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IMS Bulletin

October/November 2013

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President's Welcome

New IMS President Bin Yu has been wondering how IMS can help your career.

Bin Yu

She writes: I began my IMS presidency at JSM in Montreal in August. Data science, or big data, had been on my mind well before the meeting, during my flight to Montreal, and at the meeting itself. One question that I have been pondering is what statistics as a community—and IMS as an organization—could do to make sure we are a key player in the "new" field of data science or the "chic" field of big data, while these fields are being defined.

At JSM, my scientific activities were all related to data science or big data. Most, if not all, JSM sessions could be called "data science". We might think we have been doing data science since the beginning of our field. However, there are new components of "data science" that have been driven by advances in computing, data storage, and data communication.

Statisticians are data scientists, but so are other people from computer science, electrical engineering, applied mathematics, physics, biology and astronomy. In my view, the key factor for our success in data science is human resource: we need to improve our interpersonal, leadership, and coding skills. There is no doubt that our expertise is needed for all big data projects, but if we do not rise to the big data occasion to take leadership in the big data projects, we will likely become secondary to other data scientists with better leadership and computing skills. We either compute or we concede.

Although this might be a bit technical, let me discuss briefly the importance of taking computer memory into account in our computation. This is important because of the predicted computation bottleneck in communication bandwidth and resulted latency. In a nutshell, memory has a hierarchy for us to respect when we compute: CPUs have very fast access to very small cache memory, fast access to small RAM, and slow access to very large disks. R has become a popular platform even in many parts of industry to directly use or interact with C++ code and there are a few functions in R to monitor usages of memory and time (e.g. gc(), system.time(), rprof()). Parallel computation is an effective way to open up the bottleneck and R also has a few packages such as foreach, doParallel and doMPI to parallelize computation on a multi-core machine or a cluster.

The best learning model is the growth model in which one keeps learning. For this, there are many worthy resources on the internet. For computing skills there are, for instance, the Introduction to Python and other courses at the Codecademy (http://www.codecademy.com), and parallel computing online graduate course by Professor Jim Demmel at UC Berkeley (http://www.cs.berkeley.edu/~demmel/cs267_Spr13/). For frontier related to big data, I highly recommend the NAS massive data report chaired by Professor Mike Jordan at UC Berkeley (Jordan et al. (2013): *NAS report on Frontiers in Massive Data Analysis*, http://www.nap.edu/catalog.php?record_id=18374).

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Contact information

Executive Committee

IMS Members' News

Susan Murphy receives MacArthur Fellowship

Susan Murphy
Photo courtesy of the John D. & Catherine T. MacArthur Foundation

The MacArthur Foundation has named as 2013 MacArthur Fellows 24 exceptionally creative individuals with a track record of achievement and the potential for even more significant contributions in the future. Among them is IMS Fellow Susan Murphy, H. E. Robbins Professor of Statistics at the University of Michigan.

Susan is developing new methodologies to evaluate courses of treatment for individuals coping with chronic or relapsing disorders such as depression or substance abuse. In contrast to the treatment of acute illness, where clinicians make a single decision about treatment, doctors treating chronic ailments make a sequence of decisions over time about the best therapeutic approach based on the current state of a patient, the stage of the disease, and the individual's response to prior treatments.

Susan has developed a formal model of this decision-making process and an innovative design for clinical trials that allow researchers to test the efficacy of adaptive interventions. While the standard clinical trial paradigm simply tests and compares "one shot" treatments in a defined population, Susan's Sequential Multiple Assignment Randomized Trial (SMART) is a means for learning how best to dynamically adapt treatment to each individual's response over time. Using SMART, clinicians assess and modify patients' treatments during the trial, an approach with potential applications in the treatment of a range of chronic diseases—such as ADHD, alcoholism, drug addiction, HIV/AIDS, and cardiovascular disease—that involve therapies that are regularly reconsidered and replaced as the disease progresses.

As Susan continues to refine adaptive interventions, she is working to increase opportunities for implementation in clinical settings through collaborations with medical researchers, clinicians, and computer scientists focused on sequential decision making. By translating statistical theory into powerful tools for evaluating and tailoring complex medical therapies, she is poised to have a significant impact on the field of personalized medicine, an area of great activity in biomedical research today.

Susan Murphy received a B.S. (1980) from Louisiana State University and a PhD (1989) from the University of North Carolina. She was affiliated with Pennsylvania State University (1989–1997) prior to her appointment to the faculty of the University of Michigan, where she is currently the H. E. Robbins Professor of Statistics, a professor in the Department of Psychiatry, and a research professor in the Institute for Social Research. She is also a principal investigator at the Methodology Center of Pennsylvania State University.

MacArthur Fellows receive a no-strings-attached stipend of $625,000 (increased from $500,000) paid out over five years. Without stipulations or reporting requirements, the Fellowship provides maximum freedom for recipients to follow their own creative vision.

Cecilia Conrad, Vice President of the MacArthur Fellows Program, said of this year's class of Fellows, "They are artists, social innovators, scientists, and humanists who are working to improve the human condition and to preserve and sustain our natural and cultural heritage. Their stories should inspire each of us to consider our own potential to contribute our talents for the betterment of humankind."

See a video interview of Susan at http://www.macfound.org/fellows/898/

President's Welcome *continued*

Continued from **cover**

The IMS is looking into ways to position our members better to engage in big data and data science activities. We hope to improve the communication skills of our members by co-sponsoring a writing workshop with ASA (led by Nell Sedransk and Keith Crank) on the Sunday of the JSM2014 in Boston; to discuss data science at the New Researchers Conference (chaired by Edo Airoldi) July 31–August 2, 2014, at Harvard immediately before JSM; and to publish papers in a special issue of the *Annals of Applied Statistics* (Editor in Chief Steve Fienberg) on data science.

The IMS Council has just had a discussion, led by Past-President Hans Künsch, on how to increase the representation of women among the named and Medallion lectures of IMS, triggered by the fact that this year all these lectures were given by men (cf. Terry Speed's column in the June/July 2013 issue: http://bulletin.imstat.org/2013/05/terences-stuff-a-rant/). There is a broader issue within IMS regarding how to increase the representation of women, and other under-represented groups, in probability and statistics. We can all contribute to this worthy course in different, doable ways. We could work on attracting students from these groups into our graduate programs and retaining them by mentoring such students at the undergraduate and graduate levels. When on conference and award committees, we could make separate lists of qualified women and under-represented groups to make sure people from such groups are considered. Departments and individuals could also participate in activities of organizations such as the Math Alliance (http://www.mathalliance.org/): please watch out for a future piece in the *Bulletin* by Kathryn Chaloner, giving more information about this organization. Many of our colleagues have been working on this righteous cause for many years. I know many such people and I hope you do too. We should at least remember to thank them in person, at our work places and conferences.

As the IMS president, I would like to get a broader spectrum of people engaged in IMS activities. As a starter, I have asked the council to recommend people for appointments on IMS committees, and the IMS leadership is looking into other concrete measures to involve the IMS community more.

Last but not least, I'd like to remind you that the *IMS Bulletin* does have an online discussion forum, at http://bulletin.imstat.org (you can leave a comment on any article or post).

Please email me at president@imstat.org with your suggestions and ideas on how IMS can help your career and engage us more in data science and big data.

David Donoho video

As previously reported, IMS Fellow David Donoho was named the 2013 Shaw Prize Laureate in the Mathematical Sciences. David is profiled in a "Pearl Report" video, which also features comments from co-author Iain Johnstone. You can view the video at http://www.youtube.com/watch?v=heWEDx1gbB0

David Donoho, ballroom dancing with his wife Miki, features on the Hong Kong "Pearl Report" video

= access published papers online

IMS Journals and Publications

Annals of Statistics: Peter Hall and Runze Li
http://imstat.org/aos
http://projecteuclid.org/aos

Annals of Applied Statistics: Stephen Fienberg
http://imstat.org/aoas
http://projecteuclid.org/aoas

Annals of Probability: Krzysztof Burdzy
http://imstat.org/aop
http://projecteuclid.org/aop

Annals of Applied Probability: Timo Seppäläinen
http://imstat.org/aap
http://projecteuclid.org/aoap

Statistical Science: Jon Wellner
http://imstat.org/sts
http://projecteuclid.org/ss

IMS Collections
http://imstat.org/publications/imscollections.htm
http://projecteuclid.org/imsc

IMS Monographs and *IMS Textbooks:* David Cox
http://imstat.org/cup/

IMS Co-sponsored Journals and Publications

Electronic Journal of Statistics: George Michailidis
http://imstat.org/ejs
http://projecteuclid.org/ejs

Electronic Journal of Probability: Michel Ledoux
http://ejp.ejpecp.org

Electronic Communications in Probability: Anton Bovier
http://ecp.ejpecp.org

Current Index to Statistics: George Styan
http://www.statindex.org
log into members' area at imstat.org

Journal of Computational and Graphical Statistics: Thomas Lee
http://www.amstat.org/publications/jcgs
log into members' area at imstat.org

Statistics Surveys: Donald Richards
http://imstat.org/ss
http://projecteuclid.org/ssu

Probability Surveys: Laurent Saloff-Coste
http://imstat.org/ps
http://www.i-journals.org/ps/

IMS-Supported Journals

Annales de l'Institut Henri Poincaré (B): Thierry Bodineau & Lorenzo Zambotti http://imstat.org/aihp
http://projecteuclid.org/aihp

Bayesian Analysis: Marina Vannucci UPDATED
http://ba.stat.cmu.edu

Bernoulli: Eric Moulines
http://www.bernoulli-society.org/
http://projecteuclid.org/bj

Brazilian Journal of Probability and Statistics: Nancy Lopes Garcia http://imstat.org/bjps UPDATED
http://projecteuclid.org/bjps

Stochastic Systems: Peter W Glynn
http://www.i-journals.org/ssy/

IMS-Affiliated Journals

ALEA: Latin American Journal of Probability and Statistics: Servet Martinez UPDATED
http://alea.impa.br/english

Probability and Mathematical Statistics: K. Bogdan, M. Musiela, J. Rosiński, W. Szczotka, & W.A. Woyczyński
http://www.math.uni.wroc.pl/~pms

The XL-Files: Ig Nobel and 24/7

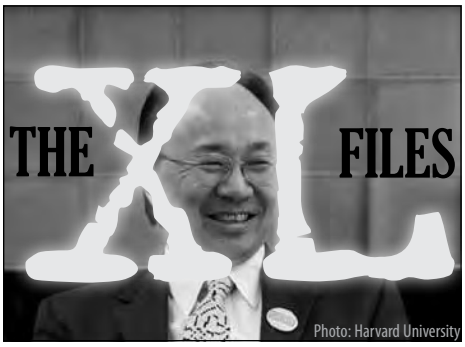


Photo: Harvard University

Contributing Editor Xiao-Li Meng writes:

Life sometimes takes funny turns. Literally. The Ig Nobel Prize ceremony is an annual event organized by the *Annals of Improbable Research* (*AIR*), which is devoted to "research that makes people LAUGH and then THINK" (www.improbable.com). Since I love laughing and thinking, not necessarily in that order, I have wanted for years to attend the event. Ironically I only found time this year, when my schedule is not even under my control. Finding a ticket within two days of the event, however, turned out to be harder. Just as I was about to give up, the editor of *AIR*, who learned that I was looking for a ticket, made me an offer that was just too good to be true. There was a 24/7 lecturer who dropped out at the last minute for health reasons. If I'd be willing to replace him, I'd have a VIP seat, that is, on stage!

The official rule of 24/7 lectures is to have each speaker explain her or his subject twice: "first a complete technical description in 24 seconds, and then a clear summary that anyone can understand, in seven words." However, an informal (and real) definition followed quickly: "to load your 24 second portion with the densest jargon you can think of, so that it's totally incomprehensible to the lay public. Then the seven-word summary should make the audience laugh, and think. A biologist once said, to describe biology, 'If it can get infected, it's biology.'"

To explain Statistics clearly in 24 seconds would be a daunting task, but to make it incomprehensible is trivial. So I accepted the offer right away. Inspired by the biologist, the seven words also came rather easily: "If you are unsure, consult a statistician."

Of course there is no free lunch, or in this case, free ticket. I needed to make the audience laugh before making them think! Unsure if loading incomprehensible statistical jargon could induce laughter from the audience, I followed my own advice and consulted a statistician I had known since birth. His advice was loud and clear—indeed I heard his voice non-stop over the next 24 hours. *Embed jargon into Jack-Handey style deep thoughts. Make it rhyme, if you want it to shine. Go for pun, if you want fun.*

A poem then flowed out rather smoothly. My assistant loved it. Ego boosted, I went further, and made the seven words almightier. (Though I still love the original seven.)

Fun needs to be shared, especially silly fun. A midnight spam about my upcoming adventure then went out (without my 24/7 lecture text) to a semi-random sample of colleagues and friends who I believe would enjoy a few laughs and could provide some moral support. The responses indicated that the 24/7 format aroused quite a bit of interest. The 24/7 text below is from an eminent statistician, who was most wide-ranging. Indeed, if I could ignore my statistician's advice, I would have adopted this: "24 Seconds: *Numbers, Data, Experiments, Analysis, Graphs, Charts, Decisions, Conclusions. Models, Predictions, Outliers, Backbone of Science. Hardest Subject in college, for most. Gave us "Green Revolution in Agriculture," "Proved that Smoking Causes Cancer," Cures Childhood Leukemia," "Zero-Defect Consumer Products," Google Search, Predictive Spelling, Find Oil, Cell Phone Receivers, DNA Gene Finders.* 7 Words: *Numbers Data Experiments Randomness Odds Analysis ... Statistics."*

This and other responses, however, reminded me that there would be expectations of my 24/7 lecture beyond just making the audience laugh and think. I therefore replaced a self-deprecating line [*"Binomial, Multinomial, and Multivariate Normal/who said I am nerdy and abnormal"*] by something a bit more positive. However, I was not prepared to drop all the silliness, given the nature of the event. If you don't have time to laugh for about 90 minutes (http://www.improbable.com/ig/2013/), here is my 24 seconds of (Ig) fame:

Z-test, t-test, chi-squared test,
I can help you to face any test;
Bayes, Frequentist, Fiducial
Let me make you feel influential.
Regression, Correlation, Causation,
What else can generate more passion?
Skewness, Kurtosis, Heteroscedasticity
Boy, do I feel sexy?

Not unexpectedly, not everyone shared my sense of humor. A hate-hate-hate mail came in, from a friend who preferred to remain anonymous but gave me the permission to describe him as "a curmudgeonly blogger who some say is the second funniest person to join the Harvard statistics department in 1986." Clearly he had a strong reaction (one with which my serious side completely agrees!): *Don't get mad, but... I hate hate hate that you wasted three of your 24 words on "Z-test, t-test, chi-squared test" and three more on "Skewness, Kurtosis, Heteroscedasticity." None of these seem essential to statistics, but they strike me as the kind of technical things that people think statistics is about!"*

At least he was silent on my seven words on Statistics: *The only crystal ball approved by God.*

What would yours be?

Medallion Preview: Xihong Lin

Xihong Lin is Professor of Biostatistics and Coordinating Director of the Program of Quantitative Genomics at the Harvard School of Public Health (HSPH). She received her PhD degree from the University of Washington in 1994 under the direction of Professor Norman Breslow. She was on the faculty of the Department of Biostatistics at the University of Michigan from 1994–2005 before she joined the HSPH in 2005. Lin received the 2002 Mortimer Spiegelman Award from the American Public Health Association, and the 2006 COPSS Presidents' Award. She is an elected fellow of IMS, ASA and the International Statistical Institute. Lin was the former Chair of COPSS (2010–12). She is currently a member of the Committee of Applied and Theoretical Statistics of the US National Academy of Science. Lin is a recipient of the MERIT (Method to Extend Research in Time) award from the National Cancer Institute, which provides long-term support for her methodological research. She is the PI of the T32 training grant on interdisciplinary training in statistical genetics and computational biology. She has served on numerous editorial boards of statistical and genetic journals. She was the former Coordinating Editor of *Biometrics*, and currently the co-editor of *Statistics in Biosciences*, and Associate Editor of *Journal of the American Statistical Association* and *American Journal of Human Genetics*. She was a permanent member of the NIH study section of Biostatistical Methods and Study Designs, and has served on several other study sections of NIH and NSF.

Xihong Lin will deliver her IMS Medallion Lecture at the 2014 ENAR/IMS spring meeting, held March 16–19, 2014, in Baltimore, Maryland, USA. The preliminary program for the meeting is available to download from http://enar.org/meetings2014/spring2014_prelimprogram.PDF

Statistical Genetics and Genomics in the Big Data Era: Opportunities and Challenges in Research and Training

The human genome project in conjunction with the rapid advance of high throughput technology has transformed the landscape of health science research. The genetic and genomic era provides an unprecedented promise of understanding genetic underpinnings of complex diseases or traits, studying gene-environment interactions, predicting disease risk, and improving prevention and intervention, and advancing personalized medicine. A large number of genome-wide association studies conducted in the last ten years have identified over 1,000 common genetic variants that are associated with many complex diseases and traits. Massive next generation sequencing data as well as different types of 'omics data have become rapidly available in the last few years. These big genetic and genomic data present statisticians with many exciting opportunities as well as challenges in data analysis and in interpretation of results. They also call for more interdisciplinary knowledge and research, e.g., in statistics, machine learning, data curation, molecular biology, genetic epidemiology and clinical science. In this talk, I will discuss some of these challenges, such as low-level pre-processing, analysis of rare variants in next generation sequencing association studies; integrative genomics, which integrates different types of 'oimcs data; and study of gene-environment and gene-treatment interactions. I will also discuss strategies of training next generation quantitative genomic scientists at the interface of statistical genetics and genomics, computational biology and genetic epidemiology, to meet these challenges.

Call for Nominations for 2015 Noether Lecture (deadline: October 15, 2013)

The Association for Women in Mathematics established the Emmy Noether Lectures in 1980 to honor women who have made fundamental and sustained contributions to the mathematical sciences. In April 2013 the lecture was renamed AWM-AMS Noether Lecture and starting 2015 will be jointly sponsored by AWM and AMS. These one-hour expository lectures are presented at the Joint Mathematics Meetings each January. Emmy Noether was one of the great mathematicians of her time, someone who worked and struggled for what she loved and believed in. Her life and work remain a tremendous inspiration.

Emmy Noether

The letter of nomination should include a one page outline of the nominee's contribution to mathematics, giving four of her most important papers and other relevant information. The selection committee will take into account nominations for a three-year period after they are received; the committee may seek out and consider other excellent candidates. Nominations should be submitted as *one* PDF file at https://www.mathprograms.org/db/programs/219.

Questions? Call 703-934-0163 x215 or email awm@awm-math.org.

Travel Awardees

The IMS provides funds for new researchers to travel to attend IMS meetings. This year the last four Laha Travel Awards were made, and 12 of the new IMS Travel Awards, helping 16 new researchers to travel to the JSM. We asked them to share their experiences.

A few of the group had attended a JSM previously, but Semhar Michael said it was her first IMS meeting, and the JSM was "a great experience and a little overwhelming"—understandable, with over 5,000 attendees. Shanshan Wang said, "This was my first JSM, and I think it is a wonderful conference where people meet and present their research results. I learned some novel and brilliant ideas from the talks and got to know some people."

Yin Xia said she enjoyed "many good talks" in her area, high-dimensions. Semhar said she attended talks both related and unrelated to her field: "The talks related to my field gave me an insight into different approaches to the same problem. The other talks which were not related to my field were useful since I was giving a talk so I could see how people do their presentation and so on." Wei Sun "attended some talks given by people from industry, e.g., Google, IBM. It's great to know how statistics works in the real world."

Seung Jun Shin attended talks in data mining and high-dimensional data analysis: "Some talks provided for me a whole different way of viewing problems that people, including me, tackle in a conventional way and that was awesome." He appreciated the wide range of topics: "I can find anything I want since there a lot of sessions with different topics."

Marcel Carcea picked out a few highlights: "I really enjoyed *Post PhD: What to Expect in Your First Year,* the experiences of six post-PhD students in finding a job. I attended a couple of talks that might help me improve my research topic. I also found useful the more general topic talks, like the introductory lecture on *Twenty Years of Gibbs Sampling/MCMC*. Speakers like Nate Silver and Vijay Nair were inspiring and entertaining. I enjoyed [the IMS Presidential Address] *Ars Conjectandi: 300 Years Later*. It put the field of probability and statistics in perspective, enriching the experience I had at JSM 2013."

Eleven of the IMS Laha and Travel Award winners, at JSM in August with Hans Künsch

Yao Yu said that attending talks inspired her research, and she could also improve her presentation skills "by attending talks of different styles. I can learn how to explain my research work, how to answer questions and how to accept ideas from other researchers."

Marcel found JSM "uplifting. Of course, the meeting is big and requires a lot of shifting from one room to another, which can get tiring after two or three days. But once I got back to Dallas and I started reviewing the whole experience I was surprised with how much I learned and how many people I met."

As for the location, Semhar said Montreal was "beautiful, [...] more like a European city. I loved walking by the old port." Seung Jun had assumed Canada would be quite like the US, "but it didn't take long to realize my mistake," adding that he loved its European feel. Marcel "wholeheartedly enjoyed the pastries" and "the authenticity of Chinese food in Chinatown, Montreal."

Zheng (Tracy) Ke attended many invited and contributed talks, and "got to know what people are doing in my area and what problems they are interested in now." JSM "provides a very good opportunity for people—both mature researchers and young people—to communicate their ideas,"

Seung Jun would "absolutely" recommend that other new researchers apply for an IMS Travel Award. Marcel agreed: "Attending a meeting like JSM (especially as a presenter) can be eye opening, a career-direction setter, and let's not forget, a CV booster. Attending a congress like this is not cheap though. So the IMS Travel Award can help reduce the financial strain a young researcher might feel when attending such meetings." Sunyoung Shin added, "If you are working in statistical theory and probability, I strongly recommend you apply for an IMS Travel Award. [You] can get inspiration for your future work and meet potential coworkers and mentors."

All the awardees who responded said they intend to remain in academia; for some, attending the meeting reaffirmed that commitment. Zhao Ren is in the last year of his PhD and considering an academic career: "Attending IMS Annual Meeting and JSM makes me feel more confident and determined in my choice."

Will we be seeing them at a future IMS meeting? Semhar said emphatically, "Yes, definitely!" Wei Sun, a third-year PhD student, plans to "attend IMS meetings often. I appreciate your organization." Seung Jun "always wants to be a part of IMS."

It's worth applying, then. See how on page 7.

IMS Awards: nominate or apply now

Tweedie New Researcher Award


Richard Tweedie

Richard L. Tweedie played a significant role throughout his professional career in mentoring young colleagues at work and through professional society activities. With funds donated by his friends and family, the IMS created the Tweedie New Researcher Award to finance the winner to present the Tweedie New Researcher Invited Lecture at the IMS New Researchers Conference. Next year's conference will be held in Cambridge, MA, at Harvard University, July 31–August 2, 2014 (immediately before JSM in Boston).

To be eligible for the 2014 award, the new researcher must have received their doctoral degree in 2008–2013, and the nominee should be a member of the IMS at time of nomination.

The nomination deadline is December 1, 2013.

For details and requirements of the nomination process, please visit http://www.imstat.org/awards/tweedie.html

IMS Fellowship

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

(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.

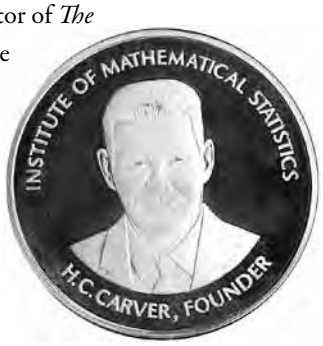
Candidates for Fellowship should be members of IMS on December 1 of the year preceding their nomination, and should have been members of the IMS for at least two years.

All nominations must be received by January 31, 2014.

For details and requirements of the nomination process, please visit http://www.imstat.org/awards/fellows.htm

Harry C. Carver Medal

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.



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

All nominations must be received by February 1, 2014.

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

IMS Travel Award

The purpose of the IMS Travel Award is to fund travel, and possibly other expenses, to present a paper or a poster at an IMS sponsored or co-sponsored meeting, for those who otherwise would not be able to attend the meeting. (Note: the Travel Award cannot be used to fund any part of travel to the IMS New Researcher's Conference, as that conference is already funded separately)

The travel awards are available to IMS members who are New Researchers. This means any IMS member who was awarded a PhD within the 5 years immediately preceding the year of the application deadline or who has or will receive her/his PhD in the same year as the application deadline. For one third of the total available funds, New Researchers from countries with reduced membership dues will have first priority. For the remaining funds, first priority will go to New Researchers who already have their PhD at the application deadline and second priority will go to PhD students. Applicants must be members of IMS, though joining at the time of application is allowed. And don't forget that student membership is free (see http://www.imstat.org/membership/student.htm for details) and New Researchers also qualify for substantially reduced rates. To become a member, please see http://www.imstat.org/orders/

Application deadline is February 1, 2014.

For more information on the application process, please visit http://www.imstat.org/awards/laha.html

Obituary: John Bather

1936–2012


John Bather

John Alfred Bather, Emeritus Professor of Mathematical Statistics at the University of Sussex, died on September 7, 2012 at the age of 76, after suffering from myeloma. He was well known in both Europe and North America for his work on dynamic programming and decision theory.

John was born on January 20, 1936. He attended Burnley Grammar School, then the University of Cambridge, after a period of National Service in the Navy. He first met Statistics, alongside John Kingman, in lectures and supervisions from Dennis Lindley: the course was entitled "Random Variables", to circumvent Sir Harold Jeffreys' insistence that Cambridge courses with "probability" in the title be based on his own book.

After Lindley moved away, the Statistics staff in Cambridge consisted of Maurice Walker, Violet Cane and Peter Whittle, tucked away in the basement of the Chemistry Building. As a smoking research student, Bather shared an office with Hilton Miller; the non-smokers—Kingman, Bob Loynes and Roger Miles—occupied another. When Whittle moved to Manchester University in 1961, Bather went with him. His PhD entitled "The optimal control of stochastic processes" was awarded in 1963; his first published papers were on optimal regulation policies for dams. He spent 1964/5 on leave at Stanford University, working with Hermann Chernoff on sequential decisions when controlling a space ship.

In 1967, Bather moved to Sussex University, for the rest of his career. When Kingman, then Professor at Sussex, moved to Oxford, recommendations from Whittle and George Barnard persuaded the search committee to promote Bather to Professor of Statistics in 1969; he did not retire from teaching until 2003. He was Departmental Chairman, served on major university committees, and chaired the UK-wide Committee of Professors of Statistics for three years. He headed the Royal Statistical Society's Library Committee for several years, and was an Academic Assessor on Appointment Boards for the Statistical class in the Civil Service.

He guided eleven students to a PhD, and the fifty or so academic articles published under his name show joint work with a dozen other researchers. In 1973, he spent four months at the Technion in Haifa. After the European Meeting of Statisticians held at Sussex in 1980, he obtained a Leverhulme Fellowship to work on the sequential design of experiments, seeking the best of several treatments for a particular disease. His read paper [1] assesses the work of the previous thirty years in that area. During that year, he worked with Chernoff again, with Bert Fristedt at Minnesota, and colleagues at Oxford, Cambridge and various European universities.

He hosted visits by Gordie Simons from Chapel Hill in 1982/3, and John Petkau from Vancouver 1986/7; those collaborations continued when Bather visited North America again in 1987/8, working also with Chernoff at Harvard.

He ranged widely over theoretical statistics, with special emphasis on sequential decision problems. He also wrote about control charts, optimal stopping, oil exploration models, the secretary problem, clinical trials, and auditing. His papers are characterized by their thoroughness and completeness; he preferred to work an idea fully through, rather than publish a succession of developing results. He was an obvious choice to honour Chernoff by conducting the 'conversation' published as [2].

From 1996, he collaborated with a Sussex colleague, Derek Atherton, on problems related to the capacity of human pilots to effectively use the capabilities of modern military aircraft. His book [3] is based on his popular and successful lecture course.

While still at Cambridge, he married June Smith: they had grown up together in Burnley. They were married for almost 53 years, but June, who cared for him during the four years of his illness, died suddenly just one week before him. They had three sons: Mark died in a road accident abroad, but John was delighted that both Steven and Nick provided him with grandchildren. He was an accomplished piano player: once, when he played the piano in a lecture theatre while the students were completing their end-of-term questionnaires, he was admonished for "seeking to exercise improper influence"! (His integrity was exemplified when, supplementing his salary by marking public examination scripts in his youth, he alerted his overseer to the fact that he had inadvertently been sent the script of his own cousin.) He served as a Governor of the school his sons attended, and closely followed the fortunes of Burnley at soccer, and Lancashire at cricket.

John Haigh, University of Sussex

[1] (1981) 'Randomised allocation of treatments in sequential experiments' (with discussion), *J. Roy. Statist. Soc. B* **43**, 265–292.
[2] (1996) 'A conversation with Hermann Chernoff', *Statistical Science* **11**, 335–350.
[3] (2000) *Decision Theory: An Introduction to Dynamic Programming and Sequential Decisions*. Wiley.

Anirban's Angle: *Nature and Man: Bimodal, at their best?*

Contributing Editor Anirban DasGupta writes:

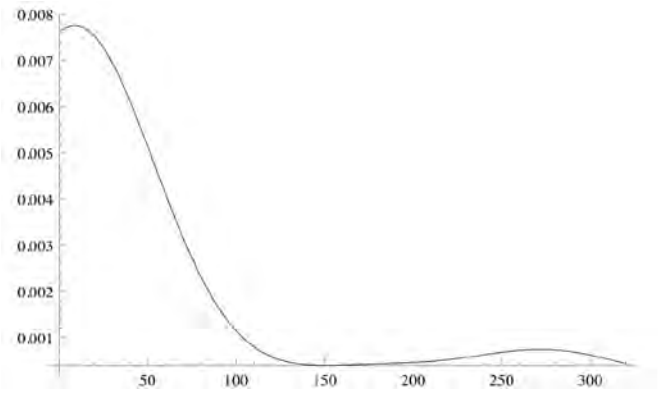
Lazily leafing through the pages of the *2012 World Almanac*, I noticed a curiously common phenomenon. Be it the deserts, lakes, mountain peaks, rivers, or waterfalls in the world, or buildings, bridges, tunnels, books, operas, space expeditions—the most spectacular ones are visibly more impressive than the rest. Act of nature or act of man, there is a hidden non-Gaussian who appears to like a second mode at the far right tail.

These provide interesting and challenging problems statistically. First, we cannot possibly have a complete dataset for any of these constructs; so, one has an unknown number of missing values, and at best, one can study distributions that are left truncated (Woodroofe, 1985, *AOS*; Gross and Lai, 1996, *JASA*). Second, these measurements are often not universally agreed on, or even almost impossible to make very accurately. And, third, to explain bi-modality or heavy tails, one really must look into the science of the variable; for example, if the most awesome mountain peaks are strikingly more regal in their heights, what underlying geology is driving the upper tail?

Today, in this one-page column, let me first state a few little tidbits. For example, I noticed that even leaving aside the Caspian sea, the four biggest continental lakes are on average twice as big as the next biggest one, Lake Tanganyika. Not counting the polar deserts, the biggest desert—the Sahara—is about four times as large as the very next one. The Khone waterfall, the widest on our planet, flowing off the Mekong river, is twice as wide as the very next one, the Pará in Venezuela. The Gamma ray burst with the largest energy, recorded on April 27, has about 3 times more energy than the next record. Coming to human achievements, the three largest buildings in the world are on an average 7 million sq. ft. larger than the very next one; the three longest bridges in the world are on an average 40 miles longer than the fourth-longest bridge. Based on bone fragment estimates, the tallest man ever alive, excavated at a Neolithic French cemetery, was at least 2 feet taller than anyone who ever lived (*La Nature*, v. 18, 1890). And, one can go on.

To the naked eye, these were clusters of outliers, indicative of heavy tails, mixture, or bimodality. Just to feed my curiosity, I tried my hand at a little classic kernel density estimation à la Rosenblatt (1956, *AMS*) and Parzen (1962, *AMS*). I obtained carefully defined left-truncated data on three constructs of nature (height of mountain peaks, areas of deserts, widths of waterfalls), and three constructs of Man (floor space of buildings, total length of bridges, and duration of human expeditions to the International Space Station). I took all the data from Wikipedia. Left truncation is a constraint of the form $X \geq a$; the Wikipedia articles clearly define the cutoff a. For example, when it comes to nonpolar deserts, the cutoff was 50,000 sq. kms.

Density estimation is mired in complexities to do with bandwidth choice and other details (e.g., Scott, 1992, Wiley; Hall et al., 1991, *Biometrika*). Not to be too finicky, I decided to use a Gaussian kernel and the Silverman reference bandwidth $h = 1.06\, s\, n^{-1/5}$ (1986, C&H). Sensitivity analysis would be interesting, but I have no room for it here. When I obtained the kernel density plots, I did notice a clear second mode at the very extreme tail. Sometimes it was a loud second mode, and sometimes an audible whisper. But it was always there. Was this a spurious bump? I couldn't tell for sure. But I did generate a truly Gaussian sample of comparable n to my cases here, and then applied Silverman's rule on the truncated Gaussian data. The second mode did not show up. One of the densities is produced here:



Silverman Estimate of Left-Truncated World Deserts by Area (sq km)

If a second mode at the extreme upper tail is not a phantom mode, one would crave an explanation. A broad brush explanation might be that achievement scores would always tend to produce a small proportion of dazzling outliers; no surprises there. This might be true, but it isn't an intellectually satisfying explanation. We must ask, *why?* For instance, the tallest mountain peaks are all located in the Himalayan range, with a few in the Karakoram. Is it the case that the geologic process giving rise to the Himalayas 250 million years ago contributed to the extraordinarily high and majestic peaks? Do global economy and political choices have something to do with a bundle of astonishingly large structures and buildings confined to a few middle eastern countries and China?

Only when I understand the cause of that second mode can I be happy that I have really understood an applied statistics question I looked at nonchalantly so far.

Recent papers

Annals of Statistics Volume 41, issue 3: June 2013

The *Annals of Statistics* aims to publish research papers of the highest quality reflecting the many facets of contemporary statistics. Primary emphasis is placed on importance and originality. The Co-editors (2013–15) are Peter Hall and Runze Li.

Access papers at http://projecteuclid.org/aos

Recent papers

Annals of Applied Statistics Vol 7, issue 2: June 2013

Statistical research spans an enormous range from direct subject-matter collaborations to pure mathematical theory. The *Annals of Applied Statistics* is aimed at papers in the applied half of this range. Published quarterly in both print and electronic form, our goal is to provide a timely and unified forum for all areas of applied statistics.

Access papers at http://projecteuclid.org/aoas

Corrections

Terence's Stuff: Travel

If travel broadens the mind, Terry Speed must be one of the most broad-minded people you'll meet, quite possibly at the next conference you go to.

I travel a lot. Too much, says my wife. Far too much. Of course I'm speaking of work-related, not recreational travel. Conferences, workshops, seminars, meetings. Usually I present something, but not always. Sometimes I just listen, at other times I take part in discussions.

Why do I do it? For a start, I regard saying yes to invitations as something that goes with my job. As a young mathematician and statistician, I benefited enormously from direct personal interaction with senior people in maths and stats who made the long journey to Australia from the UK, USA or Europe. These included I.J. Good, M.H. Stone, S. MacLane, A.G. Kurosh and B.V. Gnedenko. Discussions with some of these people quite literally changed my career. With this history, how can I refuse – how can I be "too busy" to accept an invitation to visit and speak somewhere, because it is too far away? Similarly, I think an appropriate level of participation in conferences is something we should see as part of our job. If our colleagues, or our professional society, go to the trouble of organizing a meeting in our (sub-) field, isn't it reasonable to expect that we should be interested in participating? I hope so. We'll learn something, while well-attended meetings are usually better than poorly attended ones. Everyone benefits.

A second reason for travel is to tell people what we—my students, postdocs and collaborators and myself—are up to. I am enough of a (statistical) evangelist to want to spread our word, that is, to tell people about the things we think are important at any given time. Naturally I learn a lot from others when doing so, from their questions and discussions. At times I gain students, postdocs or collaborators on my visits.

The third reason for travelling is to find out what others are up to. I find that the most efficient and enjoyable way to learn what people are doing is to listen to them live and to talk to them face-to-face, not to run through their slides or watch them on YouTube or read their papers when they appear.

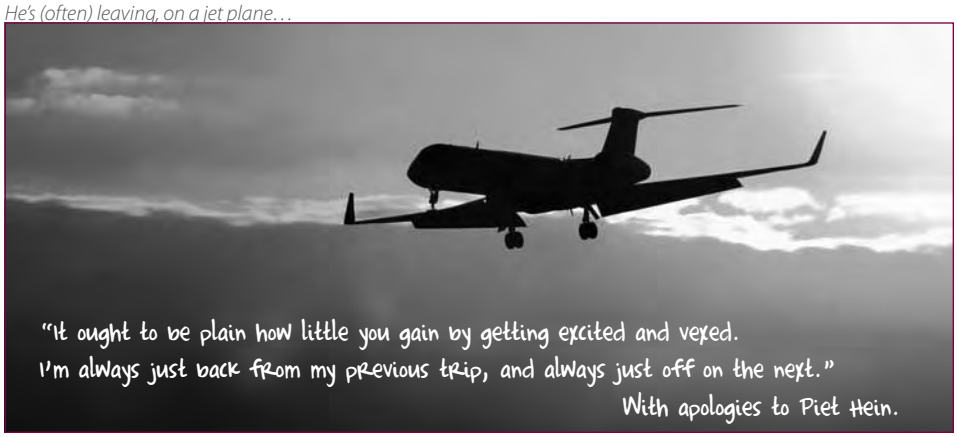
Do these reasons for academic travel seem compelling? I hope so. Who am I trying to convince? You guessed!

Of course the actual travel can be anything from a slightly bad dream to a total nightmare. I look forward to the day when teleportation becomes a reality, when we can be "beamed up" to wherever we want to go. Until then, I try to organize things so that my actual travel is as painless as possible. I never check my luggage, always carrying it with me on the plane. This restricts the amount I can take, but removes the headache of delayed or lost luggage. I try to sleep on long flights. I take (physical) books to read during the inevitable dead time, and I try to do everything just as required to avoid clashing with the authorities. I carry no metal or fluids, I remove my belt and shoes and empty my pockets when required, I do my best to fill in all forms correctly, and I declare everything.

This usually works, and so my journeys are usually as uneventful as they are boring. But not always. Chance can intervene, and a small misstep can have real consequences. On my last trip, I had no checked luggage (see above). But after showing my passport and boarding pass at the gate, I found myself entering a small plane for the short trip from the US to Mexico. My bag was too big for the shelf in that plane, and so it had to be tagged and gate-checked. I put on the tag, but needed to put down my passport—which was still in my hand—to rip off the part I had to retain. Two hours later, as we were about to land in Mexico, and I was filling in the entry form for Mexico, I discovered that I didn't have my passport. It was nowhere to be found, and so I had to present my passportless self to the Mexican immigration authorities. Unsurprisingly, they would not admit me, so back on the plane I went, to return to the US. Fortunately they *did* admit me, and so I was able to locate my passport, which had turned up not far from where I'd put it down, re-book my flight to Mexico, and go to a hotel for a little sleep before resuming my travel next day.

I'm not sure what the moral of this story is. Perhaps just that "stuff happens" when travelling, that it's hard to be perfect. You can be sure that I got some *really* nice gifts for my wife on this particular trip.

He's (often) leaving, on a jet plane…



IMS meetings around the world

IMS co-sponsored meeting

Frontiers of Hierarchical Modeling in Observational Studies, Complex Surveys and Big Data Conference Honoring Professor Malay Ghosh

May 29–31, 2014

University of Maryland, College Park, USA

w http://www.jpsm.umd.edu/ghosh

IMS Representative on Program Committees: Gauri S. Datta

Invited speakers: William R. Bell, Jim Berger, Nikolay Bliznyuk, Sudip Bose, Brad Carlin, Sanjay Chaudhuri, Ming-Hui Chen, Cynthia Clark, Bertrand Clarke, Mike Daniels, Anirban DasGupta, Dipak Dey, Hani Doss, Robert E. Fay, Ralph Folsom, D.A.S. Fraser, Edward George, Jayanta Ghosh, Peter Hall, Jim Hobert, Myron Katzoff, Kshitij Khare, Rod Little, Thomas Louis, Bani Mallick, Glen Meeden, Isabel Molina, Domingo Morales, Carl Morris, Rahul Mukherjee, Nitis Mukhopadhyay, Ralf Munnich, Danny Pfeffermann, J.N.K. Rao, Nancy Reid, Christian P. Robert, Judith Rousseau, Sanat Sarkar, Nathaniel Schenker, Joseph Sedransk, Pranab Sen, Thomas Severini, Bimal Sinha, Bikas Sinha, Cidambi Srinivasan, Muni S. Srivastava, Dongchu Sun, Changboo Wu, Zhihua Xu, James Zidek

IMS co-sponsored meeting

XIII CLAPEM: NEW

Congreso Latino-americano de Probabilidad y Estadística Matemática

September 22–26, 2014

Cartagena de Indias, Colombia

w http://www.clapem.unal.edu.co/

IMS Rep: David Aldous, Berkeley.

IMS sponsored meeting

JSM 2014

August 2–7, 2014: Boston, USA

w http://amstat.org/meetings/jsm/2014/

JSM Program Chair: Jean Opsomer, Colorado State University. IMS Invited Program chair: Nancy Reid, University of Toronto. IMS Contributed Program chair: Bertrand Clark, University of Nebraska–Lincoln.

Invited session abstract submission opens October 21 (see key dates below).

Key dates:

October 21–November 19, 2013: Online submission of Invited Session abstracts

January 17, 2014: Computer Technology Workshop (CTW) proposals due for consideration for the 2014 program

December 3, 2013–February 3, 2014: Online submission of abstracts, invited posters, introductory overview lectures, topic and regular contributed abstracts

March 31–April 17, 2014: Online Abstract Editing Open

May 1, 2014: Registration & Housing Open (early-bird registration deadline May 29; housing deadline July 2)

Joint Statistical Meetings dates, 2014–2018

IMS sponsored meeting

IMS Annual Meeting @ JSM 2015: August 8–13, 2015, Seattle, USA

w http://amstat.org/meetings/jsm/

IMS sponsored meeting

JSM 2016: July 30–August 4, 2016, Chicago, USA

w http://amstat.org/meetings/jsm/

IMS sponsored meeting

IMS Annual Meeting @ JSM 2017: July 29–August 3, 2017, Baltimore, USA

w http://amstat.org/meetings/jsm/

IMS sponsored meeting

JSM 2018: July 28–August 2, 2018, Vancouver, Canada

w http://amstat.org/meetings/jsm/

At a glance: forthcoming IMS Annual Meeting and JSM dates

2014

IMS Annual Meeting: Sydney, Australia, **July 7–10, 2014** ims-asc2014.com

JSM: Boston, MA, **August 2–7, 2014**

2015

IMS Annual Meeting @ JSM: Seattle, WA, **August 8–13, 2015**

2016

IMS Annual Meeting: Toronto, Canada, dates TBD

JSM: Chicago, IL, **July 30 – August 4, 2016**

2017

IMS Annual Meeting @ JSM: Baltimore, MD, **July 29 – August 3, 2017**

2018

IMS Annual Meeting: TBD

JSM: Vancouver, Canada, **July 28–August 2, 2018**

IMS-ASC 2014 meeting: Sydney, Australia

2014 IMS Annual Meeting & Australian Statistical Conference
July 7–10, 2014, Sydney, Australia
w http://www.ims-asc2014.com/

Registration and abstract submission open now

On behalf of the **Statistical Society of Australia** and the **Institute of Mathematical Statistics**, the organising committee invite you to register to attend the joint Australian Statistical Conference & IMS Annual Meeting, to be held 7–10 July, 2014, in Sydney, Australia. The venue for this meeting is the Australian Technology Park in Sydney.

Delegates from all areas of statistics will join with world class Australian and international statisticians and mathematicians to develop, network and share their knowledge and expertise. In 2014 the Statistical Society of Australia will hold its biannual ASC in conjunction with the IMS Annual Meeting. The conference will provide opportunities for presentations on a wide range of topics and recognizes the role that statistics plays in all aspects of modern life.

The conference objectives are to:

- attract world class statisticians to share their knowledge and expertise,
- inform delegates about new work and developments in statistics, probability and mathematical statistics,
- provide an opportunity for professionals from all of these areas to network, present and discuss ideas.


Iconic Sydney

Abstract submission: ASC–IMS 2014

You are invited to submit an abstract for consideration for a contributed oral or poster presentation, invited session or keynote presentation. Abstract submission is open.
www.ims-asc2014.com/program/

Abstract submission is open until October 30:
http://www.ims-asc2014.com/call-for-abstracts/

You are invited to submit an abstract for consideration as a contributed oral or poster presentation, invited session or keynote presentation at the ASC–IMS 2014 Conference. The deadline is 30 October, 2013.

As this conference is a joint meeting between the Statistical Society of Australia and the Institute of Mathematical Statistics, an extensive and wide-ranging program will be available. As befitting an event of this size, with approximately 12 Keynote presentations and multiple parallel streams, a large portion of the program is by invitation. However, a substantial part of the program is set aside for contributed presentations, both oral and poster. While there is no restriction on the topic or number of contributed presentations, the number of oral presentations is by nature limited.

Abstracts must be of a high scientific quality, contain original research, and must acknowledge all authors contributing to the research.

Themes

Themes for proposals include, but are not limited to, the following topics:
Bayesian Statistics; Bioinformatics; Biostatistics; Computational and Asymptotic Statistics; Causal inference; Dirichlet form theory; Econometrics; Experimental designs; Filtering theory; Finance and Physics; Financial Statistics; Functional data analysis; Graphical models and networks; Gaussian processes; High-dimensional statistics; Heavy tail phenomenon; Infinite dimensional analysis; Large-scale inferences; large deviations; Limit theory; Levy processes; Long range dependence; Malliavin calculus; Mathematical statistics; Markov processes; Measure-valued processes; Multivariate statistics; Nonparametric statistics; Non local operators; Official statistics methodologies; Particle systems; Percolation probability on trees and graphs; Probability; Random matrices; Random surfaces; Sample surveys methodology; SLE Stochastic Analysis; Spatial statistics; Stochastic differential equations; Stochastic optimization; Stochastic models in biology; Stochastic networks; Stochastic processes; Stochastic/statistical modelling; Statistical computing; Statistical learning; Robust statistics; Functional data analysis; Time series

For more information on how to submit your abstract, or about the program, please visit the website, www.ims-asc2014.com

More IMS meetings around the world

IMS co-sponsored meeting

Conference on Modeling High Frequency Data in Finance 5
October 24–26, 2013
Stevens Institute of Technology, Hoboken, New Jersey

w http://www.stevens.edu/hfconference

IMS Representative(s) on Program Committees: Ionut Florescu, Frederi Viens

IMS co-sponsored meeting

International Conference on
Recent Advances in Experimental Designs
December 12–16, 2013
Guangzhou, China

IMS Representative(s) on Program Committees: Jianqing Fan

w http://maths.gzhu.edu.cn/siced2013/

Topics of the conference include, but are not limited to: designs for non-linear models; factorial designs; mixture designs; optimal designs; response surface designs; uniform designs.

Conference registration and abstract submission deadline: 5 October 2013.

IMS co-sponsored meeting

37th Conference on Stochastic Processes and their Applications
July 28–August 1, 2014
Buenos Aires, Argentina

w http://mate.dm.uba.ar/~probab/spa2014/

The 37th Conference on Stochastic Processes and Applications (SPA) will take place in Buenos Aires during the week July 28 to August 1, 2014.

Plenary speakers are: Anton Bovier, Bonn; Ivan Corwin, MIT; Antonio Galves, São Paulo; Christophe Garban, Lyon; Milton Jara, Rio de Janeiro; Gady Kozma, Weizmann Institute; Eyal Lubetzky, Microsoft; Sylvie Méléard, Palaiseau; Felix Otto, Leipzig; Tomohiro Sasamoto, Chiba; Scott Sheffield, MIT; Fabio Toninelli, Lyon; and Balint Tóth, Budapest

Organized under the auspices of the Bernoulli Society for Mathematical Statistics and Probability and co-sponsored by the Institute of Mathematical Statistics.

IMS co-sponsored meeting

38th Conference on Stochastic Processes and their Applications
July 13–17, 2015
Oxford, United Kingdom

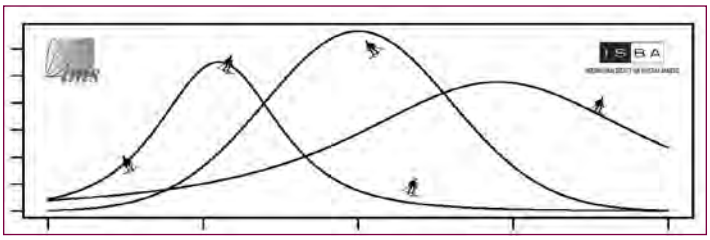
w TBC

IMS co-sponsored meeting

UPDATED

MCMSki IV
January 6–8, 2014
Chamonix Mont-Blanc, France

w http://www.pages.drexel.edu/~mwl25/mcmski/



The fifth joint international meeting of the IMS and ISBA (International Society for Bayesian Analysis), nicknamed "MCMSki IV", will be held in Chamonix Mont-Blanc, France, from Monday, January 6 to Wednesday, January 8, 2014. The meeting, the first for the newly-created BayesComp section of ISBA, will focus on all aspects of MCMC theory and methodology, including related fields like sequential Monte Carlo, approximate Bayesian computation, Hamiltonian Monte Carlo. In contrast with the earlier meetings, it will merge the satellite Adap'ski workshop into the main meeting by having parallel invited and contributed sessions on those different themes, as well as poster sessions on both Monday and Tuesday nights. In addition, a one-day post-conference satellite workshop on Bayesian nonparametrics, modelling and computations ("BNPski)" will be held in the same location on January 9th, 2014.

Please see our conference website, http://www.pages.drexel.edu/~mwl25/mcmski/ for more information, including links to the preliminary program, lodging and travel information, and our conference registration page. Please note the "early bird" registration deadline of October 15, 2013.

Finally (and most importantly for some), we are very pleased to announce that we have received funds from ISBA, SBSS, and other sources sufficient to help support the travel expenses of some junior investigators (defined as current PhD student, or less than 5 years since PhD). Information about how to apply for this support can be found at: http://www.pages.drexel.edu/~mwl25/mcmski/student.html. Note that to apply you must first register with the ISBA website (if you have not done so already) and submit your abstract to the ISBA Abstract Page. Full directions are given at the link above. The deadline to apply for this financial support is also October 15, 2013.

We look forward to welcoming you in Chamonix this January!

Brad Carlin, Antonietta Mira, and Christian Robert
MCMSki IV conference co-organizers

IMS co-sponsored meeting

International Conference
***Ars Conjectandi* 1713–2013**
October 15–16, 2013, Basel, Switzerland
w http://www.statoo.ch/bernoulli13/

IMS Reps on the program committee are Hans Künsch and Lutz Dümbgen.

This conference will celebrate the 300th anniversary of the publication of Jacob Bernoulli's book "Ars Conjectandi" in 1713. It is organised by the Swiss Statistical Society (SSS) and co-sponsored by the Bernoulli Society for Mathematical Statistics and Probability, the IMS and the International Statistical Institute (ISI). The conference will consist of keynote presentations from:

David Aldous, Berkeley
Peter Bühlmann, Zurich
Louis Chen, Singapore
Hans Föllmer, Berlin
Tilmann Gneiting, Heidelberg
Hans-Ruedi Künsch, Zurich
Xiao-Li Meng, Cambridge
Fritz Nagel, Basel
Nancy Reid, Toronto
Stephen Stigler, Chicago
Edith Dudley Sylla, Raleigh
Grace Wahba, Madison

The conference will be combined with the **Swiss Statistics Meeting** to be held on October 16–18, 2013, in Basel, Switzerland, celebrating the 25th anniversary of the Swiss Statistical Society, the 15th anniversary of its section "Official Statistics" and the tenth anniversary of its sections "Education and Research" and "Business and Industry".

Further information, a tentative programme and registration are available at the website above.

In the name of the organising committee, we look forward to welcoming you to Basel in October 2013.

Dr. Diego Kuonen, CStat PStat CSci, Co-president of the organising committee, and President of the Swiss Statistical Society (SSS)

IMS co-sponsored meeting

Seminar on Stochastic Processes 2014
March 26–29, 2014
La Jolla, CA, USA
w http://depts.washington.edu/ssproc/

Contact: Jason Schweinsberg **e** jschwein@math.ucsd.edu

The Seminar on Stochastic Processes (SSP) in 2014 will be held at the University of California at San Diego on March 26–29, 2014. The local organizers will be Patrick Fitzsimmons, Amber Puha, Jason Schweinsberg, and Ruth Williams. The invited speakers will be Rodrigo Banuelos (Kai Lai Chung Lecturer), Sandra Cerrai, Neil O'Connell, Sebastien Roch, and Ramon van Handel. Tutorial lectures aimed at new researchers will be given by Vladas Sidoravicius in the afternoon of Wednesday, March 26, the day before the main SSP program begins.

ENAR, 2014–2016

IMS sponsored meeting

2014 ENAR/IMS Spring Meeting
March 16–19, 2014
Baltimore, Maryland, USA
w http://www.enar.org/meetings.cfm

IMS sponsored meeting

2015 ENAR/IMS Spring Meeting
March 15–18, 2015
Miami, Florida, USA
w http://www.enar.org/meetings.cfm

IMS sponsored meeting

2016 ENAR/IMS Spring Meeting
March 6–9, 2016
Austin, Texas
w http://www.enar.org/meetings.cfm

IMS co-sponsored meeting

INFORMS Applied Probability Society Conference 2015
July 5–8, 2015, Istanbul, Turkey
w TBC

IMS sponsored meeting

2014 WNAR/IMS Annual Meeting
June 15–18, 2014
Honolulu, Hawaii, USA
w http://www.wnar.org/

The 2014 WNAR/IMS meeting will be June 15-18, in Hawaii. It will be held at the Conference Center of the University of Hawaii at Manoa, in Honolulu, HI.

2014 IMS Annual Meeting & Australian Statistical Conference
July 7–10, 2014, Sydney, Australia

UPDATED

w http://www.ims-asc2014.com/

ABSTRACT SUBMISSION CLOSING 30 OCTOBER 2013!

Don't miss out on the fantastic opportunity to get exposure at the ASC-IMS 2014 Meeting. Abstracts can be submitted for oral and poster sessions at http://www.ims-asc2014.com/call-for-abstracts/. Instructions regarding suggested themes, abstract format and guidelines are available on the meeting website.

PROGRAM UPDATE

We are pleased to announce that we have the following world-class statisticians secured to share their knowledge and expertise with you:

IMS Keynote Speakers: Thomas G. Kurtz, University of Wisconsin–Madison; Peter Donnelly, University of Oxford; Terry Lyons, University of Oxford; Nina Gantert, Technische Universität München; Martin Hairer, University of Warwick; Timo Seppäläinen, University of Wisconsin–Madison; Matthew Stephens, University of Chicago; Harrison Zhou, Yale University

ASC Keynote Speakers: Adrian Baddeley, CSIRO/University of Western Australia; Sheila Bird, Cambridge University; Rob Tibshirani, Stanford University; James Brown, University of Southampton

MARK THESE DATES IN YOUR DIARY

Deadline for Receipt of Abstracts:	30 October 2013
Authors Notified of Acceptance:	30 November 2013
Authors Registration, Payment and Early Bird Deadline:	28 February 2014

Don't hesitate to join us and benefit from one of 2014's most memorable educational events.

For more information, please visit www.asc-ims2014.com.

IMS co-sponsored meeting

Third IMS Asia Pacific Rim Meetings
June 30–July 3, 2014
Taipei, Taiwan

UPDATED

NEW website http://ims-aprm2014.ntu.edu.tw/

The third IMS Asia Pacific Rim Meetings will take place in Howard International House (http://intl-house.howard-hotels.com/), Taipei, Taiwan, during the period Monday, June 30–Thursday, July 3, 2014. This meeting series provides an excellent forum for scientific communications and collaborations for researchers in Asia and the Pacific Rim. It also promotes communications and collaborations between the 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, you may contact the program chairs: Byeong U. Park (bupark@stats.snu.ac.kr) and Feifang Hu (fh6e@virginia.edu).

The conference website has been recently changed to http://ims-aprm2014.ntu.edu.tw/

Call for Papers:

Submission of Topic-Contributed Paper Session Proposals ends on October 31, 2013. Submission of Contributed Papers and Posters starts from November 15, 2013 and ends on December 31, 2013.

A Topic-Contributed Paper Session Proposal must include the following: Session title; Format of the session: a chair and four to five speakers; Names, affiliations, and contact information for the session organizer, chair, and all speakers; Title and abstract (not exceeding 400 words) of each presentation in the session. The abstracts should be submitted in PDF format only, using either of the abstract templates provided at http://ims-aprm2014.ntu.edu.tw/TCP.php

Submission of contributed papers and posters starts from November 15 to December 31, 2013. All participants (including distinguished lecturers, discussants, invited speakers) who would like to give a talk or present a poster must submit an abstract. Only online submission will be accepted. The abstract should not exceed 400 words. Late submission will not be accepted. The abstracts should be submitted in PDF format only, using either of the abstract templates provided at http://ims-aprm2014.ntu.edu.tw/CP.php

IMS co-sponsored meeting

16th IMS New Researchers Conference NEW

Boston, Massachusetts

July 31–August 2, 2014

w TBC

The purpose of the conference is to promote interaction and networking among new researchers in probability and statistics.

IMS co-sponsored meeting

37th Conference on Stochastic Processes and their Applications UPDATED

July 28–August 1, 2014

Buenos Aires, Argentina

w http://mate.dm.uba.ar/~probab/spa2014/

SPA 2014: Call for Contributed Sessions

The 37th Conference on Stochastic Processes and their Applications will take place at the University of Buenos Aires, Argentina, from July 28 to August 1, 2014.

The list of plenary speakers is confirmed: Anton Bovier, Ivan Corwin, Laszlo Erdös, Antonio Galves, Christophe Garban, Martin Hairer (Lévy Lecture), Milton Jara, Gady Kozma, Eyal Lubetzky, Sylvie Méléard, Felix Otto, Tomohiro Sasamoto, Scott Sheffield, Fabio Toninelli, and Balint Tóth.

Besides plenary talks, the meeting will have a large number of shorter talks conducted in parallel sessions on different topics. We anticipate around 40 sessions. A list of Invited Sessions can be found at the event webpage. You are welcome to propose a Contributed Session on a topic of your choice - see the webpage for guidelines.

Please note that the deadline for proposing a Contributed Session is October 30, 2013.

More information can be found at the conference website, which is at http://mate.dm.uba.ar/~probab/spa2014/

Organizing Committee: Inés Armendáriz, Pablo A. Ferrari, Pablo Groisman, Matthieu Jonckheere, Nora Muler, Leonardo T. Rolla

Contact **e** spa.conference.2014@gmail.com

Wikipedia says: Caminito ("little walkway" or "little path" in Spanish) is a street museum and a traditional alley, located in La Boca, a neighborhood of Buenos Aires, Argentina. The place acquired cultural significance because it inspired the music for the famous tango "Caminito" (1926), composed by Juan de Dios Filiberto. Photo: Luis Argerich/ Wikimedia Commons

IMS co-sponsored meeting

9th ICSA International Conference NEW

December 20–23, 2013

Hong Kong, China

w http://www.math.hkbu.edu.hk/ICSA2013/

IMS Rep: Elizaveta Levina, Department of Statistics, University of Michigan

The 9th ICSA International Conference will be held at Hong Kong Baptist University, Hong Kong. The theme is "Challenges of Statistical Methods for Interdisciplinary Research and Big Data"

Plenary Speakers

Raymond Carroll, Texas A&M University

Ching-Shui Cheng, University of California, Berkeley and Academia Sinica

Hengjian Cui, Capital Normal University [*Some Developments in High-dimension Statistical Testing*]

Peter Hall, Melbourne University [*Methodology for Nonparametric Deconvolution when the Error Distribution is Unknown*]

Tze Leung Lai, Stanford University [*Covariate Bandit Theory and Its Applications*]

Howell Tong, London School of Economics [*On Conditionally Heteroscedastic AR Models with Thresholds*]

Pao-Lu Hsu Award.

Congratulations to Xiao-Li Meng from Harvard University, Jianqing Fan from Princeton University, and Bin Yu from University of California at Berkeley for being the first recipients of the Pao-Lu Hsu Award. This award recognizes their excellent scholarly accomplishments in statistical research as well as outstanding contributions to the development of sound statistics in Chinese communities. An official award ceremony with special presentations by the award recipients will be held at this conference.

Other meetings around the world

Stats in Paris: Statistics and Econometrics of Networks
NEW

November 18–22, 2013
Paris, France

w http://www.statsinparis.com/

The school and conference is aimed at graduate students, professors and researchers interested in both mathematical statistics and economics. The school and conference is the second edition of Stats in the Chateau 2009 and includes 3 days of graduate courses (November 18–20, 2013) followed by a research conference (November 21–22, 2013).

The school, held between 18-20 November, comprises three mini courses:

1. Probabilistic Foundations of Graphs and Networks, by Laurent Menard (University Paris Ouest)
2. Economics of Networks, by Sanjeev Goyal (University of Cambridge)
3. Statistical Analysis of Network Data, by Eric Kolaczyk (Boston University)

The conference, covering recent research in the statistics and econometrics of networks, will take place between 21-22 November. Invited speakers for the conference include Yann Bramoullé (Aix-Marseille Université), Vasco Carvalho (CREi, Universitat Pompeu Fabra), Thomas Chaney (Toulouse School of Economics), Habiba Djebbari (Aix-Marseille Université), Nial Friel (University College Dublin), Johan Koskinen (University of Manchester), Marc Lelarge (INRIA, ENS Paris), Catherine Matias (CNRS, Université d'Évry, Génopole), Aureo de Paula (CeMMAP, UCL), Imran Rasul (CeMMAP, UCL), Stéphane Robin (INRA, AgroParisTech), Nicolas Verzelen (INRA, Supagro Montpellier).

We will also organize a poster session where participants can present their research. Participants who wish to present a poster can upload a summary of their research while registering for the school/conference. A limited number of MOBILITY GRANTS will be awarded to PhD students and young researchers who present a poster on some research related to Networks. Reimbursement of transportation and accommodation costs is limited to a maximum of 400 euros per candidate against invoices (transport and hotel bills). The paper presented to the conference may further be selected (after review) for inclusion in the *Springer Lecture Notes - Proceedings* issued after the conference. The application procedure and other details for mobility grants can be found at: http://www.statsinparis.com/mobility-grants

Registration for the conference is now open at http://www.statsinparis.com/registration The payment deadline for the school/conference is 28 October 2013.

Lunteren Meeting
NEW

November 11–13, 2013
De Werelt, Lunteren, The Netherlands

w http://homepages.cwi.nl/~colette/lunteren2013.html.

The annual Meeting of Dutch Statisticians and Probabilists will take place November 11–13, 2013, in 'De Werelt' in Lunteren. Those who wish to participate in the meeting - including those who will not stay overnight - are kindly requested to register before October 1st. For registration and detailed information see the website.

Organizers: Frank den Hollander, Marie-Colette van Lieshout and Aad van der Vaart

Workshop on Statistical Issues in Compressive Sensing
NEW

November 11–13, 2013
Göttingen, Germany

w http://math.uni-goettingen.de/sics2013

Theory and applications of compressive sensing have been developing rapidly during the last decade. From the very beginning, a number of statistical issues have been central but are still unexplored to some extent. This includes convergence analysis of sensing algorithms under statistical noise, Bayesian modeling and reconstruction, and more recently, sequential and online approaches, to mention a few topics of current research.

The goal of this workshop is twofold: First, we attempt to bring together researchers who have been working on statistical issues in compressive sensing. Second, problems from various areas of applications will be discussed, which statistical approaches may help to solve.

2014 ICSA and KISS Joint Applied Statistics Symposium
NEW

June 15–18, 2014
Portland, Oregon, USA

w http://www.statkiss.org/icsakiss2014

Contact: Dongseok Choi **e** choid@ohsu.edu

The International Chinese Statistical Association (ICSA) and the Korean International Statistical Society (KISS) Joint Applied Statistics Symposium will be held from Sunday, June 15 to Wednesday, June 18, 2014 at Portland Marriott Downtown Waterfront in Portland, Oregon.

Call for Invited Session Proposals:

The deadline for receipt of invited session proposals is November 1, 2013.

Fall 2013 Program: Theoretical Foundations of Big Data Analysis NEW
October, November & December, 2013 (see dates below)
Simons Institute for the Theory of Computing, UC Berkeley, USA
w http://simons.berkeley.edu/programs/bigdata2013

We live in an era of "Big Data": science, engineering and technology are producing increasingly large data streams, with petabyte and exabyte scales becoming increasingly common. In scientific fields such data arise in part because tests of standard theories increasingly focus on extreme physical conditions (cf., particle physics) and in part because science has become increasingly exploratory (cf., astronomy and genomics). In commerce, massive data arise because so much of human activity is now online, and because business models aim to provide services that are increasingly personalized.

The Big Data phenomenon presents opportunities and perils. On the optimistic side of the coin, massive data may amplify the inferential power of algorithms that have been shown to be successful on modest-sized data sets. The challenge is to develop the theoretical principles needed to scale inference and learning algorithms to massive, even arbitrary, scale. On the pessimistic side of the coin, massive data may amplify the error rates that are part and parcel of any inferential algorithm. The challenge is to control such errors even in the face of the heterogeneity and uncontrolled sampling processes underlying many massive data sets. Another major issue is that Big Data problems often come with time constraints, where a high-quality answer that is obtained slowly can be less useful than a medium-quality answer that is obtained quickly. Overall we have a problem in which the classical resources of the theory of computation—e.g., time, space and energy—trade off in complex ways with the data resource.

Various aspects of this general problem are being faced in the theory of computation, statistics and related disciplines—where topics such as dimension reduction, distributed optimization, Monte Carlo sampling, compressed sampling, low-rank matrix factorization, streaming and hardness of approximation are of clear relevance—but the general problem remains untackled. This program will bring together experts from these areas with the aim of laying the theoretical foundations of the emerging field of Big Data.

Parallel and Distributed Algorithms for Inference and Optimization
October 21–24, 2013
Organizers: Michael Mahoney (Stanford University; chair), Guy Blelloch (Carnegie Mellon University), John Gilbert (UC Santa Barbara), Chris Ré (Stanford University), Martin Wainwright (UC Berkeley)

Unifying Theory and Experiment for Large-Scale Networks
November 18–21, 2013
Organizers: Michael Kearns (University of Pennsylvania; chair), Deepak Agarwal (LinkedIn), Edo Airoldi (Harvard University), Ashish Goel (Stanford University), Matt Jackson (Stanford University), Jennifer Neville (Purdue University)

Big Data and Differential Privacy
December 11–14, 2013
Organizers: Kunal Talwar (Microsoft Research; chair), Avrim Blum (Carnegie Mellon University), Kamalika Chaudhuri (UC San Diego), Cynthia Dwork (Microsoft Research), Michael Jordan (UC Berkeley)

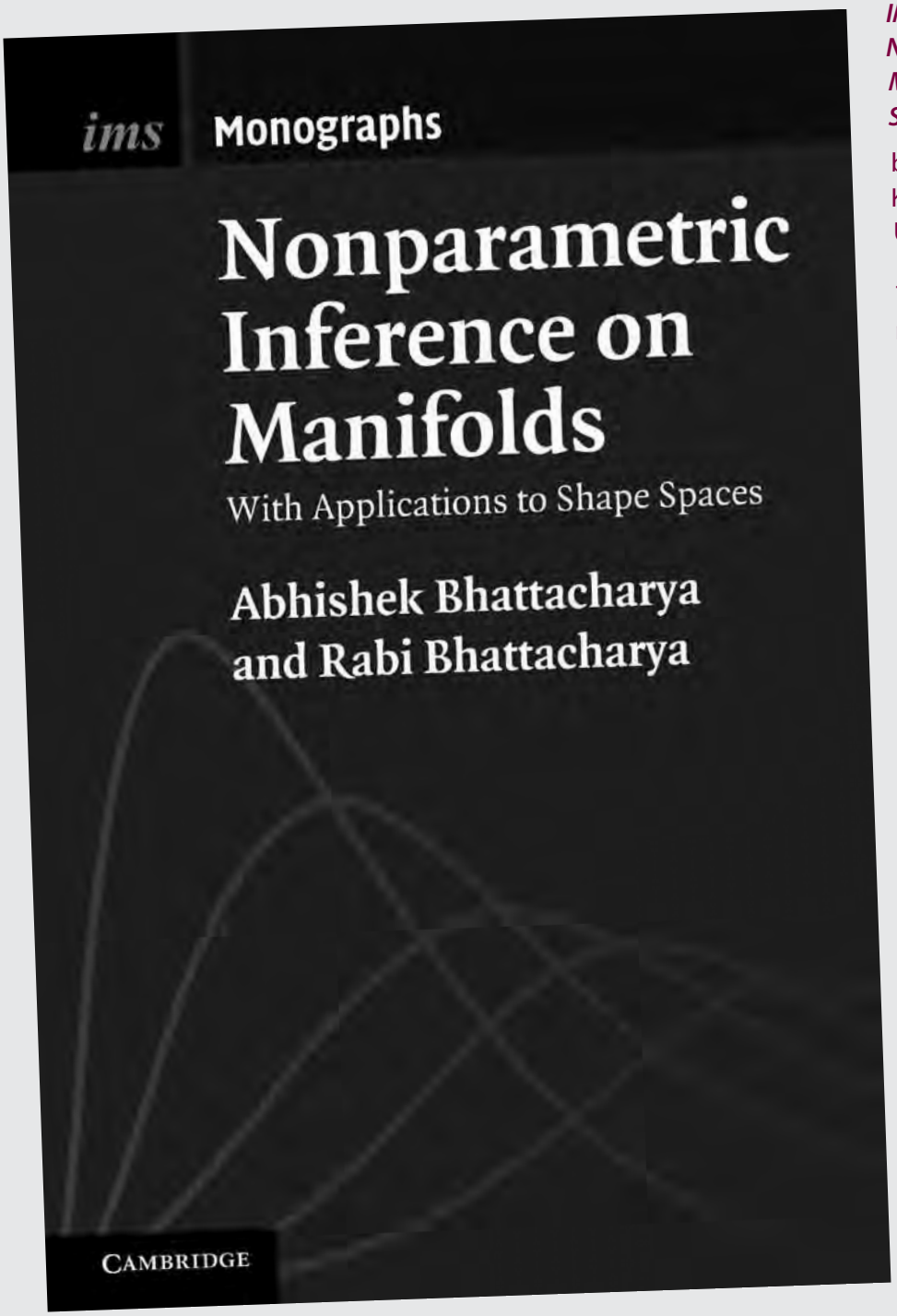
Pan-American Advanced Study Institute on Spatial Statistics NEW
June 16–26, 2014
Búzios, Brazil
w http://www.stat.washington.edu/peter/PASI/PASI_2014.html
Contact:
Peter Guttorp **e** peter@stat.washington.edu

The Institute consists of a summer school in spatial and spatio-temporal statistics, a workshop in nonstationary spatial covariance modeling, and a workshop in multivariate spatial methods. The instructors are among the leading researchers in the field. The summer school will cover a range of topics, with theoretical and applied lectures as well as computer labs. The nonstationary spatial covariance workshop will compare different methods on common data sets provided in advance. The multivariate workshop will present the latest developments.

If you're organizing a meeting and want its details listed here, please visit the "submit a meeting" webpage and fill in the details. Easy.

imstat.org/submit-meeting.html

It's free publicity!



IMS Monographs 2: Nonparametric Inference on Manifolds, with Applications to Shape Spaces

by **Abhishek Bhattacharya**, ISI Kolkata, and **Rabi Bhattacharya**, University of Arizona

This book introduces in a systematic manner a general nonparametric theory of statistics on manifolds, with emphasis on manifolds of shapes. The theory has important and varied applications in medical diagnostics, image analysis, and machine vision. An early chapter of examples establishes the effectiveness of the new methods and demonstrates how they outperform their parametric counterparts. Inference is developed for both intrinsic and extrinsic Fréchet means of probability distributions on manifolds, then applied to shape spaces defined as orbits of landmarks under a Lie group of transformations—in particular, similarity, reflection similarity, affine and projective transformations. In addition, nonparametric Bayesian theory is adapted and extended to manifolds for the purposes of density estimation, regression and classification.

Ideal for statisticians who analyze manifold data and wish to develop their own methodology, this book is also of interest to probabilists, mathematicians, computer scientists and morphometricians with mathematical training.

IMS members, claim your discount: **$48.00** (was $80.00) using this link:
http://www.cambridge.org/discountpromotion/?site_locale=en_US&code=IMSSERIES2

More meetings around the world

23rd International Workshop on Matrices and Statistics (IWMS) NEW
June 8–12, 2014
Ljubljana, Slovenia
w www.law05.si/iwms

The 23rd International Workshop on Matrices and Statistics (IWMS) will be held at the Faculty of Mathematics and Physics at the University of Ljubljana, Slovenia, from June 8–12, 2014.

The main theme of the workshop will be the interplay between matrices and statistics. IWMS will be organized in conjunction with the 7th Linear Algebra Workshop (LAW14) that will start on June 4. The purpose of the IWMS is to stimulate research and, in an informal setting, to foster the interaction of researchers in the interface between statistics and matrix theory. The workshop will provide a forum through which statisticians may be better informed of the latest developments and newest techniques in linear algebra and matrix theory and may exchange ideas with researchers from a wide variety of countries.


Beautiful Ljubljana, Slovenia

More information can be found on the workshop web page: www.law05.si/iwms.

The Third International Workshop on Climate Informatics NEW
September 26–27, 2013
Boulder, CO, USA
w https://www2.image.ucar.edu/event/ci2013
Contact: Bo Li **e** libo@illinois.edu

Workshop Overview

The format of the workshop seeks to overcome cross-disciplinary language barriers and to emphasize communication between participants by featuring tutorials, invited talks, panel discussions, posters and break-out sessions. The programs of previous workshops can be found here:

CI 2012 https://www2.image.ucar.edu/event/ci2012

CI 2011 http://www.nyas.org/Events/Detail.aspx?cid=462a8558-34c0-4e9e-8cca-97ffda5bf7a3

We invite all researchers interested in learning about critical issues and opportunities in the field of climate informatics to join us, whether established in the field or just starting out.

2013 Rao Prize Conference NEW
October 5, 2013
Penn State University, University Park, PA, USA
w www.stat.psu.edu/~rli/raoprize2013.html

The Department of Statistics at Penn State University is holding a one-day conference on Saturday, October 5, 2013 to honor Professor Herman Chernoff (Harvard University), the 2013 Rao Prize winner, and Professor Steve Fienberg (Carnegie Mellon University), the 2013 P. R. Krishnaiah lecturer. See the conference website for more details. For further information, please e-mail questions to RaoPrize2013@psu.edu.

Employment Opportunities around the world

Canada: Waterloo, ON

University of Waterloo, Department of Statistics and Actuarial Science

Chair of Statistics and Actuarial Science

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14171939

Canada: Waterloo, ON

University of Waterloo, Department of Statistics and Actuarial Science

Statistics or Biostatistics - Tenure Track or Tenured

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14399181

Canada: Waterloo, ON

University of Waterloo, Department of Statistics and Actuarial Science

Actuarial Science - Tenure Track or Tenured

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14398989

Canada: Montréal, PQ

Université de Montréal, Département de mathématiques et de statistique

Professor of Mathematics

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14984358

Germany: Mannheim/Heidelberg

University of Mannheim and Heidelberg University, RTG

Postdoctoral Position

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14272253

Italy: Milan

Universita Bocconi, Department of Decision Sciences

Assistant Professor Decision Sciences

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14789368

Kazakhstan: Astana

Nazarbayev University

Open rank positions in Mathematics

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14360483

Kazakhstan: Astana

Nazarbayev University

All Ranks (Professor, Associate, Assistant)

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15115433

Lebanon: Beirut

The American University of Beirut, Department of Mathematics

Assistant Professors in Statistics, Applied, and Pure Mathematics

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14945474

Singapore

Nanyang Technological University, Singapore

Faculty Positions in Analytics

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14493244

Singapore

National University of Singapore
Department of Statistics and Applied Probability
Faculty Positions

Applications are invited for regular positions in Statistics. A PhD in Statistics or a related field is required. The appointments can be in any area of Statistics at any level. For appointment at Associate Professor or Professor level, the applicant should have an outstanding record in research, and demonstrated leadership in teaching and service. For appointment at Assistant Professor level the applicants should have demonstrated potential for excellence in research, teaching and service. There is no deadline for applications but the search will continue until all positions are filled.

Applicants should send an application letter and a CV and arrange for at least THREE reference letters to be sent directly to the Department. Applications should be mailed by post or via e-mail to:

Search Committee
Department of Statistics and Applied Probability
National University of Singapore
6 Science Drive 2
Singapore 117543
E-mail: stasec@nus.edu.sg

NUS offers internationally competitive remuneration, generous research support and funding, relocation assistance and other benefits. The Department of Statistics and Applied Probability has close to 30 faculty, making us one of the largest Departments in Asia. We provide a stimulating environment for our Faculty to develop professionally.

For more information about the University, Faculty of Science, Department and terms of service, visit our websites:
University: http://www.nus.edu.sg/
Faculty of Science: http://www.science.nus.edu.sg/
Department: http://www.stat.nus.edu.sg/
Terms of Service: http://www.nus.edu.sg/careers/potentialhires/workinginnus/benefits.html

香港城市大學
City University of Hong Kong

Worldwide Search for Talent

City University of Hong Kong is a dynamic, fast-growing university that is pursuing excellence in research and professional education. As a publicly-funded institution, the University is committed to nurturing and developing students' talent and creating applicable knowledge to support social and economic advancement. Currently, the University has six Colleges/Schools. Within the next two years, the University aims to recruit **100 more scholars** from all over the world in various disciplines, including **science**, **engineering**, **business**, **social sciences**, **humanities**, **law**, **creative media**, **energy**, **environment**, and other strategic growth areas.

Applications and nominations are invited for :

Chair Professor/Professor/Associate Professor/Assistant Professor
Department of Systems Engineering and Engineering Management *[Ref. A/123/49]*

The Department of Systems Engineering and Engineering Management is looking for talented faculty in emerging and interdisciplinary research areas such as risk engineering and management, quality and reliability engineering, system informatics and data mining, logistics and supply chain management, energy and environment, and other IE/OR related areas.

Requirements : A PhD in a highly relevant discipline with a promising research record and strong teaching ability. Good academic credentials and excellent communication skills are required. Successful candidates are expected to develop new research directions and new courses.

(Information about the Department is available at http://www.cityu.edu.hk/seem/.)

Salary and Conditions of Service
Remuneration package will be very attractive, driven by market competitiveness and individual performance. Excellent fringe benefits include gratuity, leave, medical and dental schemes, and relocation assistance (where applicable). Initial appointment will be made on a fixed-term contract.

Information and Application
Further information on the posts and the University is available at http://www.cityu.edu.hk, or from the Human Resources Office, City University of Hong Kong, Tat Chee Avenue, Kowloon Tong, Hong Kong [Email : hrojob@cityu.edu.hk/Fax : (852) 2788 1154 or (852) 3442 0311].

Please send the nomination or application enclosing i) a current curriculum vitae with evidence of teaching ability in English, and ii) a concise (up to 1 page) statement of research interests and teaching philosophy and at least three references to Head, Department of Systems Engineering and Engineering Management, or e-mail to "sehead@cityu.edu.hk". **Applications and nominations will receive full consideration until the positions are filled** and only shortlisted applicants will be contacted. Please quote the reference of the post in the application and on the envelope. Shortlisted candidates for the post of Assistant Professor will be requested to arrange for at least 3 reference reports sent directly by the referees to the Department, specifying the position applied for. The University's privacy policy is available on the homepage.

The University also offers a number of visiting positions through its "CityU International Transition Team" scheme for current graduate students, postdoctoral scholars, and for early-stage and established scholars, as described at http://www.cityu.edu.hk/provost/cityu_international_transition.htm.

City University of Hong Kong is an equal opportunity employer and we are committed to the principle of diversity. We encourage applications from all qualified candidates, especially those who will enhance the diversity of our staff.

City University of Hong Kong was ranked the 95th among the world's top universities and the 12th in Asia according to the *Quacquarelli Symonds* 2012/2013 surveys.
http://www.cityu.edu.hk

Singapore

Singapore University of Technology and Design

Faculty Members (Stochastics)

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15020752

Switzerland: Lausanne

Swiss Federal Institute of Technology, Lausanne (EPFL)

Postdoctoral/Doctoral Positions in Statistics/Applied Probability at EPFL

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15023029

Taiwan: Taipei

Academia Sinica

Institute of Statistical Science

Regular Research Positions

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14714864

The Institute of Statistical Science, Academia Sinica, is seeking candidates for regular research positions at the level of assistant, associate or full research fellow available in 2014. Candidates in all areas of Statistics will be considered. Candidates should have a PhD degree in statistics or related fields. Application materials must include (1) a curriculum vitae, (2) three letters of recommendation, and (3) representative publications and/or technical reports. Additional supporting materials such as transcripts for new PhD degree recipients may also be included. Except for the letters of recommendation, electronic submissions are encouraged. Applications should be submitted to

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

Applications should be received by December 31, 2013 for consideration.

United Kingdom: Coventry

University of Warwick

Research Fellows

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14982400

United Kingdom: Warwick

University of Warwick

Research Fellows

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15113750

United States: Auburn, AL

Auburn University

Director of Statistical Consulting

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15113881

United States: Berkeley, CA

University of California, Berkeley, Department of Political Science

Assistant or Associate Professor - Quantitative Methods

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15057468

United States: Berkeley, CA

University of California, Berkeley, Department of Statistics

Assistant Professor

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15071951

United States: Fresno, CA

CSU Fresno

Mathematics: Statistics Assistant Professor

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14911401

United States: Los Angeles, CA

UCLA, Department of Mathematics

Faculty Positions 2014–15

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15122762

United States: Los Angeles, CA

UCLA, Department of Statistics

Ladder Faculty

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14742449

United States: Riverside, CA

University of California, Riverside, Department of Statistics

Assistant/Associate Professor in Statistics

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14275359

United States: Santa Barbara, CA

University of California, Santa Barbara

Assistant Professor

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14908658

United States: Santa Cruz, CA

UC Santa Cruz

Assistant Professor of Statistics

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15122781

United States: Los Angeles, CA

University of Southern California

The Department of Mathematics in the Dana and David Dornsife College of Letters, Arts, and Sciences of the University of Southern California in Los Angeles, California, seeks to fill a tenure-track Assistant Professor position with an anticipated start date of August 2014.

Candidates with research interests in analysis, with an emphasis on computational methods and/or statistics, will be considered. Candidates should have demonstrated excellence in research and a strong commitment to graduate and undergraduate education. A doctoral degree is required at the time of appointment.

To apply, please submit the following materials: letter of application and curriculum vitae, including your e-mail address, telephone and fax numbers, preferably with the standardized AMS Cover Sheet. Candidates should also arrange for at least three letters of recommendation to be sent, at least one of which addresses teaching skills. Please submit applications electronically through MathJobs at www.mathjobs.org. As an alternative and only if necessary, materials can be mailed to:

Search Committee
Department of Mathematics
Dornsife College of Letters, Arts and Sciences
University of Southern California
3620 Vermont Avenue, KAP 104
Los Angeles, CA 90089-2532.

In order to be considered for this position, applicants are also required to submit an electronic USC application; follow this job link or paste in a browser:
https://jobs.usc.edu/applicants/Central?quickFind=72260
Review of applications will begin November 15, 2013. Additional information about the USC Dornsife's Department of Mathematics can be found at our web site http://dornsife.usc.edu/mathematics/
USC strongly values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups are encouraged to apply.

United States: Stanford, CA

Stanford University

Faculty opening
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14970751

United States: Stanford, CA

Stanford University, Department of Statistics

Assistant Professor and/or Stein Fellow
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14970734

United States: Stanford, CA

Stanford University, Department of Statistics

Associate or Full Professor
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14970717

United States: Fort Collins, CO

Colorado State University, Department of Statistics

Open Rank Special Appointment Faculty Statistical Consultant
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15084039

United States: New Haven, CT

Yale School of Public Health

Tenure-track Faculty Positions in Biostatistics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14491201

United States: Storrs, CT

University of Connecticut

Assistant Professor of Actuarial Science
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14969931

United States: Atlanta, GA

Georgia Tech

The School of Mathematics at Georgia Tech is accepting applications for faculty positions at all ranks and in all areas of Pure and Applied Mathematics and Statistics. Applications by highly qualified candidates, and especially those from groups underrepresented in the mathematical sciences, are particularly encouraged. See www.math.gatech.edu/resources/employment for more details and application instructions.

United States: Ames, IA

Iowa State University, Departments of Mathematics and Statistics

Assistant or Associate Professor
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14938998

United States: Ames, IA

Iowa State University, Greenlee School of Journalism & Communication

Open Rank: Data-Driven Advertising & Public Relations
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15081895

United States: Grinnell, IA

Grinnell College

Assistant Professor, Statistics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14813455

United States: Ames, IA

Iowa State University

Assistant or Associate Professor of Mathematics and Statistics

The Departments of Mathematics and Statistics at Iowa State University invite applications for the position of assistant or associate professor beginning August 16, 2014. The Departments seek a candidate with research expertise in probability and foundations of statistics. For further information about the departments, please visit our websites at http://www.math.iastate.edu and http://www.stat.iastate.edu.

The new faculty member is expected to have a Ph.D. in mathematics, statistics, or a related field. The successful candidate will have a strong research portfolio in probability theory as it relates to statistics and/or stochastic processes and their application, the potential to obtain external funding, and excellent credentials in both undergraduate and graduate-level teaching. For exceptionally well-qualified candidates, the appointment may be at the level of tenured associate professor.

Qualifications

Required: A Ph.D. or equivalent degree in mathematics, statistics, or a related discipline. Demonstrated potential for superior achievement in research. Excellent teaching record as evidenced by both peer and student evaluations. Appointment at the associate professor level will additionally require an extensive publication record as well as a record of external funding.

Preferred: Two to four years of experience beyond the Ph.D., normally achieved through a postdoctoral position.

Application Instructions

The application process at Iowa State University is a two-part process. Failure to complete both parts of the application process will constitute an incomplete application. Only complete applications will be reviewed.

1. Apply online at Mathjobs.org at https://www.mathjobs.org/jobs. The following materials must be uploaded to constitute a complete application:
    - AMS Cover Sheet
    - Cover Letter
    - Vita
    - Brief statement describing research accomplishments and plans
    - Brief statement describing teaching philosophy and plans
    - Three (3) letters of recommendation—at least one of which should address the candidate's teaching abilities and experiences.
2. Create an online application on the Iowa State University Employment Opportunities website, Position #131092, at https://www.iastatejobs.com. If you have questions about this step in the process, please email employment@iastate.edu or call 515-294-4800 or Toll Free: 1-877-477-7485.

To assure full consideration, applications should be received by November 30, 2013 although we will continue to accept applications until the position is filled. Questions about the application process may be directed to Melanie Erickson, mathsearch@iastate.edu, 515-294-0393.

All offers of employment, oral and written, are contingent upon the university's verification of credentials and other information required by federal and state law, ISU policies/procedures, and may include the completion of a background check.

Iowa State University is an affirmative action/equal opportunity employer and strongly encourages women and members of underrepresented groups to apply.

Qatar: Education City, Doha

Carnegie Mellon Qatar Teaching Position

Applications are invited for a teaching-track faculty position at Carnegie Mellon Qatar in Education City, Doha. This position emphasizes undergraduate teaching primarily, but also involves a combination of course development and/or research. All areas of statistics are welcome.

See http://www.stat.cmu.edu (email: hiring@stat.cmu.edu).

Send CV, relevant transcripts, teaching statement, and three recommendation letters to: *Search Committee, Statistics, Carnegie Mellon University, Pittsburgh, PA 15213* or hiring@stat.cmu.edu.

Women and minorities are encouraged to apply. AA/EOE.

United States: Iowa City, IA

University of Iowa, Department of Biostatistics

Tenure-track faculty positions

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14158228

United States: Moscow, ID

University of Idaho

Assistant Professor of Mathematical Biology

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14421411

United States: Bloomington, IN

Indiana University

Assistant or Associate Professor of Statistics

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14909182

United States: Cambridge, MA

Harvard University Statistics Department

Assistant Professor, Professor of Statistics

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=11096713

United States: Boston, MA

Boston University, Department of Mathematics and Statistics

Assistant Professor in Statistics

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14878821

United States: Ann Arbor, MI

University of Michigan

Tenure-Track Assistant Professor

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14070106

United States: Springfield, MO

Missouri State University, Department of Mathematics

Assistant Professor

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14953946

United States: Chapel Hill, NC

Univ of North Carolina at Chapel Hill, Dept. of Biostatistics

Postdoctoral Trainee

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14969856

United States: Charlotte, NC

UNC Charlotte

Assistant Professor, Statistics

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15071306

United States: Raleigh, NC

North Carolina State University, Department of Statistics

Assistant Professor - Tenure Track

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15071448

United States: Ithaca, NY

Faculty Positions – School of Operations Research & Information Engineering (ORIE)

Cornell is a community of scholars, known for intellectual rigor and engaged in deep and broad research, teaching tomorrow's thought leaders to think otherwise, care for others, and create and disseminate knowledge with a public purpose.

Cornell University's School of Operations Research and Information Engineering (ORIE) seeks to fill up to two tenured/tenure-track faculty positions for its Ithaca campus. Applicants with research interests in all areas of operations research and information engineering will be considered, but applicants in areas aligned with the School's current strategic plan will receive primary consideration: the plan seeks to strengthen the School's leading role in advancing the analytical, methodological, and modeling tools of operations research together with the potential of "Big Data" and the information revolution.

Requisite is a strong interest in the broad mission of the School, exceptional potential for leadership in research and education, an ability and willingness to teach at all levels of the program, and a PhD in operations research, mathematics, statistics, or a related field by the start of the appointment. Salary will be appropriate to qualifications and engineering school norms.

Cornell ORIE is a diverse group of high-quality researchers and educators interested in probability, optimization, statistics, simulation, and a wide array of applications such as manufacturing, e-commerce, supply chains, scheduling, transportation systems, health care, financial engineering, service systems and network science. We value mathematical and technical depth and innovation, and experience with applications and practice. Ideal candidates will have correspondingly broad training and interests.

Please apply online at **https://academicjobsonline.org/ajo/jobs/3039** with a cover letter, CV, statements of teaching and research interests, sample publications, list of reference letter writers and, for junior applicants, a doctoral transcript. Applications will be reviewed starting on October 1, 2013 (prior to the annual INFORMS conference); although all applications completed by November 15, 2013, will receive full consideration, candidates are urged to submit all required material as soon as possible. Applications will be accepted until the positions are filled.

ORIE and the College of Engineering at Cornell embrace diversity and seek candidates who can contribute to a welcoming climate for students of all races and genders. Cornell University seeks to meet the needs of dual career couples, has a Dual Career program, and is a member of the Upstate New York Higher Education Recruitment Consortium to assist with dual career searches. Visit **http://www.unyherc.org/home/** to see positions available in higher education in the upstate New York area. Cornell University is an equal opportunity, affirmative action educator and employer. We strongly encourage qualified women and minority candidates to apply.

Find us online at http://hr.cornell.edu/jobs or
Facebook.com/CornellCareers

Cornell University is an innovative Ivy League university and a great place to work. Our inclusive community of scholars, students and staff impart an uncommon sense of larger purpose and contribute creative ideas to further the university's mission of teaching, discovery and engagement. Located in Ithaca, NY, Cornell's far-flung global presence includes the medical college's campuses on the Upper East Side of Manhattan and in Doha, Qatar, as well as the new CornellNYC Tech campus to be built on Roosevelt Island in the heart of New York City.

Diversity and inclusion have been and continue to be a part of our heritage. Cornell University is a recognized EEO/AA employer and educator.

United States: Research Triangle Park, NC

SAMSI

Deputy Director

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=13989039

United States: Las Cruces, NM

New Mexico State University

Assistant Professor

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15055077

United States: Binghamton, NY

Binghamton University

Assistant Professor - Tenure Track

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15114544

United States: Ithaca, NY

Cornell University

Faculty Positions: School of ORIE

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14781530

United States: New York, NY

Columbia University, Department of Mathematics and Department of Statistics

Assistant/Associate Professor

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14969812

United States: Columbus, OH

Mathematical Biosciences Institute

MBI Early Career Award and Postdoctoral Fellowships

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=14793448

United States: Corvallis, OR

Oregon State University, Department of Statistics

Assistant/Associate/Full Professor

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15114786

United States: Eugene, OR

University of Oregon

Assistant, Associate, or Full Professor Quantitative Biology

http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15114763

United States: New York, NY

Columbia University Department of Statistics

Faculty Position Starting Fall 2014

The Department of Statistics invites applications for a faculty position in applied/interdisciplinary statistics to begin July 1, 2014. The position may be filled at any rank from tenure-track assistant professor through full professor with tenure. A Ph.D. in statistics or a related field and commitment to high quality research and teaching in statistics and/or probability are required. Candidates will be expected to sustain an active research and publication agenda and to teach in the departmental undergraduate and graduate programs. The department currently consists of 22 faculty members, 40 PhD students, and over 100 MS students. The department has been expanding rapidly and, like the University itself, is an extraordinarily vibrant academic community. For further information about the department and our activities, centers, research areas, and curricular programs, please go to our web page at: http://www.stat.columbia.edu

Please initiate the application process at https://academicjobs.columbia.edu/applicants/Central?quickFind=58288

At Columbia's Recruitment of Academic Personnel (RAPS) secure website linked above, applicants at all ranks are asked please to create the applicant profile and upload the Curriculum Vitae. The completion of this brief process in RAPS is indicated by a confirmation number which the applicant should retain.

To complete the application process, applicants at all ranks must submit materials through Head Hunter at https://editorialexpress.com/hhc . The Department of Statistics positions will be visible in Head Hunter by clicking on "Positions" after logging in to the Candidate Application Interface.

In Head Hunter, applicants for this position at the assistant professor or non-tenured associate professor rank should submit a cover letter, Curriculum Vitae, a brief statement of their research plans, one writing sample, and arrange for three letters of reference to be sent on their behalf. Applicants at the tenured associate professor or full professor rank should submit a cover letter, Curriculum Vitae, and a statement of research.

Please note that an application will not be considered complete unless the process is completed in both Head Hunter and the Columbia RAPS system.

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

Review of applications begins on December 2, 2013 and will continue until the position is filled.

Columbia University is an Equal Opportunity/Affirmative Action employer.

United States: Research Triangle Park, NC

National Institute of Statistical Sciences (NISS)

Deputy Director

The National Institute of Statistical Sciences (NISS) was established in 1990 by the national statistics societies and the Research Triangle universities, to "identify, catalyze and foster high-impact, cross-disciplinary and cross-sector research involving the statistical sciences." It does so by means of research projects funded by government and the private sector, the fifty-member Affiliates Program, and as a partner in operation of the NSF-funded Statistical and Applied Mathematical Sciences Institute (SAMSI).

NISS | The Statistics Community Serving the Nation

To expand its scale, its impact and its relationships within the statistical sciences community, NISS seeks to appoint an energetic, visionary individual as Deputy Director. This person may, in addition, hold a faculty appointment at one of the Research Triangle universities. The position is based in Research Triangle Park, NC, and reports to the Director of NISS.

The principal responsibility of the Deputy Director is to *expand and diversify the NISS research program*. The Deputy Director will develop high-impact cross-disciplinary and cross-sector projects addressing major societal problems such as healthcare, education and official statistics; work with NISS affiliates and others to form multi-institution research teams; secure the necessary resources; and carry out the research. Mentoring postdoctoral fellows will also be a central activity.

The Deputy Director will, in addition, be an Associate Director of SAMSI, and in this capacity, will *oversee and nurture the NISS–SAMSI relationship*. Key goals are to strengthen the role of NISS as a stimulus for SAMSI programs and to realize the potential of NISS projects catalyzed by SAMSI programs.

Criteria for the position include a Ph.D. in the statistical sciences or a related discipline; a strong record of scientific activity and creativity; experience in assembling, generating funding for, and managing cross-disciplinary, multi-organization collaborations; superb communication skills; and passion for what NISS can do to lead the statistics community in serving the nation.

Applications, expressions of interest and nominations should be sent to DDSearch14@niss.org. Both NISS Director Alan Karr and search committee chair Roger Hoerl may be contacted at this e-mail address with questions. Applications should consist of a letter of interest, CV and names of five references. Review of applications will begin in October 2013, and will continue until the Deputy Director is appointed.

NISS is committed to recognizing and nurturing merit, talent, and achievement by supporting diversity and equal opportunity in all of its activities. NISS does not discriminate against employees or applicants for employment on any legally recognized basis, including, but not restricted to, race, color, religion, gender, national origin, sexual orientation, age, physical or mental disability, veteran status, or uniformed service member status. NISS seeks and welcomes applications from women and members of historically underrepresented groups.

United States: Philadelphia, PA

Wharton School, University of Pennsylvania

The Department of Statistics of the Wharton School, University of Pennsylvania, is seeking applicants for a full-time, tenure-track faculty position at any level: Assistant, Associate, or Full Professor. Applicants should show outstanding capacity and achievement in research, as well as excellent teaching and communication skills. Applicants must have a Ph.D. (expected completion by June 30, 2015 is acceptable) from an accredited institution. The appointment is expected to begin July 1, 2014.

The department, located in the business school, provides services to the whole university and is interested in applicants in all scientific areas.

Please visit our website, https://statistics.wharton.upenn.edu/recruiting/facultypositions, for a description of the department and link to submit a CV and other relevant material. Any questions should be addressed to "Chair of the Search Committee" and sent to statistics.recruit@wharton.upenn.edu.

The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania is an equal opportunity, affirmative action employer. Women, minority candidates, veterans and individuals with disabilities are strongly encouraged to apply.

United States: Pittsburgh, PA

Carnegie Mellon University
Teaching Professor Position

Applications are invited for the position of Teaching Professor, rank (Assistant, Associate or Full) to be determined. The Department of Statistics, Carnegie Mellon University is seeking a passionate, master teacher to contribute to our thriving, modern undergraduate and graduate programs. The successful candidate will be expected to have a strong and successful teaching record, demonstrate excellence in statistical pedagogy, and an active research agenda. This position emphasizes teaching, student advising, curriculum development, and supervising collaborative research projects. PhD in statistics, biostatistics or related area required. See http://www.stat.cmu.edu or email hiring@stat.cmu.edu for more details. Send CV, relevant transcripts, teaching and research statements, and three recommendation letters to: *Teaching Faculty Search Committee, Statistics, Carnegie Mellon University, Pittsburgh, PA 15213, USA* or hiring@stat.cmu.edu. Application screening begins immediately, continues until positions closed. Women and minorities are encouraged to apply. AA/EOE.

United States: Pittsburgh, PA

Carnegie Mellon University
Tenure-track/Visiting position

Applications are invited for possible tenure-track 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.

United States: Brookings, SD

South Dakota State University

Assistant Professor of Statistics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15110535

United States: Austin, TX

The University of Texas at Austin

Assistant Professor, Statistics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=15016138

United States: Houston, TX

Rogue Wave Software, Inc.

Statistician
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=13444846

United States: Columbia, SC

University of South Carolina Department of Statistics

Full/Associate/Assistant Position and Assistant Professor Position

The Department of Statistics at the University of South Carolina, Columbia invites applications for two positions: an open rank tenure-track Full/Associate/Assistant Professor, and a tenure-track Assistant Professor. Both appointments will commence on August 16, 2014.

The research focus for the open rank position is in the theory, methodology, and computational aspects related to the analysis of high-dimensional data, such as those in bioinformatics, proteomics, and other "-omics" studies; brain imaging; remote sensing; astronomy, and statistical learning. Applicants must have a PhD in the Statistical Sciences and show evidence of outstanding research potential or accomplishment, and a willingness to collaborate and be involved in interdisciplinary research. Applicants should have appropriate teaching experience and demonstrate evidence of excellence in teaching.

The research focus for the Assistant Professor position will be in highly-structured data analysis, though other related research areas will also be considered. Applicants must have a PhD in the Statistical Sciences and must show potential to become an outstanding researcher and demonstrate evidence of excellence in teaching.

Review of applications will begin November 30, 2013. A curriculum vita and at least three letters of reference are required. Applications for this position should be sent to *Faculty Search Committee, Department of Statistics, University of South Carolina, Columbia, SC 29208 USA*. The e-mail address is FacultySearch@stat.sc.edu.

The Department currently consists of thirteen tenured/tenure-track faculty and three full-time instructors. Current research areas of the faculty and graduate students include Bayesian inference, survival analysis and reliability, statistical shape analysis, high-dimensional data analysis, latent variable and mixed effects models, simultaneous inference, group and pooled sample inference, psychometrics and educational measurement, and biomedical and environmental applications. The Department has approximately 35 full-time graduate students each year and offers PhD, MS, Master of Applied Statistics (MAS), and BS degrees. For more information about the University and the Department see the websites www.sc.edu and www.stat.sc.edu.

The University of South Carolina's main campus is located in the state capital, close to the mountains and the coast. The Carnegie Foundation for the Advancement of Teaching has designated the University of South Carolina as one of only 73 public and 32 private academic institutions with "very high research activity" and also lists USC as having strong focus on community engagement. The University has over 31,000 students on the main campus (and over 46,000 students system-wide), more than 350 degree programs, and a nationally-ranked library system that includes one of the nation's largest public film archives. Columbia, the capital of South Carolina, is the center of a greater metropolitan area with a population over 750,000.

The University of South Carolina is an affirmative action, equal opportunity employer. Minorities and women are encouraged to apply. The University of South Carolina does not discriminate in educational or employment opportunities or decisions for qualified persons on the basis of race, color, religion, sex, national origin, age, disability, sexual orientation, or veteran status.

Employment Opportunities around the world

United States: Madison, WI

Assistant/Associate/Full Professor of Biostatistics or Bioinformatics
Department of Biostatistics & Medical Informatics
University of Wisconsin School of Medicine & Public Health
and Morgridge Institute For Research

The Department of Biostatistics & Medical Informatics (BMI) at the University of Wisconsin School of Medicine & Public Health (SMPH), in collaboration with the Morgridge Institute for Research (MIR), seeks a tenure track assistant/associate/full professor starting by August 2014. Candidates should have a PhD in Biostatistics, Statistics, Bioinformatics, Computational Biology, Biomedical Informatics, Computer Sciences, or a closely related quantitative area, and demonstrated ability to work in a collaborative, interdisciplinary environment.

Relevant expertise may include, but is not limited to, high-dimensional inference, data integration, graphical modeling, experimental design, network analysis, statistical genetics/genomics, machine learning, optimization, combinatorial algorithms, and image analysis. The incumbent will conduct, publish, and disseminate collaborative and methodological research at the forefront of his/her discipline, including maintaining his/her own independent research program. Attracting and maintaining external funding are parts of the position expectations. Responsibilities will include training graduate students, teaching one BMI course per year, and participating in professional, university, and community service appropriate to rank.

The successful candidate will join the BMI Department, home to faculty with expertise in bioinformatics; clinical informatics; image analysis; biostatistics; and statistical genetics and genomics. Faculty collaborate with scientists across UW and the state, including MIR, the Wisconsin Institute for Discovery, the Institute for Clinical and Translational Research, the Carbone Cancer Center, and the Marshfield Clinic Research Foundation. The Department maintains strong ties to the world-class Departments of Computer Sciences, Statistics, and Industrial & Systems Engineering, through which many of its graduate students are trained.

Simultaneously, the successful candidate will join an energetic team of investigators in the Virology Focus Area of MIR, which is furthering understanding and control of viruses and their roles in human disease. The interdisciplinary environment of MIR provides an exciting context for quantitative methodological, computational, and theoretical advances expected of a tenured or tenure track professor in BMI. MIR is part of the twin institutes of the Wisconsin Institutes for Discovery, a public-private initiative that facilitates interdisciplinary research and breakthrough discoveries to advance human health and well-being. The ultra-modern MIR laboratory and computational research facility is located across the street from the BMI suite of offices on the central UW–Madison campus, and has become a hub of collaborative scholarship.

The University of Wisconsin–Madison is a world-class academic institution with an international reputation for basic, applied, and interdisciplinary research. UW–Madison recently surpassed $1 billion in annual research expenditures and ranks third in the nation in science and engineering expenditures. Madison provides a vibrant, culturally rich environment highly ranked in national surveys for quality of life.

To ensure full consideration, applications must be received by December 15, 2013. Please see PVL #77619, http://www.ohr.wisc.edu/WebListing/Unclassified/PVLSummary.aspx?pvl_num=77619 for application procedures.

AA/EOE. Women and minorities are encouraged to apply. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality. A criminal background check will be required prior to employment.

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

October 2013

October 2–3: ICERM, San Antonio, TX. **Modern Math Workshop w** http://www.samsi.info/workshop/modern-math-workshop-2013-october-2-3-2013

NEW October 5: Penn State University, University Park, PA, USA. **2013 Rao Prize Conference w** http://www.stat.psu.edu/~rli/raoprize2013.html

October 9–11: SAMSI, Research Triangle Park, NC. **Dynamics of Seismicity, Earthquake and Patterns in Fault Networks w** http://www.samsi.info/workshop/2013-dynamics-seismicity-earthquake-clustering-and-patterns-fault-networks-october-9-11-201

October 10–12: Mt Pleasant, MI, USA. **International Conference on Statistical Distributions and Applications w** http://people.cst.cmich.edu/lee1c/icosda/

IMS October 15–16: Basel, Switzerland. **International Conference *Ars Conjectandi* 1713–2013 w** http://www.statoo.ch/bernoulli13/

October 21–23: SAMSI, Research Triangle Park, NC. **CMSS: Social Network Data: Collection and Analysis w** http://www.samsi.info/workshop/2013-14-cmss-social-network-data-collection-and-analysis-oct-21-23-2013

October 21–23: Dera Ghazi Khan, Pakistan. **11th International Conference on Statistical Sciences:** *Social Accountability, Global Economics and Human Resource Development with Special Reference to Pakistan* **w** http://www.analyticbridge.com/group/conferences/forum/topics/11th-international-conference-on-statistical-sciences

October 21–23: Knoxville, TN. NIMBioS Investigative Workshop: **Multidisciplinary Approaches to Analyzing Animal Vocal Communication Sequences w** http://www.nimbios.org/workshops/WS_vocal

NEW October 21–24: Simons Institute, UC Berkeley, USA. **Parallel and Distributed Algorithms for Inference and Optimization w** http://simons.berkeley.edu/programs/bigdata2013

October 24–25: SAMSI, Research Triangle Park, NC. **Education and Outreach: Undergraduate Workshop w** http://www.samsi.info/workshop/undergraduate-workshop-october-24-25-2013

October 28 – November 9: Tunis, Tunisia. **Lévy Processes and Self-similarity 2013 w** http://levy-autosimilarity-tunis2013.math.cnrs.fr/index.html

November 2013

November 7: Rutgers Busch Campus, Piscataway, NJ, USA. **Rutgers "Statistics for Financial Risk Management" Conference w** http://fsrm.rutgers.edu/nov-7-conference-program

November 9–16: Cochin, Kerala, India. **International Conference & Workshop on Fractals and Wavelets w** www.icfwrajagiri.in

NEW November 11–13: De Werelt, Lunteren, The Netherlands. **Lunteren Meeting w** http://homepages.cwi.nl/~colette/lunteren2013.html

NEW November 11–13: Göttingen, Germany. **Workshop on Statistical Issues in Compressive Sensing w** http://math.uni-goettingen.de/sics2013

November 14–15: Harvard Medical School, Boston, MA, USA. **2013 PQG Conference: Emerging Quantitative Issues in Disease Epigenetics w** http://www.hsph.harvard.edu/2013-pqg-conference/

November 14–15: NIMBioS at the University of Tennessee, Knoxville. **NIMBioS Investigative Workshop: Insect Pest Resistance Evolution w** http://www.nimbios.org/workshops/WS_pestresist

NEW November 18–21: Simons Institute, UC Berkeley, USA. **Unifying Theory and Experiment for Large-Scale Networks w** http://simons.berkeley.edu/programs/bigdata2013

NEW November 18–22: Paris, France. **Stats in Paris: Statistics and Econometrics of Networks w** http://www.statsinparis.com/

International Calendar *continued*

December 2013

December 1–5: Mandurah, Western Australia. **Biometrics by the Canals: The International Biometric Society's Australasian Region Conference 2013** **w** http://www.biometricsociety.org.au/conferences/Mandurah2013/

December 2–4: Oviedo, Spain. **EUROFUSE2013 on Imprecision and Uncertainty in Preference Modeling and Decision Making** **w** http://eurofuse2013.uniovi.es/

December 8–13: Atlantic City, NJ, USA. **69th Annual Deming Conference on Applied Statistics** **w** http://www.demingconference.com/

NEW December 11–14: Simons Institute, UC Berkeley, USA. **Big Data and Differential Privacy** **w** http://simons.berkeley.edu/programs/bigdata2013

Meeting organizer's to-do list

www.imstat.org/submit-meeting.html

IMS December 12–16: Guangzhou, China. **International Conference on Recent Advances in Experimental Designs** **w** http://maths.gzhu.edu.cn/siced2013/

December 15–19: Durham, NC, USA. **OBayes 2013** **w** http://bayesian.org/sections/OB/obayes-2013-celebrating-250-years-bayes

December 16–18: Pune, Maharashtra, India. **International Conference: Role of Statistics in the Advancement of Science and Technology** **w** http://stats.unipune.ac.in/Conf13.html

IMS December 20–23: Hong Kong, China. **2013 ICSA International Conference** **w** http://www.math.hkbu.edu.hk/ICSA2013/

December 28–31: CRRao AIMSCS, India. **Statistics 2013: Socio-Economic Challenges and Sustainable Solutions** **w** www.statistics2013-conference.org.in

January 2014

IMS January 6–8: Chamonix, France. **MCMSki IV** **w** http://www.pages.drexel.edu/~mwl25/mcmski/

January 17–18: Gainesville, Florida, USA. **Workshop on Dimension Reduction and High Dimensional Inference** **w** http://www.stat.ufl.edu/symposium/2014/index.html

February 2014

February 3–7: SAMSI, Research Triangle Park, NC. **LDHD: Topological Data Analysis** **w** http://www.samsi.info/workshop/2013-14-ldhd-topological-data-analysis-february-3-7-2014

February 20–21: SAMSI, Research Triangle Park, NC. **Education and Outreach: Undergraduate Workshop** **w** http://www.samsi.info/workshop/undergraduate-workshop-february-20-21-2014

February 24–26: SAMSI, Research Triangle Park, NC. **LDHD: Statistical Inference in Sparse High-Dimensional Models: Theoretical and Computational Challenges** **w** http://www.samsi.

info/workshop/2013-14-ldhd-statistical-inference-sparse-high-dimensional-models-theoretical-and-computati

March 2014

March 4–7: Ulm, Germany. **11th German Probability and Statistics Days** **w** http://www.gpsd-ulm2014.de/

March 6–8: Ulm, Germany. **Conference on Modelling, Analysis and Simulation in Econamathematics** **w** http://graduiertenkolleg.gpsd-ulm2014.de/

March 7–9: Dallas, Texas, USA. **Ordered Data Analysis, Models and Health Research Methods:** An International Conference in Honor of H.N. Nagaraja for his 60th Birthday **w** http://faculty.smu.edu/ngh/hnnconf.html

March 16–19: Baltimore, Maryland. **2014 ENAR/IMS Spring Meeting.** **w** http://www.enar.org/meetings.cfm

March 17–19: Knoxville, Tennessee, USA. **NIMBioS Investigative Workshop: Vectored Plant Viruses** **w** http://www.nimbios.org/workshops/WS_plantviruses

May 2014

May 29–31: University of Maryland, College Park, USA. **Frontiers of Hierarchical Modeling in Observational Studies, Complex Surveys and Big Data: Conference Honoring Professor Malay Ghosh** **w** http://www.jpsm.umd.edu/ghosh

June 2014

June 2–6: Będlewo, Poland. **11th International Conference on Ordered Statistical Data** **w** http://bcc.impan.pl/14OrderStat/

NEW June 8–12: Ljubljana, Slovenia. **23rd International Workshop on Matrices and Statistics (IWMS)** **w** www.law05.si/iwms

June 15–18: Honolulu, Hawaii. **2014 WNAR/IMS Annual Meeting** **w** TBC

NEW June 15–18: Portland, OR, USA. **2014 ICSA and KISS Joint Applied Statistics Symposium** **w** http://www.statkiss.org/icsakiss2014

NEW June 16–26: Búzios, Brazil. **Pan-American Advanced Study Institute on Spatial Statistics** **w** http://www.stat.washington.edu/peter/PASI/PASI_2014.html

June 23–25: Center for Mathematical Sciences, University of Cambridge, UK. **Probability and Statistics in High and Infinite Dimensions: Conference on the occasion of Evarist Giné's 70th Birthday** **w** http://www.statslab.cam.ac.uk/~nickl/Site/2014.html

June 30–July 3: Taipei, Taiwan. **Third IMS Asia Pacific Rim Meetings NEW WEBSITE** http://ims-aprm2014.ntu.edu.tw/

June 30–July 3: Athens, Greece. **8th Annual International Conference on Mathematics Education & Statistics Education** **w** http://www.atiner.gr/edumatsta.htm

July 2014

July 1–4: Montpellier, France. **International Statistical Ecology Conference** **w** http://isec2014.sciencesconf.org/

July 7–9: Huquan Hotel, Mile, Yunnan, China. **Building Statistical Methodology and Theory 2014: In honor of Jeff Wu's 65th birthday** **w** http://www.stat.purdue.edu/~sunz/Jeff_2014/index.html

July 7–10: Sydney, Australia. **2014 IMS Annual Meeting with Australian Statistical Conference** **w** http://www.asc-ims2014.com/

2014 IMS Meeting in conjunction with the Australian Statistical Conference: **abstract submission closes 30 October 2013**

July 28 – August 1: Buenos Aires, Argentina. **37th Conference on Stochastic Processes and Applications** **w** http://mate.dm.uba.ar/~probab/spa2014/

Continues on **page 38**

International Calendar *continued*

July 2014 *continued*

NEW July 31 – August 2: Boston, MA. **16th New Researchers Conference w** TBC

August 2014

August 2–7: Boston, MA. **JSM2014 and ASA's 175th Anniversary. w** http://amstat.org/meetings/jsm/

August 13–21: Seoul, Korea. **International Congress of Mathematicians: ICM2014 w** http://www.icm2014.org

August 25–27: Kermanshah, Iran. **12th Iranian Statistical Conference w** http://isc12.razi.ac.ir/index.php?slc_lang=en&sid=1

September 2014

September 22–26: Cartagena de Indias, Colombia **XIII CLAPEM: Congreso Latino-americano de Probabilidad y Estadística Matemática w** http://www.clapem.unal.edu.co/

June 2015

June (exact dates TBC): Location TBC. **2015 WNAR/IMS Annual Meeting w** TBC

July 2015

July 5–8: Istanbul, Turkey. **INFORMS Applied Probability Society Conference 2015 w** TBC

July 13–17: Oxford, UK. **38th Conference on Stochastic Processes and Applications w** TBC

August 2015

August 8–13: Seattle, WA. **IMS Annual Meeting at JSM2015. w** http://amstat.org/meetings/jsm/

March 2016

March 6–9: Austin, Texas. **2016 ENAR/IMS Spring Meeting w** http://www.enar.org/meetings.cfm

July 2016

July 30 – August 4: Chicago, USA. **JSM 2016 w** http://amstat.org/meetings/jsm/

July/August 2016

Dates TBC: Toronto, ON, Canada. **IMS Annual Meeting at 9th World Congress in Probability and Statistics w** TBC

July 2017

July 29 – August 3: Baltimore, USA. **IMS Annual Meeting at JSM 2017 w** http://amstat.org/meetings/jsm/

July 2018

July 28 – August 2: Vancouver, Canada. **JSM 2018 w** http://amstat.org/meetings/jsm/

Are we missing something? If you know of any statistics or probability meetings which aren't listed here, please let us know.
You can email the details to Elyse Gustafson at erg@imstat.org, or you can submit the details yourself at http://www.imstat.org/submit-meeting.html
We'll list them here in the Bulletin, and online too, at www.imstat.org/meetings

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4: June/July	**May 1**	May 15	June 1
5: August	**July 1**	July 15	August 1
6: September	**August 15**	September 1	September 15
7: Oct/Nov	**September 15**	October 1	October 15
8: December	**November 1**	November 15	December 1

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