Carnegie Mellon offers a collegial faculty environment, emphasizing a combination of disciplinary and cross-disciplinary research and teaching. All areas of statistics are welcome, and joint appointments with other units in the Pittsburgh area are possible. We especially encourage women and minorities to apply. Details at http://www.stat.cmu.edu (email: hiring@stat.cmu.edu). Application screening begins immediately and continues until positions closed. Send CV, research papers, relevant transcripts and three letters of recommendation to: *Chair, Faculty Search Committee, Department of Statistics, Carnegie Mellon University, Pittsburgh, PA 15213, USA*. AA/EOE.

Qatar

Weill Cornell Medical College in Qatar

MATHEMATICS

Faculty Position

In a pioneering international initiative, the Weill Cornell Medical College (WCMC) established the Weill Cornell Medical College in Qatar (WCMC-Q) with the sponsorship of the Qatar Foundation for Education, Science and Community Development. WCMC-Q is located in Doha, Qatar, and in its seventh year of operation, its inaugural class having graduated with Cornell MD degrees in May 2008.

WCMC-Q seeks candidates for a full-time senior level faculty position to teach in Doha in the Pre-medical Program, with major responsibility for teaching mathematics to premedical students. The two-year Pre-medical Program is designed to prepare students for admission to the WCMC-Q Medical Program. Intensive and challenging, this two-year program has been specifically prepared for students in the Middle East. It provides them with instruction in subjects that comprise the pre-medical requirements of most medical colleges in the US.

The successful candidate will teach one course per semester at the level of college calculus and introductory statistics. In addition, he/she will participate in student academic advising, committee work, and the academic life of WCMC-Q. Research funding support is available and active participation in relevant research will be encouraged.

Qualifications include a Ph.D. in Mathematics, demonstrable teaching skills, and teaching experience at the college/university level. Candidates are expected to have experience in the American higher education system and must be willing to relocate to Doha, Qatar for the duration of the appointment. Academic rank and salary are commensurate with training and experience and are accompanied by an attractive foreign-service benefits package. Qualified applicants should submit a curriculum vitae and a letter of interest outlining their teaching and research experience to:

http://job.qatar-med.cornell.edu *

***Please select the appropriate position under the Academic options and indicate job # 08-wcmcq-MT**

Cornell University is an equal opportunity, affirmative action educator and employer.
Details regarding the WCMC-Q program and
facilities can be accessed at: **www.qatar-med.cornell.edu**

The screening of applications will begin immediately and continue until suitable candidates are identified. Please note that due to the high volume of applications, only short-listed candidates will be contacted. Service is expected to begin in August 2009.

Short-listed candidates will be asked to provide names of three references.

Employment Opportunities around the world

Hong Kong

The Hong Kong University of Science and Technology
Department of Information Systems, Business Statistics and Operations Management
Tenure-track Assistant Professor

HKUST BUSINESS SCHOOL

Applications are invited for a tenure-track Assistant Professor position in Statistics starting July 1, 2009. Appointment at a senior level could be made for applicants with exceptionally strong credentials. Demonstrated or potential excellence in research and teaching, and a doctoral degree by the time of appointment are required.

The group in statistics, which is housed in the School of Business and Management, is also heavily involved in a new undergraduate degree program in Risk Management and Business Intelligence. Applicants with prior business school experience or interests in business related statistical research (e.g. data mining, financial time series, risk management, etc), are especially welcome.

Salary will be highly competitive. Fringe benefits include, medical insurance, housing benefits and family educational allowances, subject to eligibility. Applications will be accepted until positions are filled. Those received by December 1, 2008 will receive full consideration.

Please submit a CV, the names and addresses of 3 referees to:
Recruitment Committee of Statistics Group, Department of Information Systems, Business Statistics and Operations Management
The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, HONG KONG
Email: isjob@ust.hk; Fax: (852) 2358-2421

Switzerland: Zurich

University of Zurich

The Faculty of Science (Mathematisch-naturwissenschaftliche Fakultät) of the University of Zurich invites applications for the position of a

Professor in Mathematics

in the fields of probability or statistics, to commence on February 1, 2010 or later. The new professor is expected to establish and lead a successful research group, contribute to the master and PhD programs in mathematics and to undergraduate teaching. Applicants are expected to be internationally recognized mathematicians with a strong research record.

The candidates are invited to submit by January 30, 2009 a curriculum vitae, a publication list and a summary of their research interests to Prof. Dr. Daniel Wyler, Dean of the Faculty of Science (MNF), University of Zurich, Winterthurerstrasse 190, CH-8057 Zürich, Switzerland. The application material should also be submitted in a single PDF file to jobs@mnf.uzh.ch.

For further information, contact Prof. Dr. Thomas Kappeler, Institute of Mathematics at thomas.kappeler@math.uzh.ch, or visit the homepage at www.math.uzh.ch.

USA: Boston, MA

Assistant/Associate Professor of Biostatistics
Department of Biostatistics
Harvard School of Public Health

The Department of Biostatistics at the Harvard School of Public Health (HSPH) seeks outstanding candidates for the position of assistant or associate professor of biostatistics. This is a tenure-ladder position, with the academic rank to be determined in accordance with the successful candidate's experience and productivity.

The successful applicant will be expected to conduct research and teaching in the Department of Biostatistics. While the position is not tied to any particular application area or project, candidates with interests in AIDS research are particularly encouraged to apply. Applicants should have a strong doctoral record or degree in statistics, biostatistics, or other appropriate quantitative field, and a strong track record in the pursuit of innovative methodological research motivated by biomedical collaborations.

Please send a letter of application, including a statement of current and future research interests, curriculum vitae, sample publications, and the names of four referees to the following address. Applicants should ask their four referees to write independently to this address. The electronic submission of application documents to the email below is welcome.

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

Harvard University is committed to increasing representation of women and minority members among its faculty and particularly encourages applications from such candidates.

USA: Riverside, CA

University of California, Riverside, Department of Statistics
Assistant Professor in Statistics

Applications and nominations are invited for the tenure-track position of Assistant Professor of Statistics in the Department of Statistics at the University of California, Riverside.

The University of California at Riverside is in the start-up phase of its new Medical School with its first incoming class of students expected in the fall of 2012. The Department of Statistics will be part of an exceptional environment for interdisciplinary research with the new Medical School and other health related initiatives on campus. Candidates with a research profile for developing theory and methods of statistics that are motivated by biomedical collaborations are highly desirable.

The position targets candidates with high quality research and strong teaching records, and general training in statistics or biostatistics with expertise preferably in more than one of the following areas: Statistical Methodology for Clinical Trials, Discrete Data Analysis, Nonparametric or Semi-Parametric Statistics, Large Scale Data Analysis, Image Analysis, Spatial Statistics, Longitudinal Data Analysis, Missing Data, and Survival Analysis. Qualified candidates must have a Ph.D. in Statistics or Biostatistics or a similar statistically oriented discipline. The position is effective July 1, 2009.

Reviews for the position begin January 2, 2009, and will continue until the position is filled. Interested applicants should send a letter describing how their qualifications and interests would fit with the position description along with their curriculum vitae to the search committee chair:

Professor Keh-Shin Lii
Department of Statistics
Room 2626 Statistics-Computer Building
University of California
900 University Avenue
Riverside, CA 92521-0138, USA

Applicants should arrange for three letters of recommendation to be sent to Professor Lii. Until the file is complete with the requested information, the application cannot be given full consideration.

The University of California is an Affirmative Action/Equal Opportunity Employer. Members of underrepresented groups are particularly encouraged to apply. The University has family-friendly policies and is committee to accommodating the needs of dual career couples.

Employment Opportunities around the world

Canada: Toronto, ON
University of Toronto
Lecturer
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4846012

Canada: Toronto, ON
University of Toronto
Assistant Professor
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4845995

Hong Kong: Kowloon
The Hong Kong University of Science and Technology
Tenure-track Assistant Professor
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4991032

New Zealand: Dunedin, Otago
University of Otago
Lecturer/Senior Lecturer in Applied Mathematics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=5007799

Qatar: Doha
Weill Cornell Medical College
Mathematics (Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4999594

Qatar: Doha
Bayard Advertising
Mathematics (Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4999584

Saudi Arabia: Thuwal
Stanford University
Faculty Position (Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4841074

Singapore
National University of Singapore
Faculty Positions (Open Level Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4862760

Switzerland: Zurich
Institute of Mathematics
Professor in Mathematics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4946596

Taiwan: Taipei
Institute of Statistical Science, Academia Sinica
Assistant Research Fellow, Associate Research Fellow or Research Fellow
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4995584

United States: Tempe, AZ
Arizona State University
Assistant or Associate Professor of Statistics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4960186

United States: Tucson, AZ
Department of Mathematics, The University of Arizona
Assistant Professor
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4983437

United States: Tucson, AZ
Pima Community College District
Mathematics Faculty (Open Level Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=5022474

United States: Bakersfield, CA
CSU Bakersfield
Tenure Track Statistics (Assistant Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4923899

United States: Berkeley, CA
University of California, Berkeley
Tenure-track or Tenure Position (Open Level Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=5017784

United States: Berkeley, CA
University of California, Berkeley
VIGRE Postdoc (Postdoctoral Fellowship)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=5017783

United States: Berkeley, CA
University of California, Berkeley
Visiting Neyman Assistant Professor
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=5017782

United States: Los Angeles, CA
University of California Los Angeles
Professor of Statistics (Open Level Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4999927

United States: Washington, DC
American University
Assistant or Associate Professor
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4778181

United States: Chicago, IL
University of Chicago Graduate School of Business
Assistant/Associate Professor of Econometrics and Statistics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4813047

United States: Baltimore, MD
Johns Hopkins Bloomberg School of Public Health
Tenure-Track Faculty (Open Level Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4964129

United States: Detroit, MI
Wayne State University
Department of Mathematics (Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4904794

United States: Durham, NC
Duke Statistical Science
Assistant Professor
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4815176

United States: Durham, NC
Duke Statistical Science
Visiting Faculty (Visiting Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4867873

United States: Princeton, NJ
Princeton University
Tenure-track Assistant Professor
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4868424

United States: Princeton, NJ
Princeton University
Senior Lecturer
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=5010216

United States: Albuquerque, NM
Sandia National Laboratories
Member Technical Staff (Researcher)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=5002598

United States: Ithaca, NY
Cornell University
Postdoctoral Associate (Postdoctoral Fellowship)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4983341

United States: Ithaca, NY
Cornell University
Postdoc or Visiting Assistant Professor (Postdoctoral Fellowship)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4975691

United States: Corvallis, OR
Oregon State University
Assistant Professor
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4956773

United States: Philadelphia, PA
University of Pennsylvania, The Wharton School
Tenure track or tenured position (Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4903571

United States: Pittsburgh, PA
Carnegie Mellon University/Dept. of Statistics
Tenure-track, lecturer, and visiting faculty (Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4715152

United States: Houston, TX
Visual Numerics, Inc.
Mathematician and Statistician (Director)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4947229

United States: Charlottesville, VA
University of Virginia
Assistant Professor
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4975552

United States: Seattle, WA
Fred Hutchinson Cancer Research Center
Assistant or Associate Member (Assistant Professor)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4847742

United States: Seattle, WA
Fred Hutchinson Cancer Research Center
Faculty Position - Biostatistician (Researcher)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=4950388

International Calendar of Statistical Events

IMS meetings are highlighted in maroon with the IMS logo and new or updated entries have the NEW or UPDATED symbol. t means telephone, f fax, e email and w website. Please submit your meeting details and any corrections to Elyse Gustafson at erg@imstat.org

January 2009

January 4–10: CRM, Montréal. **Random Functions, Random Surfaces and Interfaces** **w** http://www.crm.umontreal.ca/Mathphys2008/functions_e.shtml

January 5–8: Washington DC. **AWM Workshop at JMM 2009 for Women Graduate Students and Recent PhDs**

January 5 – February 6: National University of Singapore. **Progress in Stein's Method.** **w** http://www.ims.nus.edu.sg/Programs/stein09/index.htm

January 8–9: Statistical Laboratory, Centre for Mathematical Sciences, Cambridge, UK. **Communicating Complex Statistical Evidence.** **w** www. ccseconf.org

January 8–10: Florida, USA. **11th Annual Winter Workshop on Semiparametric Methodology.** **w** www.stat.ufl.edu/symposium/2009/index.html

January 19–21: CongresHotel De Werelt, Lunteren. **Eighth Winter School on Mathematical Finance.** **w** http://www.science.uva.nl/~spreij/stieltjes/winterschool.html

January 23–25: Lahore, Pakistan. **Fifth International Conference on Statistical Sciences: Mathematics, Statistics and Applications.** **w** www.ciitlahore.edu.pk/E-NewsLetter/Math/conference290708.html

March 2009

March 14: Texas A&M University. **Statistical Methods for Complex Data: Conference in honor of Raymond J. Carroll's 60th birthday.** Xihong Lin, program committee chair **e** xlin@hsph.harvard.edu. Joyce Sutherland, conference coordinator, **t** 979-845-5528 **e** joyce@stat.tamu.edu. **w** www.stat.tamu.edu/carroll/

IMS March 15-18: Grand Hyatt, San Antonio, Texas. **2009 ENAR/IMS Spring Meeting.** **w** www.enar.org/meetings.cfm

March 24–27: Tokyo, Japan. **Sixth International Conference on Multiple Comparison Procedures.** Co-chairs: Chihiro Hirotsu (Meisei University) and Martin Posch (Medical University of Vienna). **w** www.mcp-conference.org

March 25–30: Yad Hashmona, Judean Hills, Israel. **ISF Research Workshop on Random Matrices and Integrability: From Theory to Applications.** **w** http://www.hit.ac.il/staff/kanzieper/yad8

April 2009

NEW April 17–18: Knoxville, Tennessee. **Stochastic Analysis and Its Applications: 2009 Barrett Lectures at The University of Tennessee.** **w** www.math.utk.edu/barrett/

April 25: Storrs, Connecticut. **23rd New England Statistics Symposium.** Also short course and NISS Affiliates Annual Meeting on April 24. **w** www.stat.uconn.edu

May 2009

May 3–8: Ascona, Switzerland. **Statistical Advances in Genome-scale Data Analysis.** **w** http://stat.ethz.ch/talks/Ascona_09

IMS May 15–16: Athens, Georgia, USA. **Symposium on New Directions in Asymptotic Statistics.** Organizers Ishwar Basawa **e** ishwar@stat.uga.edu and T.N. Sriram **e** tn@stat.uga.edu **w** http://aaron.stat.uga.edu/news_events/symposium09/

May 18–23: CRM, Montréal. **Interacting Stochastic Particle Systems** *[CRM program]* **w** http://www.crm.umontreal.ca/Mathphys2008/stochastics_e.shtml

May 25–27: Athens, Greece. **Second International Conference on Quantitative and Qualitative Methodologies in the Economic and Administrative Sciences.** **w** www.teiath.gr/sdo/de/page_nea_EN_r/home.htm

May 25–29: Harrah's Lake Tahoe, NV. **14th International Conference on Gambling and Risk Taking.** **w** www.unr.edu/gaming

May 25–29: Bordeaux, France. **41st Annual Conference of the French Statistical Society.** **w** http://www.sm.u-bordeaux2.fr/JDS2009/index.html

IMS May 27–29: Vancouver, Canada. **2009 Spring Research Conference on Statistics in Industry and Technology.** Boxin Tang **e** boxint@stat.sfu.ca **w** http://www.stat.sfu.ca/~boxint/src2009/

May 31 – June 3: Vancouver, Canada. **2009 SSC Annual Meeting.** Local Arrangements: Nancy Heckman (UBC). Program: Wendy Lou (Toronto) **w** http://www.ssc.ca/main/meetings_e.html

June 2009

June 4–6: Vancouver, Canada. **Workshop on Statistical Methods for Dynamic System Models.** **w** http://stat.sfu.ca/~dac5/workshop09/

June 5–9: University of Pennsylvania, Philadelphia, USA. **O-Bayes09: International Workshop on Objective Bayes Methodology.** Contact Linda Zhao **e** lzhao@wharton.upenn.edu **w** http://stat.wharton.upenn.edu/statweb/Conference/OBayes09/OBayes.html

June 8–13: CRM, Montréal. **Disordered Systems: Spin Glasses** *[CRM program]* **w** http://www.crm.umontreal.ca/Mathphys2008/spin_e.shtml

June 10–12: Siena, Italy. **ITACOSM09: First Italian Conference on Survey Methodology.** **w** http://www.unisi.it/eventi/dmq2009/

June 15–17: Troyes, France. **2nd International Workshop in Sequential Methodologies (IWSM).** **e** Igor.Nikiforov@utt.fr **w** http://www.utt.fr/iwsm2009

IMS June 15–19 (3 days): Dublin, Ireland. **Statistical Methods for the Analysis of Network Data in Practice.** **w** tba

June 18–20: Vienna, Austria. **Econometrics, Time Series Analysis and Systems Theory: Conference in Honor of Manfred Deistler.** **w** www.ihs.ac.at/etsast

June 18–20: Bressanone/Brixen, Italy. **BISP6: Sixth Workshop on Bayesian Inference in Stochastic Processes.** **e** bisp6@mi.imati.cnr.it **w** www.mi.imati.cnr.it/conferences/bisp6.html

IMS June 21–24: San Francisco, CA. **2009 ICSA Applied Statistical Symposium.** IMS Rep: Jiming Jiang. **w** http://icsa2.org/2009/

IMS June 21–25: Collegio Carlo Alberto, Moncalieri, Italy. **Seventh Workshop on Bayesian Nonparametrics.** **w** http://bnpworkshop.carloalberto.org/

June 22–26: Fort Collins, Colorado. **Graybill VIII: 6th International Conference on Extreme Value Analysis.** **e** GraybillConference@stat.colostate.edu or EVA2009@stat.colostate.edu **w** www.stat.colostate.edu/graybillconference2009

June 23–27: Smolenice Castle, Slovakia. **IWMS'09: 18th International Workshop on Matrices and Statistics.** Contact Viktor Witkovsky **e** witkovsky@savba.sk **w** www.um.sav.sk/en/iwms2009.html

NEW June 26–28: Peking University, Beijing, China. **International Workshop on Probability Theory, Statistics, and their Application to Biology.** **w** http://bioinfo.math.pku.edu.cn/Workshop09/index.htm

June 26–29: Universita' Degli Studi Di Milano, Italy. **10th European Conference on Image Analysis and Stereology (ECS10).** **w** http://ecs10.mat.unimi.it/

IMS June 28–July 1: Seoul, Korea. **First IMS Asia Pacific Rim Meeting.** Program chairs: Feifang Hu **e** fh6e@virginia.edu or Runze Li **e** fh6e@virginia.edu **w** http://ims-aprm.org/

July 2009

IMS July 3–6: Weihai, China. **2nd IMS China Conference on Statistics and Probability.** **w** http://www.stat.cmu.edu/~jiashun/imschina/index.html

IMS July 6–17: Cornell University, Ithaca, NY. **Fifth Cornell Probability Summer School.** **w** http://www.math.cornell.edu/~durrett/CPSS2009/

NEW July 7–9: Leeds, UK. **LASR 2009: Statistical Tools for Challenges in Bioinformatics.** Contact Arief Gusnanto **e** workshop@maths.leeds.ac.uk **w** www.maths.leeds.ac.uk/lasr2009

July 12–15: Cornell University, Ithaca, NY. **2009 INFORMS Applied Probability Society Conference.** Shane Henderson and Mark Lewis. **w** http://appliedprob.society.informs.org/apsconf09/APS09.html

July 13–15: Beijing, China. **1st International Conference on the Interface between Statistics and Engineering.** Kwok Tsui **e** ktsui@isye.gatech.edu **w** http://icise.bjut.edu.cn/index.htm

IMS July 20–22: St John's, Canada. **International Symposium in Statistics (ISS) on GLLMM.** Brajendra Sutradhar **e** bsutradh@math.mun.ca **w** www.iss-2009-stjohns.ca

NEW July 20–24: Toulouse, France. **European Meeting of Statisticians (EMS 2009).** **w** www.math.univ-toulouse.fr/EMS2009/

July 20–24: Cornell, Ithaca, NY. **24th International Workshop on Statistical Modeling.** **w** www.stat.cornell.edu/IWSM2009

IMS July 27–31: Berlin, Germany. **33rd Conference on Stochastic Processes and their Applications.** Organising committee chair: Jochen Blath; co-chair: Peter Imkeller. **w** http://www.math.tu-berlin.de/SPA2009/

August 2009

IMS August 1–6: Washington, DC. **IMS Annual Meeting at JSM2009.** IMS Program Chairs: Michael Kosorok kosorok@unc.edu Xiaotong Shen xshen@stat.umn.edu and Ji Zhu jizhu@umich.edu **w** www.amstat.org/meetings/jsm/2009/

Continues on **page 30**

International Calendar *continued*

NEW August 3–6: UTIA, Prague, Czech Republic. **Limit Theorems for Dependent Random Variables** (SPA satellite meeting) **w** http://simu0292.utia.cas.cz/workshop09/

NEW August 16–22: Durban, South Africa. **57th Session of the International Statistical Institute. w** www.statssa.gov.za/isi2009/

September 2009

September 14–16: Politecnico di Milano. **Complex Models and Computational Methods for Estimation and Prediction (S.Co.2009). w** http://mox.polimi.it/sco2009

October 2009

NEW October 14–17: Columbia, Missouri. **Design and Analysis of Experiments Conference: DAE 2009.** Contact Min Yang **e** yangmi@missouri.edu **w** http://dae.stat.missouri.edu

December 2009

December 20–23: The American University in Cairo (AUC), New Cairo, Egypt. **ICCS-X: 10th Biennial Islamic Countries Conference on Statistical Sciences. w** www.isoss.com.pk/iccsx.htm

January 2010

January 4–8: Andhra University, Visakhapatnam, India. **IISA Joint Statistical Meetings and International Conference on Statistics, Probability and Related Areas.** S. Rao Jammalamadaka **e** rao@pstat.ucsb.edu, N. Balakrishnan **e** bala@mcmaster.ca, K. Srinivasa Rao **e** ksraoau@yahoo.co.in **w** www.stat.osu.edu/~hnn/IISA.html

May 2010

NEW May 19–22: Columbus, Ohio. **Conference on Nonparametric Statistics and Statistical Learning. w** www.stat.osu.edu/~nssl2010/

May 23–26: Québec City, Canada. **2010 SSC Annual Meeting.** Local Arrangements: Thierry Duchesne **w** www.ssc.ca/main/meetings_e.html

July 2010

NEW June 29 – July 1: Palmerston North, New Zealand. **International Conference on Probability Distributions and Related Topics in conjunction with NZSA Conference. w** http://nzsa_cdl_2010.massey.ac.nz/

July 11–16: Ljubljana, Slovenia. **ICOTS08: Data and context in statistics education: towards an evidence-based society. w** http://icots8.org/

ims July 18–31: Ithaca, NY. **6th Cornell Probability Summer School. w** tba

NEW July 27–31: Tomar, Portugal. **LinStat2010.** Francisco Carvalho: **t** +351 249 328 100; **f** +351 249 328 186; **e** fpcarvalho@ipt.pt **w** www.linstat2010.ipt.pt

August 2010

ims August 1–5: Vancouver, British Columbia, Canada. **JSM2010.**

ims August 9–13: Gothenburg, Sweden. **IMS Annual Meeting 2010. w** tba

August 19–27: Hyderabad, India. **International Congress of Mathematicians 2010.** Program Committee Chair: Prof. Hendrik W. Lenstra, Leiden University **e** hwlicm@math.leidenuniv.nl

August 30 – September 3: Prague, Czech Republic. **Prague Stochastics 2010. e** pragstoch@utia.cas.cz **w** www.utia.cas.cz/pragstoch2010

July 2011

ims July (dates TBA): Ithaca, NY. **7th Cornell Probability Summer School. w** tba

ims July 31 – August 4: Miami Beach, Florida. **IMS Annual Meeting at JSM2011.**

July 2012

ims July 29 – August 2: San Diego, California. **JSM2012.**

ims July/August [dates TBA]: İstanbul, Turkey. **IMS Annual Meeting 2012 in conjunction with 8th World Congress in Probability and Statistics.**

August 2013

ims August 3–8: Montréal, Canada. **IMS Annual Meeting at JSM2013.**

August 2014

ims August 3–7: Boston, MA. **JSM2014.**

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Journals:
The scientific journals of the Institute of Mathematical Statistics are *The Annals of Statistics*, *The Annals of Probability*, *The Annals of Applied Statistics*, *The Annals of Applied Probability*, and *Statistical Science*. The *IMS Bulletin* is the news organ of the Institute.

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Issue	Deadline for advertisement	Usually online by	Scheduled mail date
1: January/February	***December 1***	December 15	January 1
2: March	***February 1***	February 15	March 1
3: April	***March 1***	March 15	April 1
4: May	***April 1***	April 15	May 1
5: June	***May 1***	May 15	June 1
6: July	***June 1***	June 15	July 1
7: August/September	***July 1***	July 15	August 1
8: October	***September 1***	September 15	October 1
9: November	***October 1***	October 15	November 1
10: December	***November 1***	November 15	December 1

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the next issue is March 2009

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The purpose of the Institute is to foster the development and dissemination of the theory and applications of statistics and probability

IMS: Organized September 12, 1935

Kakuro corner

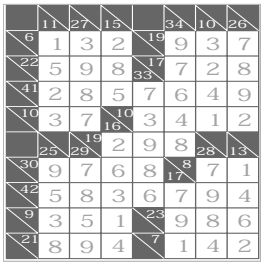
How to play: Place single digits (1 to 9 inclusive) in the white boxes in the grid. The row or column of digits which make up a sequence must add up to the black box to the left or at the top. Each digit in a sequence must be different. In the example below, the first row sequence is to make 8:

No repeated digits in a sequence.

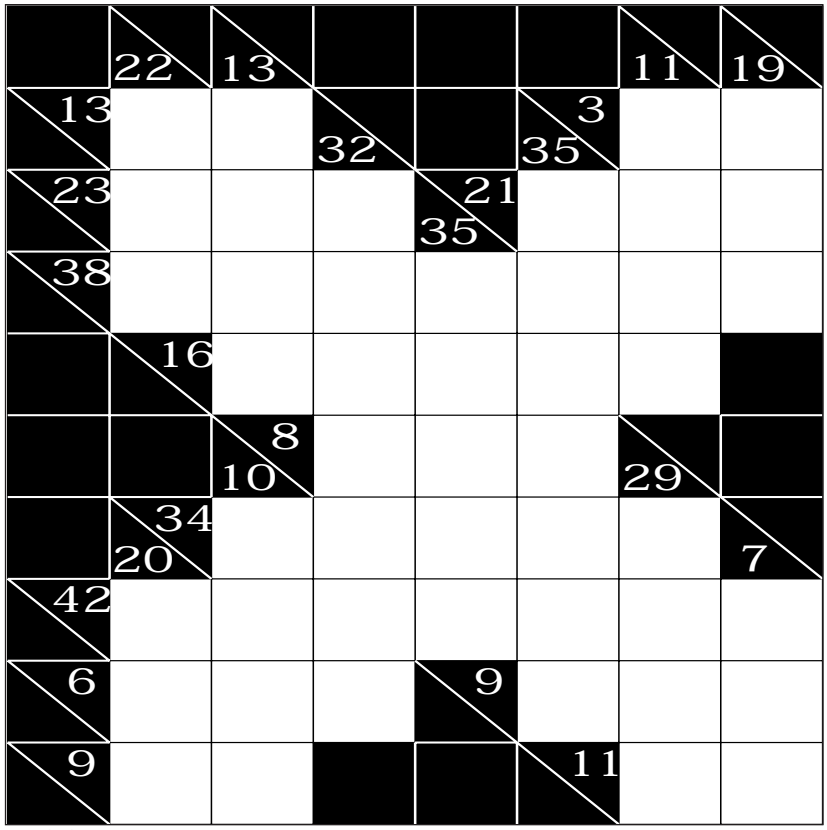
This row sequence doesn't add up to 8.

...this one does! (So does 1,2,5 and 3,1,4 and so on)

Solution 30 from last issue



Puzzle 31



Puzzle by www.yoogi.com