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IMS Bulletin

April/May 2013

CONTENTS

Elect new Council members

The annual IMS elections are announced, with one candidate for President-Elect (Erwin Bolthausen) and, this year, 12 candidates standing for six places on Council. The Council nominees, in alphabetical order, are: Sourav Chatterjee, Richard Davis, Holger Dette, Rick Durrett, Steffen Lauritzen, Susan Murphy, Leonid Mytnik, James Norris, Akimichi Takemura, Jonathan Taylor, Jane-Ling Wang and Ofer Zeitouni. You can read their statements starting on page 14.


Erwin Bolthausen


Sourav Chatterjee


Richard Davis


Holger Dette


Rick Durrett


Steffen Lauritzen


Susan Murphy


Leonid Mytnik


James Norris


Akimichi Takemura


Jonathan Taylor


Jane-Ling Wang


Ofer Zeitouni

This year there will also be the opportunity to vote on two amendments to the IMS Constitution and Bylaws. The first of these arose because this year the IMS Nominating Committee has proposed for President-Elect a current member of Council (Erwin Bolthausen). This brought up an interesting consideration regarding the IMS Bylaws. In order to ensure the policy is clear for the future, the IMS Council proposes the following amendment to the Bylaws.

CURRENT BYLAWS (Article 2, Section 1): *Five Members shall be elected to the Council by the Members of the Institute to serve for a term of three years. Vacancies in the elected Council occurring subsequent to an election shall not be filled for the unexpired term until the next election.*

PROPOSED AMENDMENT TO BYLAWS (Article 2, Section 1): *Five Members shall be elected to the Council by the Members of the Institute to serve for a term of three years. If an elected member of Council becomes President-Elect, the vacancy will be filled with an additional candidate from that election. Other vacancies in the elected Council occurring subsequent to an election shall not be filled for the unexpired term until the next election.*

The second amendment concerns Organizational Membership. Prior to 2006, IMS offered Institutional Membership, which included two print subscriptions to IMS journals, highly discounted off

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Executive Committee

IMS Members' News

Jingchen Liu receives 2013 Tweedie Award


Jingchen Liu

The Institute of Mathematical Statistics has selected Jingchen Liu as the winner of this year's Tweedie New Researcher Award. Dr. Liu received his PhD in 2008 from Harvard University, and is currently an Assistant Professor in the Department of Statistics at Columbia University. The IMS Travel Awards Committee, selected Dr. Liu, *"For his excellence in research contributions in applied probability including rare-event simulation, large deviations analysis of heavy-tailed stochastic processes, and the analysis of extremal behavior of Gaussian random fields and their associated random differential equations."*

The IMS Tweedie New Researcher Award will fund Dr. Liu's travel to present the Tweedie New Researcher Invited Lecture at the IMS New Researchers' Conference, held this year in Montreal, Canada in August, just before the JSM.

William Studden, 1935–2013

William J. Studden, Emeritus Professor of Statistics and Mathematics at Purdue University, passed away on March 19, 2013. Professor Studden joined Purdue University in 1966 after graduating with a PhD degree from Stanford University. He was internationally renowned for his work on optimal designs, moment problems, splines, inequalities, and Tchebycheff systems. Coauthored with Samuel Karlin, his book on Tchebycheff systems with applications in analysis and statistics has influenced the work of generations of statisticians and mathematicians. He was also an avid reader of history and had a lifelong interest in antiques. He was 77.

IMS Elections *continued from cover*

the regular institutional rate. Institutional membership was to be limited to departments only. However, upon investigation we found several libraries were ordering journals through their department to get this rate. In 2006, we had 111 institutional members. At that time, the IMS changed it to Organizational Membership with the structure outlined here: http://imstat.org/membership/organizations.htm. We successfully transferred most of the former institutional members to institutional subscribers and they therefore paid the appropriate subscription rate. However, in the first year we lost over half of the organizational members, and by 2012 we were down to only five. The IMS focuses well on the individual members and the institutional subscribers. However, the management of organizational members currently outweighs any benefit. The proposed amendment to the constitution allows the IMS to have organizational members in the future, as desired, but does not require it.

CURRENT CONSTITUTION (Article III: Membership. Section 1): *The Institute shall have Individual Members, also hereinafter referred to as Members, and Organizational Members.*

PROPOSED AMENDMENT TO CONSTITUTION: (Article III: Membership. Section 1): *The Institute shall have Individual Members, also hereinafter referred to as Members, and the Institute may have Organizational Members.*

The full Constitution and Bylaws can be read online at http://imstat.org/handbook/. Watch your inbox for the call to vote, and read about the candidates at http://imstat.org/elections. Voting closes June 21, 2013.

Medallion Lecture preview

A specialist in probability theory, stochastic processes and partial differential equations, **Jeremy Quastel** has been at the University of Toronto since 1998. He studied at McGill University, then the Courant Institute at New York University where he completed his PhD in 1990 under the direction of S.R.S. Varadhan; he has also worked at the Mathematical Sciences Research Institute in Berkeley, and UC Davis. His research is on the large scale behaviour of interacting particle systems and stochastic partial differential equations. He was a Sloan Fellow 1996–98, a Killam Fellow 2013–15, invited speaker at the International Congress of Mathematicians in Hyderabad 2010, gave the Current Developments in Mathematics 2011 and St. Flour 2012 lectures, and was a plenary speaker at the International Congress of Mathematical Physics in Aalborg 2012. Jeremy's Medallion Lecture will be at JSM Montreal on August 5.

Jeremy Quastel

The Kardar-Parisi-Zhang equation and its universality class

Stochastic partial differential equations are used throughout the sciences to provide more realistic models than partial differential equations, taking into account the natural randomness or uncertainty in the environment. Sometimes the effects can be highly non-trivial, especially in small scale cases, e.g. biological cells, nanotechnology, chemical kinetics, but also large scale phenomena such as climate modelling. Our understanding of stochastic partial differential equations is still in a very primitive stage, and we are just starting to be able to study problems of genuine relevance to applications. A key scientific question for which there is no general recipe is how the input noise is transformed by a non-linear stochastic partial differential equation into fluctuations of the solution.

One of the most important non-linear stochastic partial differential equations is the Kardar-Parisi-Zhang equation (KPZ), introduced in 1986 as a canonical model for random surface growth. In the one dimensional case, it is equivalent to the stochastic Burgers equation, which is a model for randomly forced one-dimensional fluids. These models have been widely used in physics, but their mathematics was very poorly understood. At the physical level, it was discovered that the one-dimensional KPZ equation had highly non-trivial fluctuation behaviour, shared by a large collection of one-dimensional asymmetric, randomly forced systems: stochastic interface growth on a one dimensional substrate, randomly stirred one dimensional fluids, polymer chains directed in one dimension and fluctuating transversally in the other due to a random potential (with applications to domain interfaces in disordered crystals), driven lattice gas models, reaction-diffusion models in two-dimensional random media (including biological models such as bacterial colonies), randomly forced Hamilton-Jacobi equations, etc. These form the conjectural KPZ universality class. A combination of non-rigorous methods (renormalization, mode-coupling, replicas) and mathematical breakthroughs on a few special solvable models led to very precise predictions of universal scaling exponents and exact statistical distributions describing the long time properties. Surprisingly, they are the same as those found in random matrix theory: The Tracy-Widom distributions and their process level generalizations, the Airy processes.

These predictions have been repeatedly confirmed through Monte-Carlo simulation as well as experiments; in particular, recent spectacular experiments on turbulent liquid crystals. However, at the mathematical level the KPZ equation proved difficult, until recently, in a series of unexpected breakthroughs, the equation was shown to be well-posed, and exact distributions were computed for the main scaling invariant initial data. The goal of this talk will be to describe the background and the progress that has been made.

Ethics in Publishing

Former *IMS Bulletin* Editor, and current Co-editor of *JASA*, Xuming He, writes:

In order to disseminate our research results, we are expected to publish. We also publish to establish a track record as scholars. Publications are needed for annual evaluations as well as tenure and promotion for each individual. Publications also play a role in the rankings of programs and institutions. According to the NSF report "Science and Engineering Indicators 2012" (http://www.nsf.gov/statistics/seind12/c0/c0s6.htm), the number of research articles published in a set of international, peer-reviewed journals has grown from about 460,200 in 1988 to an estimated 788,300 in 2009. The trend is probably continuing at an even faster pace today.

When we as authors are under pressure to write and to publish, it is important that we do not forget about the basic principles of research ethics. I am no authority in this area and do not intend to present myself as one. I will however bring to your attention a few examples that I have seen as editor and reviewer, hoping that we can all avoid the temptation of taking an easy route to publications.

Example 1: Simultaneous submissions of multiple manuscripts with substantial overlap.

We all know that simultaneous submission of the same manuscript to more than one journal is prohibited. But papers that develop the same ideas in different problems or applications do get published. It is important that you cite the other papers that use the same ideas and discuss the connections and differences between your current paper and the earlier ones. If you submit two papers around the same time that apply the same idea to two different settings but do not cross reference each other, you might be viewed as dishonest.

Example 2: Fabrication or falsifications?

We all know that fabrication and falsifications are unacceptable in research. But the same applies to various forms of dishonest and selective reporting. If a simulation experiment requires a tuning parameter, and you report only the results that are favorable to you without specifying how your tuning is performed, you could be cheating. It is fine to demonstrate the superior performance of your favorite method for well-specified settings, but make sure you keep all the computer code that is used to produce your results. You should make them available to other researchers too.

Photo: Silvina Devita

Don't get lost in an ethical labyrinth on your path to publication!

Example 3: Plagiarism.

Non-native English speakers (and many others too) may find it especially tempting to use well-written statements or paragraphs from the existing literature in their own papers. This however may lead to plagiarism. Self-plagiarism, that is, repeating your own writing without citation, is harder to detect, but it is not appropriate either. To avoiding plagiarism, you should consider using quotation marks around material taken verbatim from a source or using different words to summarize what you have learned from the literature. Information that you obtained from a private conversation, correspondence, or discussion with third parties should not be used in your paper without permission.

Example 4: Evasion of responsibility.

When asked about a possible error or confusion in a publication, some authors simply point to their coauthors for responsibility. "This part of the proof was provided by my coauthor" or "The computation was carried out by my coauthor" might be honest statements, but they do not relieve you from responsibility. If you are a coauthor, you must approve the paper as a whole, and consequently take responsibility of what you say in the paper. There are cases, however, where you are responsible for the statistical analysis of a paper but the rest of the work falls outside your areas of expertise. In those cases, it helps to state in the paper who are primarily responsible for each part of the paper.

These examples show that we authors have to think carefully about what we publish. The pressure that stems from the "publish or perish" mentality might be there, and the temptations of easier and faster publication confronts many of us. However, we should remind ourselves that ultimately we will be judged not by how many papers we publish, but by what we publish.

Happy publishing!

The XL-Files: *If You Think Statistics is Hard, Try History. . .*

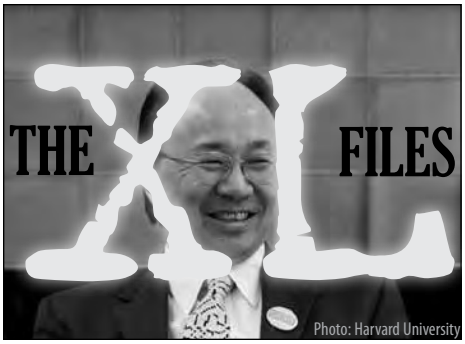

Photo: Harvard University

Contributing Editor Xiao-Li Meng writes:

"Upstairs on the Square" is reputed in some circles to be *the* restaurant for dining and wining around Harvard Square. The probability therefore was not surprisingly small to find Ben Affleck and two statisticians there sitting only a few tables apart. It was September 15, 2009, and *The Town* was in town, or rather in the Square. The director and actor was busy conducting a working lunch, talking attentively to (or directing?) his leading lady.

Alan Agresti was in town as well, as a visiting professor. It was the first opportunity for me to raise a glass to Alan to thank him for teaching for us despite being on permanent sabbatical (Alan's phrase for retirement). Neither of us, however, anticipated at that moment that, just as Ben Affleck's lunch was to make a movie, ours was about to make history.

At some point Alan mentioned the upcoming fiftieth anniversary for Wisconsin Statistics in 2010, and I reflected upon the fiftieth anniversary celebration of my department during 2007. As we lamented the loss of some founding members and their memories, it dawned on us that we ought to do something to reduce the losses. After all, history is data, and data are snapshots of history.

However, although both Alan and I are seasoned statisticians, when it came to conducting a history project, we inevitably fell into the how-hard-can-it-be novice trap. We did discuss how time consuming such a project could be, but I somehow convinced myself—and apparently Alan—that if we asked each department to contribute a chapter, our job would simply be to put them together. How hard could that be?

Any reputable historian would be laughing aloud at such a naive attitude towards documenting history, just as we statisticians would laugh at a historian for thinking that analyzing a historical data set simply means running it through statistical software. But as a Chinese proverb has it, "newborn calves are unafraid of tigers," we pressed on. Or I should say Alan pressed on, for my overestimation of my ability became apparent very soon. With Alan's pursuit and persuasion, all 39 statistics departments from US universities that have (or had) a major history rooted more than 45 years ago agreed to participate: a 100% response rate!

The real success came only after intense work by all 39 sets of authors. Just as collecting data *scientifically* is never easy, summarizing *fairly* more than 45 years of a departmental history in a chapter of 5000–8000 words is a daunting, if not impossible, task. I learned this the hard way when I worked on my chapter. Even just restricted to the six volumes of documents meticulously kept by our founding father, Fred Mosteller, what would be my guiding principles to select the materials that would represent the departmental history in a fair way? Indeed, what kind of *fairness* should I aim to achieve?

Thinking statistically, the notion of *representativeness* arises naturally. But what does this mean in the context of selecting historical events? Clearly there is no meaningful "frame" of historical events to sample from. And which one is more fair? Give every former or current member an equal amount of space, or assign space in proportion to their contributions? And what contributions should be considered, and how to quantify them? Surely research impact must be one of them, but what about pedagogical contributions and departmental citizenship? These latter contributions often helped to save a department from being shut down during those dark ages of statistics. From the perspective of a departmental history, should it be more fair to feature an unsung hero, who helped many students to complete their degrees, more than someone who was busy generating honorary degrees for him/herself?

These were just a few of the many issues that the chapter authors of the volume "*Strength in Numbers: The Rising of Academic Statistics Departments in the U.S.*" (Springer, 2013) had to contemplate. I often tell my students that the hardest aspect of statistics is that there is no single correct answer, but many bad and ugly ones, though as a statistician I am at least guided by a few reasonable principles. In contrast, I find myself adrift when it comes to deciding how to represent history. The substantial variability in the other 38 chapters seems to indicate that I am not alone.

Perhaps "fairness" is simply a wrong premise to start with for history, but it is hard to ignore because this volume will become "data" for future historians, professional or otherwise. Or perhaps the uncoordinated and idiosyncratic choices at the chapter level are in fact helping to ensure the representativeness at the volume level, because a fair history is less likely to be captured by a stylized "history" or "her-story" than by many freestyle "their-stories." Wait! Uncontrolled individual biases are actually good for collective unbiasedness? Am I insightful or insane?

Who cares? Well, perhaps the editors of future volumes? There must be many readers (I hope there are!) around the world who are wondering, "Where is *my* department's history?"

Obituary: Damaraju Raghavarao

1938–2013

Damaraju Raghavarao

Professor Damaraju Raghavarao, the Laura H. Carnell Professor of Statistics in Fox School of Business, Temple University, died suddenly from cardiac arrest brought on by flu on February 6, 2013.

Raghavarao was born on January 5, 1938, the youngest of four children. His future career was foreshadowed at an early age, doing well in elementary and secondary school, especially in mathematics. He completed his high school education in 1951, a BA in Mathematics at Hindu College, Guntur in 1955 and MA in Mathematics from Nagpur University in 1956, where he received the prestigious Khan Bahadur H.M. Malek Gold Medal for highest marks. Raghavarao then continued studying briefly with Professor S.S. Shrikhande at Nagpur but when Shrikhande joined the University of North Carolina in 1958, he moved to Bombay University, completing his PhD under the supervision of Professor M.C. Chakrabarti in 1961. Raghavarao remained at Bombay for the next three years as a Research Fellow, where his interests focused on optimal non-orthogonal designs in the context of weighing designs and Partially Balanced Incomplete Block design association schemes. He then moved to Punjab Agricultural University as Associate Professor, where he had ample opportunity to apply much of the theory he had studied by carrying out field experiments on various crops. This work laid the foundation for the interest he developed in seeing the practical side of statistics, an interest that remained with him for the rest of his life. Raghavarao stayed at Punjab Agricultural University for seven years, where he guided 11 MA and PhD students, and published his landmark book *Constructions and Combinatorial Problems in Design of Experiments*, and wrote 17 research papers.

In 1972, Raghavarao left India, and joined the University of North Carolina, Chapel Hill as a Visiting Professor. He held a summer research assignment at Cornell University in 1973 and spent the academic year 1973–74 at the University of Guelph, Canada. In 1974, he joined the Fox School of Business at Temple University as a full Professor where he served the school with great distinction for the next 39 years.

Raghavarao expanded his areas of research interest beyond his original constructions and combinatorial problems. He branched into sample survey methods, application of block designs in randomized response, group testing experiments and partially balanced crossover designs. He developed a new class of designs useful in marketing, behavioral sciences and inter-cropping experiments. He published eight books, more than 135 research papers and guided the PhD dissertation research of 25 students. Raghavarao served twice as Chair of the Statistics Department, served as Director of the Data Analysis laboratory and organized four conferences on Experimental Designs. For his research contributions, he was appointed the Laura H. Carnell Professor of Statistics in 1989 and awarded the Paul W. Eberman Research award in 1995. He was elected a Fellow of the IMS and a member of the International Statistical Institute in 1975, and a Fellow of the American Statistical Association in 1990. In 1999, his students and fellow academicians held a conference in honor of his 60th birthday. The conference was attended by leading researchers in experimental designs from all over the world, and resulted in a book titled *Recent Advances in Experimental Design and Related Topics*.

During more than half a century of professional productivity, Raghavarao taught and influenced countless students through his undergraduate and graduate courses. He was unusually dedicated to his students, always ready to provide wise encouragement in their moments of academic doubt and insightful counseling during the inevitable brick walls that confront those pursuing a difficult research topic. Always a friend and support to his academic colleagues, always ready to stand in and do whatever it took for his department to meet its teaching and research commitments. But more than his qualities as an exceptional teacher and scholar, Raghavarao was a man of great humanity. No angry word escaped his lips. He was a devoted father to his three children, daughters Venkata Lakshmi and Sharada and son Venkatrayudu. No tribute to Raghavarao can be complete without mentioning his loving wife, Venkata Rathnam, who inspired Raghavarao's academic achievements and was an exceptional mother to their children until her untimely death in 1989.

Raghavarao will be deeply missed, not only for his scholarship and teaching, but also for the qualities that made him a man of such exceptional character and support to his family members, his colleagues and his students. We mourn his passing.

Professors Jagbir Singh and Stan Altan
Temple University

Obituary: Bob Blumenthal

1931–2012

Robert McCallum Blumenthal passed away on November 8, 2012 at the age of 81, after a long illness. Bob, as he was known to one and all, was a mathematician whose main interest was probability theory, especially continuous parameter Markov processes on a topological state space. He received his PhD in 1956 at Cornell under the direction of G. A. Hunt. At the time Hunt was in the process of developing the relationships between Markov processes and potential theory to be published in a monumental work in three installments in 1957 and 1958. This subject was to become one of the main topics of research in probability for the next 20–25 years. The class of processes for which Hunt developed his theory came to be called Hunt processes in later years. The term process will mean a Hunt process in what follows, unless explicitly mentioned otherwise.

Already in his thesis Bob had established two of the basic principles of this topic: the strong Markov property (also established independently and more or less simultaneously by Dynkin and Yushkevich in the Soviet Union) and the quasi-left continuity of the sample paths of the process. In addition, his thesis contained what became known as the Blumenthal zero-one law. After obtaining his degree in 1956, he accepted a position as an Instructor in the Mathematics Department at the University of Washington (such positions were typical for new PhD's in those days). He remained at UW until he retired in 1997, aside from two sabbatical years: in 1961–62 at the Institute for Advanced Study in Princeton, and 1966–67 in Germany.

I also accepted a position in the UW mathematics department beginning in September 1956. Shortly thereafter he and I began a long and fruitful collaboration. Perhaps the most important of our early papers was "Sample Functions of Stochastic Processes with Stationary Independent Increments" which appeared in 1961. At least it was the one that stimulated the most further research.

During the academic year 1961–62 we studied Hunt's fundamental papers in great detail. To the best of my knowledge the only other person to have carefully read these papers at that time was P. A. Meyer in France. After completing the reading of Hunt's papers, we began to work on the following problem: To what extent is a process characterized by its geometric paths? A few years earlier Feller had conjectured that a process should be determined by its "road map" and its "speed" as it travels along its paths. He had proved this for a class of Markov chains where "road map" was interpreted as the distribution of the position upon first exit from a point. Then Itô and McKean in 1956 established the appropriate result for one-dimensional diffusions. In this case the "road map" is given by the intrinsic scale and the "speed" by the speed measure of the diffusion. These concepts had been introduced by Feller in his description of the generator of a one-dimensional diffusion. Itô and McKean only published their results much later in their well-known 1965 book, *Diffusion Processes and Their Sample Paths*. In the meanwhile the results had been obtained independently by the Russian School. Bob and I were very happy when we were able to prove the conjecture for a general Hunt process subject to a minor additional condition. Although it was fairly clear how to attack the problem, there were formidable technical difficulties to overcome. It was Bob's deep probabilistic insight that was the key to our success. In early 1962 we sent our paper to J. L. Doob who was the editor of the *Illinois Journal*. At roughly the same time McKean had proved the result for general diffusions and had sent his paper to Doob also. Doob suggested that we combine our results, which yielded the result for general Hunt processes and our joint paper appeared in the *Illinois Journal* in 1962. In the ensuing years other proofs, simplifications, and extensions of our result have appeared.

Undoubtedly, our best known work was our 1968 book, *Markov Processes and Potential Theory,* which was reprinted by Dover in 2007. This book contained an expanded version of the theory developed by Hunt and later developments of its writing, especially the representation of excessive functions as the potentials of additive functionals. In general, we attempted to prove for standard processes what was previously known for Hunt processes. This extension is true most of the time, but sometimes quite difficult.

Robert (Bob) Blumenthal

Bob continued his research on Markov processes during the 1970s and 80s, in particular on various construction problems and excursion theory. This led to his 1992 book, *Excursions of Markov Processes,* an excellent introduction to excursion theory as it existed at that time.

Bob was an excellent athlete. He captained his college tennis team and won

Continues on **page 9**

Recent papers

Probability Surveys: Volume 9, 2012

Probability Surveys publishes survey articles in theoretical and applied probability. The style of articles may range from reviews of recent research to graduate textbook exposition. Articles may be broad or narrow in scope. The essential requirements are a well specified topic and target audience, together with clear exposition. *Probability Surveys* is sponsored by IMS and the Bernoulli Society.

Access papers at http://www.i-journals.org/ps/

Stochastic Systems: Volume 2, 2012

Focusing on the interface of applied probability and operations research, *Stochastic Systems* is the flagship journal of the INFORMS Applied Probability Society and is published through a cooperative agreement between INFORMS and the IMS. This open-access journal seeks to publish high-quality papers that substantively contribute to the modeling, analysis, and control of stochastic systems. The contribution may lie in the formulation of new mathematical models, in the development of new mathematical methods, or in the innovative application of existing methods. A partial list of applications domains that are germane to this journal include: service operations; logistics, transportation, and communications networks (including the Internet); computer systems; finance and risk management; manufacturing operations and supply chains; and revenue management.

Access papers at http://www.i-journals.org/ssy/

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Issue 2, Volume 2

Obituary: Dayanand Naik

1952–2012


Dayanand Naik

Dayanand N. Naik, who was a Professor of Statistics at Old Dominion University in the Department of Mathematics and Statistics, passed away on Friday, October 26, 2012, after a three-year battle with prostate cancer. He is survived by his wife, Sujatha, and his two sons, Naveen, 16, and Rishi, 10, in Virginia Beach, VA.

Dayanand was born on January 1, 1952 in Hillur, a small village in the state of Karnataka, India, to a family of hard-working farmers who owned a small plot of land. His parents were very particular about the education of their children, and since Dayanand was an exceptional student, they were determined to send him to college. Upon completing his MS in Statistics at Karnataka University, he served as a lecturer at Karnataka College for a year and then moved to the Indian Statistical Institute to work on his PhD. At the suggestion of Prof. S. Rao Jammalamadaka, he transferred to the University of Pittsburgh to obtain his PhD under Prof. C. R. Rao, completing it in 1985. Afterward, he joined Old Dominion University as a faculty member and remained there throughout his academic career.

Dayanand was an active researcher working in the areas of linear models, multivariate analysis, and statistical inference. He comfortably switched back and forth between the theoretical and applied research of these areas. He wrote many influential articles on detection of outliers, random effect models, growth curve models, repeated measures and longitudinal data, familial correlations, and graphical methods—especially those related to correspondence analysis. Many of these articles have been widely referred to in many published textbooks. Two applied textbooks on multivariate analysis, which he coauthored with R. Khattree and were published in 1995 and 2000, are still regarded as important references for applied researchers. In addition, in 2008, he co-edited a book volume titled *Computational Methods for Biomedical Research* with R. Khattree that contains the novel research work useful for biomedical researchers. At Old Dominion University, he had advised more than ten students on their PhD dissertations on a variety of topics.

Dayanand, an IMS member, was a fellow of the American Statistical Association and an elected member of the International Statistical Institute. He was an active member of both organizations, serving on in many committees in various capacities. He was also a very active member of the Virginia Academy of Sciences.

We will miss his outstanding research efforts, his valuable mentorship, and his incredibly caring and kind soul. As we mourn his loss, we are reminded of what Lord Krishna says in the Bhagavad Gita (Chapter 6, Verse 30), which is translated: "One who sees me in everything and everything in me, to him I am never lost, nor is he ever lost to me."

If you would like to make a tax-deductible contribution in memory of Dr. Naik, please contact Ms. Michele Catalano, Development Officer for the College of Sciences at Old Dominion University, at mcatalano@odu.edu or (757) 683-5552.

N. Rao Chaganty,
Old Dominion University,
and Ravi Khattree, Oakland University

If you hear of the passing of an IMS member, please let us know so we can organize an obituary. Email bulletin@imstat.org

Obituary: Bob Blumenthal, 1931–2012
Continued from **page 7**

the Ohio Conference singles title. After moving to Seattle he gave up tennis and became an accomplished mountaineer and skier. He obtained his professional ski instructor certificate and taught skiing weekends at Stevens Pass near Seattle for many years. He was a many faceted, friendly and gracious person with a wonderful sense of humor. He will be missed by who all who knew him. He is survived by his wife of many years, Sarah, and two sons, Joel and Jabe.

Ronald Getoor
Professor (Emeritus), University of California, San Diego

Montreal is the largest city in Quebec and the second largest in Canada, with a metropolitan population of just over 3.6 million people. Montreal is one of two large islands on the St. Lawrence River (the other, Île Jésus, includes Laval and several other communities) and its highest point, Mount Royal, is 232m/761 ft high.

JSM Late-Breaking Session Proposals

Deadline: April 15, 2013

There are still two sessions in the JSM program to be determined. These Late-Breaking Sessions must cover one or more technical, scientific, or policy-related topics that arose in the one-year period prior to JSM 2013. To submit a late-breaking session proposal, please see http://magazine.amstat.org/blog/2013/02/01/call-for-proposals-for-late-breaking-jsm-sessions/

Montreal is a cosmopolitan city. Quebec's language laws impose restrictions on outdoor signs in languages other than French so you will see few signs in English, but in the parts of Montreal where most travellers go, services are available in English as well as French. French is heard throughout the city, but in many neighbourhoods other languages will also be heard. Roughly half the city's residents speak French at home.

Will you need a visa to come to Montreal? Check the list at Citizenship and Immigration Canada's website: www.cic.gc.ca/english/visit/visas.asp

Montreal's Olympic site is 4 miles from downtown in the Hochelaga-Maisonneuve district, and consists of several buildings designed by French architect Roger Taillibert. The Olympic Stadium (above) is ovoid shaped with a distinctive 'ribbed' look, and has the world's tallest inclined tower at 175 m (574 ft) high; it leans at 45 degrees. The complex includes the Biodome, the Insectarium, municipal golf course Le Village, and the Montreal Botanical Garden, one of the largest botanical gardens in the world.

The Biodome (left) should not be confused with the Biosphère (below), a Montreal museum about the St. Lawrence river located inside the geodesic dome that once housed the American pavilion for Expo '67. The Biodome, in contrast, is neither spherical nor a geodesic dome, and was once called the Velodrome, as it housed the 1976 olympic cycling events.

Montreal's Underground City (RÉSO), a set of underground complexes in and around downtown, has over 20 miles (32 km) of tunnels spread over an area of 4.6 square miles (12 km²). The 60 residential and commercial complexes comprise 80% of office space and 35% of the commercial space in downtown Montreal. Services include shopping malls, hotels, banks, offices, museums, universities, seven metro stations, two commuter train stations, a bus terminal and the Bell Centre hockey arena. About half a million people use the underground city every day.

Sources: http://en.wikipedia.org/wiki/Landmarks_of_Montreal; www.tourisme-montreal.org; www.montreal.com;

Two new IMS publications released

IMS Collections 9:

From Probability to Statistics and Back: High-Dimensional Models and Processes — A Festschrift in Honor of Jon A. Wellner

Editors: M. Banerjee, F. Bunea, J. Huang, V. Koltchinskii, M.H. Maathuis

Read free online, or order a print copy ($107.80) at:
http://projecteuclid.org/DPubS?service=UI&version=1.0&verb=Display&page=toc&handle=euclid.imsc/1362751167

For more than thirty years, Jon A. Wellner has made outstanding contributions to several very active and important areas of statistics and probability. His results have been especially influential in semiparametric statistics, estimation and testing problems under shape constraints, empirical processes theory (both classical and abstract), survival analysis, biostatistics, bootstrap, probability in Banach spaces and high-dimensional probability. This Festschrift honors Jon Wellner on the occasion of his 65th birthday. Many of the papers included in this volume were presented at the conference "From Probability to Statistics and Back: High-Dimensional Models and Processes" that took place in Seattle, Washington in 2010. They cover a broad range of topics related, at various levels, to Jon's work.

Jon's contribution to the statistical arena is further underscored by his four highly influential (co-authored) books on empirical processes, semi-parametric models and nonparametric maximum likelihood estimation. The impact of his books on the discipline and the vital role that they played in communicating the power of empirical processes and semiparametric theory to the statistical community as effective tools for studying statistical models can hardly be exaggerated. Indeed, in this regard, he should be seen as one of the visionaries who helped unleash the potency of empirical process theory for solving hard theoretical problems in the statistical arena and which brought about a paradigm shift in the approach to a broad sphere of asymptotics. Jon has also been a prolific mentor with 27 graduated Ph.D. students (and one more being advised) at the time of going to press, many of whom have gone on to successful research careers at distinguished universities. In addition, he has been a mentor and source of inspiration to junior colleagues who were not his students and who, in many cases, are formidable names in the profession today.

NSF-CBMS Regional Conference Series in Probability and Statistics, Volume 9

Nonparametric Bayesian Inference

Peter Müller and Abel Rodriguez

Read free online, or order a print copy ($45.00) at:
http://projecteuclid.org/DPubS?service=UI&version=1.0&verb=Display&page=toc&handle=euclid.cbms/1362163742

These notes arose out of a short course at UC Santa Cruz in summer 2010. Like the course, the notes provide an overview of some popular Bayesian nonparametric (BNP) probability models. The discussion follows a logical development of many commonly used nonparametric Bayesian models as generalizations of the Dirichlet process (DP) in different directions, including Pólya tree (PT) models, species sampling models (SSM), dependent DP (DDP) models and product partition models (PPM). The selection of topics is subjective, simply driven by what the authors are familiar with. As a result, some useful and elegant classes of models such as normalized random measures with random increments (NRMIs) are reviewed only briefly.

We focus on BNP models for random probability measures, keeping for example a discussion of Gaussian process priors to only a brief review in the introductory chapter. Also, we put the emphasis on developing models, rather than a discussion of BNP data analysis for important statistical inference problems. However, some data analysis is introduced by way of short examples and in an introductory chapter. Inference for BNP models often requires computation-intensive implementations. Keeping the focus on models, we decided against a discussion of computational algorithms at much length. The only exception are posterior simulation schemes for Dirichlet process (DP) and DP mixture models. Finally, we do not discuss asymptotic results. These are important and non-trivial. Excellent recent reviews appear in the monograph by Ghosh and Ramamoorthi (2003) and a review paper by Ghoshal (2010).

Calls for nominations, papers

2013 Janet L. Norwood Award for Outstanding Achievement by a Woman in the Statistical Sciences

Call for Nominations

The Section on Statistical Genetics and the Department of Biostatistics in the School of Public Health, University of Alabama at Birmingham (UAB), are pleased to request nominations for the Twelfth Annual Janet L. Norwood Award for Outstanding Achievement by a Woman in the Statistical Sciences. The award will be conferred on September 11, 2013. The award recipient will be invited to deliver a lecture at the UAB award ceremony, and will receive all expenses, the award, and a $5,000 prize.

Eligible individuals are women who have completed their terminal degree, have made extraordinary contributions and have an outstanding record of service to the statistical sciences, with an emphasis on both their own scholarship and on teaching and leadership of the field in general and of women in particular, and who, if selected, are willing to deliver a lecture at the award ceremony.

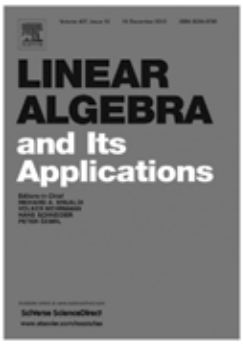
For additional details about the award, please visit our website at http://www.soph.uab.edu/ssg/norwoodaward/abouteward.

To nominate, please send a full curriculum vitae accompanied by a letter of not more than two pages describing the nature of the candidate's contributions. Contributions may be in the area of development and evaluation of statistical methods, teaching of statistics, application of statistics, or any other activity that can arguably be said to have advanced the field of statistical science. Self-nominations are acceptable.

Please send nominations to: *David B. Allison, PhD, Distinguished Professor, Quetelet Endowed Professor of Public Health, Associate Dean for Science; Director, Office of Energetics; Director, Nutrition Obesity Research Center*
e dallison@uab.edu

Deadline for receipt of nominations is June 28, 2013. Electronic submissions of nominations are encouraged. The winner will be announced by Monday July 8, 2013.

Previous recipients of the award are: (2002) **Jane F. Gentleman**, Dir, Div Health Interview Statistics, NCHS & VP ASA; (2003) **Nan M. Laird**, Henry Pickering Walcott Prof, Biostatistics, Harvard; (2004) **Alice S. Whittemore**, Prof & Co-Chair, Health Research & Policy, Stanford; (2005) **Clarice R. Weinberg**, NIEHS Biostatistics Branch Chief; (2006) **Janet Turk Wittes**, Pres, Statistics Collaborative Inc.; (2007) **Marie Davidian**, Distinguished Prof, Statistics at NC State; (2008) **Xihong Lin**, Prof, Biostatistics, Harvard; (2009) **Nancy Geller**, Dir, NHLBI Office of Biostatistics Research; (2010) **L. Adrienne Cupples**, Prof, Biostatistics & Epidemiology, Boston University; (2011) **Lynne Billard**, University Prof, University of Georgia; (2012) **Nancy Flournoy**, Prof, Statistics, University of Missouri.



LINEAR ALGEBRA AND ITS APPLICATIONS

CALL FOR PAPERS

Special Issue on Statistics

We are pleased to announce a special issue on Statistics in *Linear Algebra and Its Applications* (LAA). This commemorates the 30th Anniversary of the very first such special issue edited by Ingram Olkin, C.R. Rao, and George Styan.

Traditionally linear algebra has seen applications in a wide variety of problems in multivariate statistics but the last decade has generated a number of new settings in which such techniques are being applied in statistics. We also see statistical and probabilistic techniques being applied back to linear algebra to obtain exciting breakthroughs. Examples include the sparse and low-rank recovery methods in compressive sensing and matrix completion, the exciting advances in random matrix theory, the newfound popularity of concentration inequalities as a powerful tool in computational linear algebra, among many other recent developments. It is the goal of this special issue to showcase results in some of these new areas as well as progress in more traditional areas at the intersection of linear algebra and statistics.

We welcome submissions concerning all areas of statistics. Submitted papers will be expected to present significant new results, in which linear and multilinear algebraic techniques come to bear in an important way. Papers developing new mathematical tools may also be suitable. Papers must meet the publication standards of *Linear Algebra and Its Applications* and will be refereed in the usual way.

The deadline for submission is **September 30, 2013**, and the special issue is expected to be published in 2014. Papers should be submitted through the electronic submission system of LAA at: **http://ees.elsevier.com/laa** choosing the special issue "Statistics" and the responsible editor-in-chief P. Semrl. Authors will have the opportunity to suggest one of the following special editors to handle their submission:

Mathias Drton, Department of Statistics, University of Washington, e-mail: md5@uw.edu
Lek-Heng Lim, Department of Statistics, University of Chicago, e-mail: lekheng@galton.uchicago.edu
Wei-Biao Wu, Department of Statistics, University of Chicago, e-mail: wbwu@galton.uchicago.edu

Lagakos Distinguished Alumni Award

Call for Nominations

The Department of Biostatistics at the Harvard School of Public Health (HSPH) is seeking nominations for the 2nd Annual Lagakos Distinguished Alumni Award. The award was established in memory of Dr. Stephen Lagakos, a faculty member and former chair of the Department of Biostatistics, who passed away in a tragic automobile accident in 2009.

Steve Lagakos

This award serves to honor Steve's distinguished career, and to recognize Department alumni whose research in statistical theory and application, leadership in biomedical research, and commitment to teaching have had a major impact on the theory and practice of statistical science. The award will be open to all who have an earned degree through the department, regardless of length of time since graduation or type of degree.

The award recipient will be invited to HSPH to deliver a lecture on their career and life beyond the Department. The lecture will be given at 1:30 PM on Thursday, October 31, 2013 at HSPH.

Nominations are currently being solicited and should include contact information for yourself and your candidate, and the candidate's curriculum vita, if available. Please include a letter describing the contributions of the candidate, specifically highlighting the criteria for the award. Supporting letters and materials would be extremely helpful to the committee, but are not required.

The deadline for submission of nominations is May 20, 2013.

Please send nominations to Shaina Andelman **e** sandelma@hsph.harvard.edu

or by mail to:

Shaina Andelman
Harvard School of Public Health
Building 2, 4th Floor
655 Huntington Avenue
Boston, MA 02115

Statistical Analysis and Data Mining, An American Statistical Association Journal

Call for Papers

Special Issue on Observational Healthcare Data

Guest Editors: Patrick Ryan, J&J, and Marc Suchard, UCLA

Due date: July 1, 2013

The editor of *Statistical Analysis and Data Mining* is David Madigan. He writes:

Data sciences is the rapidly evolving field that integrates mathematical and statistical knowledge, software engineering and large-scale data management skills, and domain expertise to tackle difficult problems that typically cannot be solved by any one discipline alone. Some of the most difficult, and arguably most important, problems exist in healthcare. Knowledge about human biology has exponentially advanced in the past two decades with exciting progress in genetics, biophysics, and pharmacology. However, substantial opportunities exist to extend the evidence base about human disease, patient health and effects of medical interventions and translate knowledge into actions that can directly impact clinical care. The emerging availability of 'big data' in healthcare, ranging from prospective research with aggregated genomics and clinical trials to observational data from administrative claims and electronic health records through social media, offer unprecedented opportunities for data scientists to contribute to advancing healthcare through the development, evaluation, and application of novel analytical solutions to explore these data to generate evidence at both the patient and population level. Statistical and computational challenges abound and methodological progress will draw on fields such as data mining, epidemiology, medical informatics, and biostatistics to name but a few.

This special issue of *Statistical Analysis and Data Mining* seeks to capture the current state of the art in healthcare data sciences. We welcome contributions that focus on methodology for healthcare data and original research that demonstrates the application of data sciences to problems in public health.

For more information about the journal, please see http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1932-1872

IMS Elections 2013: Meet the Candidates

President-Elect: one candidate


Erwin Bolthausen

Erwin Bolthausen

Professor, Institute of Mathematics, University of Zurich
http://www.math.uzh.ch/index.php?professur&key1=106

Degrees:
PhD, Mathematics, ETH Zurich, 1973
Habilitation, Statistics, University of Konstanz, 1978

Research interests:
- Probability theory
- Random media

Previous IMS responsibilities/positions:
- *Annals of Statistics*, Assoc. Editor 1987–1989
- *Annals of Probability*, Assoc. Editor 1988–1993
- *Annals of Appl. Prob.*, Assoc. Editor, since 2010
- Member of the Council of the IMS, 2003–2007, 2012–present

Brief statement:
I am very much honoured being proposed as a president-elect of the IMS. The IMS is in a unique position and with a unique responsibility with regards to the standards of scientific publishing and the scientific exchange in our fields. Statistical science and probability theory have found new directions under the influence for instance of computer science, or other branches of mathematics, like algebra. For me, it is important to strengthen these interactions, and being open to new developments. It is also important to maintain strong ties between probability theory and statistics.

IMS Council: twelve candidates (for six places)

Sourav Chatterjee


Sourav Chatterjee

Associate Professor, Department: Mathematics, Courant Institute of Mathematical Sciences, New York University
http://www.cims.nyu.edu/~sourav

Degrees:
PhD in statistics from Stanford University (2005); Master of Statistics from Indian Statistical Institute, Kolkata (2002); Bachelor of Statistics from Indian Statistical Institute, Kolkata (2000).

Research interests:
- Probability theory
- Mathematical statistics

Previous service to the profession:
- Associate editor for the *Annals of Probability*, 2009–present.
- Associate editor for *Probability Theory and Related Fields*, 2011–present.
- Associate editor for *Annales de l'Institut Henri Poincaré (B)*, 2008–present.
- Editor for *Sankhya, Series A*, 2012–present.

Brief statement:
If elected, my priorities will include: 1. Supporting conferences that encourage interactions between probabilists, statisticians and people from other disciplines; 2. Creating more opportunities for young researchers, such as travel grants and other career support.

Richard A. Davis


Richard Davis

Howard Levene Professor of Statistics, Columbia University
www.stat.columbia.edu/~rdavis

Degrees:
1974: BA Mathematics, University of California at San Diego
1979: PhD Mathematics, University of California at San Diego

Research Interests:
- Time series analysis
- Extreme value for stationary sequence and space-time processes
- Spatial statistics with application to environmental data
- Applied probability

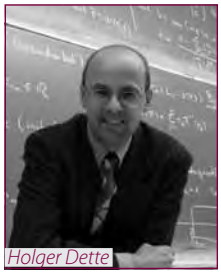
Previous service to the profession:

- Editor-in-Chief, *Bernoulli* (Jan '10–present)
- Associate Editor, *Annals of Applied Probability* (Jan '94–Jan '00)
- Associate Editor, *J. Statistical Planning and Inference* (Jan '95–Jan '01)
- Associate Editor, Proceedings of the American Mathematics Society (Feb '00–Dec '05)
- EURANDOM Steering Committee for Financial Stochastics (Sept '02–Dec '04)
- Associate Editor, *Extremes* (Jan '07–present)
- Associate Editor, *Bernoulli* (Jan '07–Dec '08)
- Editor, *Statistical Science* (Jan '08–Dec '10)
- Associate Editor, *Stochastic Processes and Their Applications* (Jan '93-Jan '96, Mar '08– Jan '10)
- Business and Economics Statistics Section, Chair-elect (2009), Chair (2010)
- Co-organizer (with James Stock and Ruey Tsay) NBER/NSF Workshops in Time Series (2001–present)

Brief statement:

As the preeminent professional society for statistics and probability, IMS produces and sponsors the leading journals and major conferences in the field. With a rapidly changing research landscape, IMS must be both nimble in reacting quickly to changes and prescient in anticipating structural changes from modes of publication to facilitating cross-cutting research agendas. The strength of IMS is its engaged and dedicated membership of whom so many are willing to commit their time and expertise to the betterment of the society and the profession. As an IMS council member, I would hope to follow in this tradition and provide sensible guidance and advice to the society on which it has been built. In particular, I would like to see IMS strengthen its ties to graduate programs at both the MA and PhD levels with the goal of fostering a broader and more scientifically savvy society.

Holger Dette


Holger Dette

Prof. Dr. , Department of Mathematics, Ruhr-Universität Bochum, Germany
http://www.ruhr-uni-bochum.de/mathematik3/en/dette.html

Degrees:

PhD, 1989, Universität Hannover, Germany
Habilitation, 1992; Universität Göttingen, Germany

Research Interests:

Design of experiments; nonparametric regression; time series; statistics in finance; random matrices; matrix measures; birth and death processes; approximation theory and orthogonal polynomials

Previous service to the profession:

- Editor: *Metrika* (2008–2012)
- Editor: *Journal of Statistical Planning and Inference* (2012–present)
- Editor: *Stat* (2012–present)
- Associate Editor: *Annals of Statistics* (1995–2007, 2011–present)
- Associate Editor: *Bernoulli* (2013–present)
- Associate Editor: *International Statistical Review* (2011–present)
- Associate Editor: *Journal of the American Statistical Association* (2011–present)
- Associate Editor: *Journal of the Royal Statistical Society: Series B* (2007–present)
- Associate Editor: *Journal of Statistical Planning and Inference* (1994–2011)
- Associate Editor: *Test* (2000–present)
- Associate Editor: *Statistica Sinica* (2002–2006)
- Associate Editor: *Sankhya* (2004–present)
- Associate Editor: *ESAIM: Probability and Statistics* (2005–present)
- Associate Editor: *Statistics & Probability Letters* (2007–present)
- Associate Editor: *Statistics & Decisions* (2007–present)

Brief statement:

The IMS plays a major role for the development of Probability and Statistics in the future. My list of priorities for the work in the council is:

1) Promotion of young researchers.

2) Improving the collaboration between probability and statistics.

3) Supporting interactions between IMS and other scientific organisation in mathematics – in particular SIAM.

4) Improving the visibility of our field to other disciplines, where massive and new data structures require the development of new methodology and theory .

5) Support of open access electronic publishing.

Rick Durrett


Rick Durrett

James B. Duke Professor of Mathematics, Duke University
www.math.duke.edu/~rtd

Degrees:

Ph.D., Stanford 1976 in Operations Research

Research interests

- Stochastic spatial models
- Population genetics

- Cancer modeling
- Dynamics of and on random graphs

Previous service to the profession:

- 18 years on the editorial boards of *AoP* and *AoAP* including three years as editor of *AoAP*
- World Congress of Probability. 2008: wrote NSF proposal for support of young researchers and supervised the selection process. 2012: organizing committee.
- The nominating committee in 2010–2011 is one of many that I have served on, but I don't put that stuff on my CV so I can't give more detail.

Brief statement:

I think I will do a good job representing the interests of probabilists on the council.

Steffen Lauritzen


Steffen Lauritzen

Professor of Statistics, Department of Statistics, University of Oxford

www.stats.ox.ac.uk/~steffen/

Degrees: cand.stat. 1972 (MSc), lic.stat. 1975 (PhD), dr.scient. (DSc) 1981, University of Copenhagen

Research Interests:

Graphical models: Markov theory; Structure estimation; Local computation; applications in forensic science. Statistical theory.

Previous service to the profession:

- Associate editor of the *Annals of Statistics* 1983–1988.
- Chairman of programme committee for the 16th European Meeting of Statisticians, Marburg, Fed. Rep. Germany, 1984.
- Member of the Research Section Committee of the Royal Statistical Society, 1992–1995.
- Chairman of Steering Committee for Scientific Programme on Highly Structured Stochastic Systems under the European Science Foundation, 1997–2000.
- Editor of *The Scandinavian Journal of Statistics*, 1998–2000.
- *Biometrika* Trustee 2010–

Brief statement:

If elected, my efforts in council would be to support the IMS in continuing an excellent publication policy, high quality scientific meetings, and an emphasis on giving the next generation of statisticians worldwide a natural scientific home in the IMS.

Susan A Murphy


Susan Murphy

HE Robbins Professor of Statistics, Department of Statistics, University of Michigan

http://www.stat.lsa.umich.edu/~samurphy/

Degrees:

B.S. Louisiana State University 1980

Ph.D. University of North Carolina at Chapel Hill 1989

Current Research Interests:

- Sequential decision making: Statistical Reinforcement Learning
- Clinical trial design: Development of Dynamic Treatment Regimes (e.g. sequences of individualized treatments)
- Interdisciplinary research: addictions and behavior change

Previous service to the profession:

- IMS Program Secretary 2000–3
- Editor, *Annals of Statistics* 2007–9
- SAMSI National Advisory Committee 2008–13(Co-Chair 2012–13)
- Associate Editor, *Annals of Statistics*, 1996–2000
- Member of the National Research Council Oversight Committee on the Handling of Missing Data in Clinical Trials 2009–10
- Associate Editor, *Biometrics*, 1997–2000

Brief statement:

It has always been a joy and honor to serve IMS and it would be continue to be an honor to do so if elected. I would have two primary goals in serving on the council. Most importantly I would seek opportunities for IMS to facilitate the rapid movement of ideas/concepts back and forth between emerging applications and theoretical statistics/probability. Secondly I would work to enlarge the role of young statisticians and probabilists as well as statisticians and probabilists living outside of North American and Western Europe in IMS.

Leonid Mytnik


Leonid Mytnik

Professor, Faculty of Industrial Engineering and Management, Technion–Israel Institute of Technology

http://ie.technion.ac.il/Home/Users/leonid0.html

Degrees:

MSc, Technion, 1993; PhD, Technion, 1996

Research Interests:

- Interacting particle systems
- Stochastic partial differential equations
- Measure-valued processes

Previous Service to the Profession

- *Annals of Applied Probability*, Associate Editor, 2003–2009
- *Stochastic Processes and Their Applications*, Associate Editor, 2005–2012
- *Annales de l'Institut Henri Poincaré*, Associate Editor, 2011–
- *Electronic Journal of Probability*, Associate Editor, 2012–

Brief statement:

IMS plays a leading role in the development of Probability and Statistics throughout the world. I believe that one of the most important tasks of IMS is supporting of young researchers. If I am elected, one of my main priorities will be to promote special programs and meetings for the young researchers as well as to encourage and help junior scientists to attend major conferences in the field. I will also strongly support the open access publishing since this is of vital importance for making the further progress in the area.

James Norris


James Norris

Professor, Statistical Laboratory, University of Cambridge

http://www.statslab.cam.ac.uk/~james/

Degrees:

DPhil 1985 University of Oxford
BA 1981 University of Oxford

Research interests:

- Stochastic analysis
- Stochastic modelling
- Particle systems
- Coagulation and aggregation

Previous service to the profession:

- Associate Editor *PTRF* 2000–
- Associate Editor *Potential Analysis* 2000–
- Associate Editor *ESAIM Probability and Statistics* 2001–
- Organiser SPA 2001
- Committee for Conferences on Stochastic Processes 2001– , Chair 2010–12
- IMS Committee on Special Lectures 2010–11
- IMS Nominating Committee 2011–12

Brief statement:

IMS plays an important role through its international perspective, in the high standards and availability of its journals, in recognising excellence through prizes and special lectures, in its sponsorship of meetings and in its support for young researchers. In Council I would act to support the delivery of these benefits to our community, which enhance its standing and effectiveness in the wider world.

Akimichi Takemura


Akimichi Takemura

Professor, Graduate School of Information Science and Technology, University of Tokyo

http://park.itc.u-tokyo.ac.jp/atstat/athp/

Degrees:

Ph.D. (Statistics), September 1982, Department of Statistics, Stanford University.

Research interests:

- Algebraic statistics
- Multivariate analysis
- Distribution theory

Previous service to the profession:

- Executive Director of Japan Statistical Society, September 2004–August 2006
- President of Japan Statistical Society 2011–2012
- Chair of local organizing committee for the second IMS Asia Pacific Rim Meeting, July 2012
- Associate Editor of Journal of Multivariate Analysis, October 2002–present
- Associate Editor of Annals of Institute of Statistical Mathematics, January 2003–present

Brief statement:

Throughout my career I have been promoting cooperation of statistical societies in the East Asia region, in particular among Japan, Korea and China. In 2012 I was the chairman of local organizing committee of the 2nd IMS Asia Pacific Rim Region meeting. The meeting witnessed the fast growth of statistics in this region. I would like to contribute to the further growth of IMS in this region.

Jonathan Taylor


Jonathan Taylor

Associate Professor, Department of Statistics, Stanford University

Degrees:

BSc, McGill University (1997);
PhD, McGill University (2011)

Research interests:

- Geometric methods in statistics
- Smooth stochastic processes
- Optimization methods in statistics (consistency, inference, computation)
- Multiple comparisons problems with dependent data
- Extreme value theory

Previous service to the profession:
Current Associate Editor for *Annals of Statistics*, *Scandinavian Journal of Statistics*; IMS Nominations Committee.
Brief statement:
The growth of data-intensive scientific applications and big data in industry has greatly increased the importance of probability and statistics to other disciplines. I believe the IMS, as the world's leading society committed to both probability and statistics, has an important role to play in this outreach. If elected, I am committed to ensuring that probability and statistics' role in science, society and computing continues to grow. I am also committed to encouraging the continued communication of research between the theoretical and applied constituencies within the IMS.

Jane-Ling Wang


Jane-Ling Wang

Professor, Department of Statistics, University of California, Davis
http://anson.ucdavis.edu/~wang/
Degrees:
Ph.D. Statistics, University of California, Berkeley, 1982
M.A. Mathematics, University of California, Santa Barbara, 1978
B.S. Mathematics, National Taiwan University, 1975
Research Interests:
- Functional data analysis, longitudinal data analysis
- Dimensional reduction methods
- Survival analysis, joint modeling of survival and longitudinal data
- Applications: Aging research, medicine, and neuroscience.

Previous service to the profession:
Associate Editor, *Biometrika,* since 2012; Co-Editor, *Oxford Statistical Science Series*, Oxford University Press, 2010–2015; Associate Editor, *Bernoulli*, since 2010; Member, Committee of COPSS Award, since 2011; Institute of Mathematical Statistics Committee on Nominations, 2010–2011; Program Co-leader, SAMSI program on "Analysis of Object Data", 2010–2011; Chair, Nonparametric Section of the American Statistical Association, 2010; Council Member, Institute of Mathematical Statistics, 2008–2011, 2002–2005; President, International Chinese Statistical Association, 2008; Associate Editor, *Journal of the Royal Statistical Society, Series B*, 2006–2010; Co-Chair Editor, *Statistica Sinica*, 2002–2005; IMS Program Chair, 2003 Joint Statistical Meeting
Brief statement:
With 2013 as the International Year of Statistics, the role and contributions of statistical science is being more broadly recognized and redefined. Statistical science, including probability, is expanding fast, increasingly cutting across boundaries and including data science. The IMS being the nurture ground of Statistical Science is once again well positioned to lead these exciting developments. One challenge facing the statistical community is the training of students and young researchers. What kind of curriculum best prepares the next generation of statistical scientists, and what kind of training/retraining is necessary to prepare researchers for the challenges to come? These are issues that are faced by virtually all educational and research institutions that could be addressed by the Council. The IMS should continue to be the leading platform to promote Statistical Science and to reach out to other communities that participate in the data science developments.

Ofer Zeitouni


Ofer Zeitouni

Professor, Faculty of Mathematics, Weizmann Institute of Science and University of Minnesota
www.wisdom.weizmann.ac.il/~zeitouni
Degrees:
Ph.D., Technion, 1986; M.Sc., Technion, 1983; B.Sc., Technion, 1980
Research interests:
Probability theory, including: Motion in random media; Random matrices; Random walks and branching processes
Previous service to the profession:
- Editor, *Annals of Probability*, 2009–2011
- Associate Editor, *Annals of Probability*, 2003–2008
- Associate Editor, *Annals of Applied Probability*, 2003–2008
- Editor, *Stochastic Processes and their Applications*, 2000–2002
- Associate Editor, *Stochastic Processes and their Applications*, 1996–2001
- Associate Editor, *IEEE Trans. Inf. Theory*, 1991–1993

Brief statement:
The IMS has served the profession by establishing and maintaining excellent publications. The counsel should follow the fast pace of changes in the academic publishing world and make sure the society publications continue to be accessible and of excellent quality. In addition, I see the role of the council as promoting and maintaining interactions between probability and statistics, and between these disciplines and other mathematical and physical sciences. Finally, activities intended for young researchers, especially in the form of special meetings, should be encouraged, while keeping a solid financial foundation for the future.

Voting info: http://imstat.org/elections

Terence's Stuff: Least-but-not-last Squares

In this issue, Terry Speed surveys the history of least squares, which has applications to life, the universe and everything…

Not long ago, I extolled the virtues of Tukey's deconstruction of the Gauss–Markov theorem. Earlier, I conjured up the image of Gauss carrying out the triangulation of Hanover. But I have never focussed on linear least squares, something we all recognize as being at the very heart of statistics. It's time to do so, for I have always viewed the pioneering work of Legendre and Gauss in astronomy and geodesy with a sense of awe and wonderment, and I never lose of interest in new developments. Their ideas have evolved into a huge part of our discipline, to tools which we all use every day. Here I must be brief; the justifications, theory and algorithms each have a vast literature of their own.

These days we introduce ordinary least squares (OLS) with vector and matrix notation as the minimization in β of the sum of squares $|y-X\beta|^2$. However, many of Gauss's problems involved minimizing $|y-\beta|^2$ in β subject to linear constraints $C'\beta=d$. Indeed his constraints were usually non-linear, and so had to be linearized, and his observations usually had to be weighted as well. I've always thought it would be good for our students to meet these extra features quite early on, for example, by adjusting surveying measurements.

I am not aware of significant extensions to Gauss's basic framework arising later in the 19th century, but I'd like to hear from you if you know any. Exceptions are the random effects models, which arose in astronomy.

A century after Gauss, new ideas started to appear. In an elegant, almost Bayesian 1923 paper, E.T. Whittaker gave "a new method of graduation": the replacement of the observed values of a function with smoother ones estimated by penalized least squares, where the smoothness penalty was presented in the form of a prior distribution. Actuaries used these graduated values. I.J. Schoenberg later connected this to the theory of splines, part of which can now be viewed as linear mixed modelling.

In 1934, Whittaker's student A.C. Aitken introduced generalized least squares with a known covariance matrix, presenting his results in the matrix notation we adopt today. In my view, this and his later 1945 paper are the first truly modern works on least squares, and both papers are well worth reading today. For example, Aitken gives an illuminating comparison between least squares estimation with exact constraints on the parameters and penalized least squares where a quadratic penalty partially imposes the constraint.

In the first century of the life of least squares, probabilistic assumptions, if any, were made on the errors. From some time in the 20th century, perhaps earlier, least-squares-like theory was developed with general random variables, leading to minimum mean-square error estimates of relevant quantities (interpolants, predictors, smoothers). Such theory might use normality, or just means, variances and covariances. This step had certainly been made by World War 2, when A. N. Kolmogorov and, independently, N. Wiener developed linear prediction theory for stationary time series. There were several wartime applications of this work. It is a genuine extension of Gauss's least squares, but of a slightly different nature. Of course numbers enter the picture eventually.

In the 1950s the theory of mixed-models was developed, spearheaded by the statistician and animal breeder C.R. Henderson. Generalized least squares for these models and the theory of *best linear unbiased prediction* (BLUPs) were advances with broad applicability. With hindsight, many things are found to be BLUPs.

Arguably the most important advance in least squares in the 20th century was the development of linear state-space models, the body of work associated with R.E. Kalman, R.S. Bucy and others, from around 1960. Application areas include engineering systems, satellite navigation, and Gauss's topic, surveying, but these days using global positioning systems. The path from Gauss to Kalman is not a simple one, as the principal inspiration for Kalman's work was the Wiener-Kolmogorov theory. However, his extension of least-squares to non-stationary time series was an important step, and, just as Gauss showed, it can be justified with or without normal theory.

The 1970s saw several important variants and extensions of OLS appear, including ridge (regularized) regression, non-negative least squares, robust regression and generalized linear models. The last two make use of iteratively (re-)weighted least squares, showing that maximum-likelihood estimation for some important classes of models can be achieved using a form of least squares.

Sample developments in least squares since the 1970s include partial least squares, used widely in chemometrics; the lasso, which is OLS with an L^1 penalty; and the elastic net, OLS with both L^2 and L^1 penalties. I have probably omitted your favourite variant on least squares, but you can write and remind me.

I wonder where least squares will go next?

A nineteenth century German theodolite, of the type used by Gauss to survey Hanover using triangulation and least squares methods.

IMS meetings around the world

IMS Annual Meetings, 2013 & 2014

IMS sponsored meeting

IMS Annual Meeting @ JSM 2013
August 3–8, 2013: Montréal, Canada
w http://amstat.org/meetings/jsm/2013/
JSM Program Chair: Bhramar Mukherjee

Register and book hotels from May 1

The meeting will be held at the Palais de congrès de Montréal, in Montreal, Quebec, Canada. The theme for JSM 2013 is *"Celebrating the International Year of Statistics."* Leading statistical societies have joined forces to declare 2013 the International Year of Statistics (http://statistics2013.org/) in order to promote the importance of our discipline to the broader scientific community, business and government data users, media, policymakers, employers, students, and the general public. As the largest gathering of statisticians in the world, the JSM embodies the spirit of the International Year, showcasing both fundamental contributions of statistical research and applications of statistics. The theme emphasizes the unique opportunity presented by the JSM program to highlight the power and impact of statistics on all aspects of science and society worldwide.

2013 also marks the 300th anniversary of the publication of Jacob Bernoulli's *Ars Conjectandi* in 1713. In recognition of this, IMS and the Bernoulli Society are jointly sponsoring the Ars Conjectandi lecture; the speaker will be David Spiegelhalter.

Late-Breaking Sessions: see the call for proposals on page 10 (deadline April 15).
Registration and housing reservations available from May 1.

IMS sponsored meeting

2014 IMS Annual Meeting
July 7–11, 2014
Sydney, Australia
w http://www.ims-asc2014.com/
The 2014 IMS Annual Meeting in Sydney, Australia, will feature the second Schramm Lecture, by Terry Lyons. Details of the meeting are on the next page. Registration opens soon!.

Joint Statistical Meetings dates, 2013–2018

IMS sponsored meeting
JSM 2013: August 3–8, 2013, Montreal, Canada
w http://amstat.org/meetings/jsm/2013

IMS sponsored meeting
JSM 2014: August 2–7, 2014, Boston, USA
w http://amstat.org/meetings/jsm/

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

2013

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

2014

IMS Annual Meeting: Sydney, Australia, **July 7–11, 2014**

JSM: Boston, MA, **August 2–7, 2014**

2015

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

2016

IMS Annual Meeting: 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

IMS-ASC 2014 meeting: Sydney, Australia

2014 IMS Annual Meeting & Australian Statistical Conference
July 7–11, 2014, Sydney, Australia

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

On behalf of the **Statistical Society of Australia** and the **Institute of Mathematical Statistics**, the organising committee invite you to register your interest in attending the joint Australian Statistical Conference/IMS Annual Meeting, to be held 7–10 July, 2014, in Sydney, Australia.

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 bi-annual 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.

Topics of interest include spatial statistics, Bayesian statistics, computational and asymptotic statistics, sample surveys/methodology, stochastic/statistical modelling, biostatistics, multivariate statistics, probability, mathematical statistics, econometrics and financial statistics

The venue for this meeting is the Australian Technology Park in Sydney.

Local Organising Committee

Richard Gerlach (Co Conference Convenor), University of Sydney; Geoff Lee (Co Conference Convenor), Former President of SSAI; Jennifer Chan, University of Sydney; Boris Choy, University of Sydney; Edward Szoldra, Australian Bureau of Statistics; Celina Quizon, Australian Bureau of Statistics; Eric Beh, University of Newcastle; Paul Sutcliffe, President SA Branch of SSAI; Qiying Wang, University of Sydney

IMS Program Committee

Jianqing Fan (Chair), Princeton; Martin Barlow, University of British Columbia
Andrew Barbour, University of Zurich; Jim Berger, Duke University; Peter Bickel, Berkley Research, University of California; Tony Cai, Wharton University of Pennsylvania; Aurore Delaigle, University of Melbourne; Stephen Fienberg, Carnegie Mellon University; Peter Hall, University of Melbourne; Jiashun Jin, Carnegie Mellon University; Iain Johnstone, Stanford University; Emmanuel Candes, Stanford University; Sara van de Geer, ETH Zurich; Terry Speed, Walter and Eliza Hall, Institute of Medical Research; Scott A. Sisson, University of New South Wales; Rene A Carmona, Princeton University; Zhen-Qing Chen, University of Washington; Steve Evans, Berkeley University; Steve Lalley, University of Chicago; Alain-Sol Sznitman, ETH, Zurich; Ruth Williams, UC San Diego; Ma Zhiming, Institute of Applied Mathematics, AMSS, CAS


Iconic Sydney

Abstract submission: IMS-ASC 2014

You are invited to submit an abstract for consideration for a contributed oral or poster presentation, invited session or keynote presentation. Submissions will open soon.

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 benefiting an event of this size, with approximately 12 Keynote presentations and 6 parallel streams, a large portion of the program will be by invitation. However, a substantial part of the program will be 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.

www.ims-asc2014.com/program/

More IMS meetings around the world

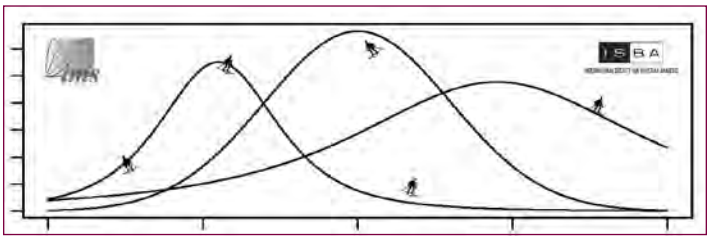
IMS co-sponsored meeting

MCMSki IV UPDATED

January 6–8, 2014

Chamonix Mont-Blanc, France

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



The fourth MCMSki meeting will take place in Chamonix Mont-Blanc, France. It is jointly supported by the IMS and ISBA, as is the first meeting of the newly created BayesComp section of ISBA. Chairing the Scientific Committee are Gersende Fort (Telecom Paristech) and Dawn Woodard (Cornell University).

The conference 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. There will be evening poster sessions open to all.

The three keynote speakers are Andrew Gelman, Chris Holmes, and Michele Parrinello. A round-table on MCMC softwares will also take place during MCMSki IV.

IMS co-sponsored meeting

Third IMS Asia Pacific Rim Meetings NEW

June 30–July 3, 2014

Taipei, Taiwan

w http://www.ims-aprm2014.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 the researchers in Asia and 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).

IMS co-sponsored meeting UPDATED

Fourth International Workshop in Sequential Methodologies (IWSM)

Athens, Georgia, USA

July 17–21, 2013

w http://www.stat.uga.edu/IWSM2013

IMS Reps: T. N. Sriram and Nitis Mukhopadhyay

The Fourth International Workshop in Sequential Methodologies (IWSM) will be held at the Georgia Center for Continuing Education, University of Georgia, Athens, GA. The IWSM is organized every two years. The workshop covers all aspects of sequential methodologies in mathematical statistics and information theory from theoretical developments in optimal stopping, sequential analysis, change detection to different applications in mathematical finance, quality control, clinical trials, signal and image processing, among others.

IMS co-sponsored meeting

Advances in Statistical Methods for the Analysis of Observational and Experimental Data:

A Symposium in Honor of Anastasios (Butch) Tsiatis

July 12–13, 2013

North Carolina State University, NC, USA

w www.stat.ncsu.edu/events/2013_tsiatis_symposium/index.php

IMS Rep on Program Committees: Dennis Boos

The Department of Statistics at North Carolina State University is delighted to sponsor this one-day conference on July 13 (with an opening reception on the evening of July 12), which will provide a forum for discussion of present and future advances in statistical methods for the analysis of both observational and experimental data. Butch Tsiatis has made many contributions to these important areas, and this event will recognize his many accomplishments. The program will a lunchtime poster session (http://www.stat.ncsu.edu/events/2013_tsiatis_symposium/posters.php), and a dinner/dance on the evening of July 13. See the website for program details.

IMS co-sponsored meeting NEW

INFORMS Applied Probability Society Conference 2015

July 5–8, 2015

Istanbul, Turkey

w TBC

IMS sponsored meeting

2013 WNAR/IMS Annual Meeting NEW

June 13–19, 2013

UCLA, Los Angeles, USA

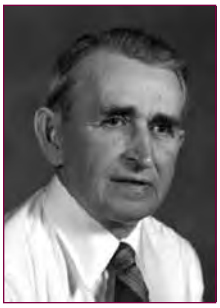
w https://wnar2013.biostat.ucla.edu/

The WNAR/IMS Conference is an annual conference held jointly by the Western North American Region of the International Biometrics Society and the IMS.

IMS co-sponsored meeting

Graybill 2013: Modern Survey Statistics
June 9–12, 2013
Fort Collins, Colorado, USA
w http://www.stat.colostate.edu/graybillconference/

The Department of Statistics at Colorado State University will host Graybill 2013: Modern Survey Statistics in Fort Collins, CO, from June 9–12, 2013. The focus of the conference is on new developments in survey statistics. The program consists of a short course, invited plenary talks and a contributed poster session. It is the aim of the conference to bring together a wide range of researchers, practitioners, and graduate students whose work is related to survey statistics in a wide sense. Keynote speakers are Ray Chambers, Wayne Fuller, Danny Pfeffermann, Jon Rao, Chris Skinner and Steve Thompson.



The conference is co-sponsored by the Department of Statistics at Colorado State University, the ASA Survey Research Methods Section and the IMS. For more information on the program, accommodations and registration, visit the website.

The conference is co-organized by Jay Breidt and Jean Opsomer.

Franklin Arno Graybill [left], who passed away in 2012, was founding Chair of the Department of Statistics at Colorado State University.

IMS co-sponsored meeting

4th IMS-China International Conference on Statistics and Probability
June 30 – July 4, 2013
Chengdu, China
w http://imscn2013.swufe.edu.cn

The IMS-China International Conferences promote communication and collaboration between researchers in China and those from other parts of the world. The previous three conferences in this series were successfully held in Hangzhou, Weihai and Xi'an, China, respectively. We are pleased to announce the 4th IMS-China International Conference on Statistics and Probability 2013. The scientific program of this conference will cover a wide range of topics in probability, statistics and their related areas, focusing on recent developments and the state of the art in a variety of modern research topics and in applications. It will provide an excellent forum for scientific communication and collaboration for researchers. For more information, you may contact the scientific program chair: Runze Li **e** rli@stat.psu.edu. Please check the conference website for updated information.

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.

UPDATED

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

2013 ICSA International Conference
December 20–23, 2013
Hong Kong, China
w TBA

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

IMS co-sponsored meeting

9th Cornell Probability Summer School
July 15–26, 2013
Cornell University, Ithaca, NY, USA
w http://www.math.cornell.edu/Colloquia/colloquia.html

IMS Rep: Laurent Saloff-Coste. The main lecturers are Alexei Borodin, MIT (*Integrable Probability*), Ronald Meester, Vrije Universiteit Amsterdam (*The Combinatorial Approach to the Ising Model*) and Elchanan Mossel, Berkeley (*Probability Models of Information Exchange on Networks*).

The scientific organizers are Laurent Saloff-Coste and Lionel Levine. Please contact conference secretary Anastasia Raymer **e** araymer@math.cornell.edu with any questions regarding the summer school.

More IMS meetings around the world

IMS co-sponsored meeting

Ninth Conference on Bayesian Nonparametrics
June 10–14, 2013
Amsterdam, The Netherlands

w http://www.bnp9.win.tue.nl/
e bnp9info@gmail.com

IMS Representative(s) on Program Committees: Subhashis Ghosal

The 9th Conference on Bayesian Nonparametrics will be held June 10–14, 2013, in Amsterdam, The Netherlands. The Bayesian Nonparametrics (BNP) conference is a biannual international meeting bringing together leading experts and talented young researchers working on applications and theory of nonparametric Bayesian statistics. It is an official section meeting of the Bayesian nonparametrics section of the International Society for Bayesian Analysis (ISBA) and is co-sponsored by the IMS.

The program committee of BNP9 invites submissions for contributed talks and posters from any area of Bayesian nonparametrics and related topics. See the abstract submission page. Deadline for submission: October 15, 2012.

Several speakers have been invited and have accepted to give a talk at BNP9, including four distinguished plenary lectures, from: David Dunson (Duke), Michael Jordan (Berkeley), Gareth Roberts (Warwick), and Judith Rousseau (Paris Dauphine). Other invited speakers so far include: Eduard Belitser (Eindhoven); Emily Fox (Pennsylvania); Sasha Gnedin (London); Peter Green (Bristol); Jim Griffin (Kent); Lancelot James (Hong Kong); Bartek Knapik (VU Amsterdam); Luis Nieto-Barjas (Mexico); Sonia Petrone (Milano); Silke Rolles (TU Munich); Botond Szabo (Eindhoven); and Stephen Walker (Kent).

IMS co-sponsored meeting

36th Conference on Stochastic Processes and their Applications
July 29 – August 2, 2013
University of Colorado, Boulder, USA

w http://math.colorado.edu/spa2013/

The week of SPA is especially busy in Boulder, and we **strongly recommend reserving rooms as early as possible**. Rooms are already being held under "SPA2013" at a number of hotels, details can be found at http://math.colorado.edu/spa2013/?page_id=21.

SPA2013 will feature the inaugural Schramm Lecture by Itai Benjamini; and an IMS Medallion Lecture from Bálint Virág (University of Toronto). There will also be a Lévy Lecture by Gérard Ben Arous (Courant) and a Doob Lecture from Neil O'Connell (Warwick).

Other invited lecturers are Zhen-Qing Chen (Washington); Ron Doney (Manchester); Hugo Duminil-Copin (Genève); Pablo Ferarri (Buenos Aires); József Fritz (Budapest); Tadahisa Funaki (Tokyo); Niels Jacob (Swansea); Vadim Kaimanovich (Ottawa); Jeremy Quastel (Toronto); Kavita Ramanan (Brown); Qi-Man Shao (Hong Kong); Amandine Veber (École Polytechnique); and Ofer Zeitouni (Minnesota & Weizmann).

IMS co-sponsored meeting

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

w TBA

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

IMS co-sponsored meeting

International Conference *Ars Conjectandi* 1713–2013
October 15–16, 2013, Basel, Switzerland

w http://www.statoo.ch/bernoulli13/

2013 marks the 300th anniversary of the publication of Jacob Bernoulli's book, *Ars Conjectandi,* in 1713. A meeting has been organized to celebrate this: the "International Conference *Ars Conjectandi* 1713–2013" will be held October 15–16, 2013, in Basel, Switzerland.

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

IMS co-sponsored meeting

The 20th Annual ASA/IMS Spring Research Conference (SRC) on Statistics in Industry and Technology
June 20–22, 2013
Los Angeles, CA

w http://www.stat.ucla.edu/src2013/
Hongquan Xu **e** hqxu@stat.ucla.edu

The aim of the SRC is to promote cross-disciplinary research in statistical methods in engineering, science and technology. This is to be interpreted broadly to cover a wide range of application areas including biotechnology, information, manufacturing sciences and environment. The conference is intended to stimulate interactions among statisticians, researchers in the application areas, and industrial practitioners. A number of **student scholarships** will be provided to selected graduate students who submit contributed papers.

IMS co-sponsored meeting NEW

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

w TBC

IMS co-sponsored meeting

15th IMS New Researchers Conference,
jointly sponsored by the IMS and the SSC
August 1–3, 2013
Centre de recherches mathématiques, Montréal, Québec, Canada

w http://www.math.mcgill.ca/nrc2013/

The 15th IMS New Researchers Conference is an annual meeting organized under the auspices of the Institute of Mathematical Statistics, and jointly sponsored this year by the Statistical Society of Canada. It will be held just prior to the 2013 Joint Statistical Meetings in Montréal.

The purpose of the conference is to promote interaction and networking among new researchers in probability and statistics. The participants will have the opportunity to present their research via a short expository talk and a poster, in addition to mingling throughout the day. The contributed talks will be complemented by longer talks by four plenary speakers: Aurore Delaigle (University of Melbourne), Stephen E. Fienberg (Carnegie Mellon University), Jeffrey Rosenthal (University of Toronto) and Terry Speed (University of California at Berkeley), as well as the IMS President Hans Rudolf Künsch (ETH Zürich), and the winner of the 2013 Tweedie Award. Panels on teaching, mentoring of graduate students, publishing and funding will take place during the last day of the conference.

Any young researcher who has received a PhD in or after 2008, or expects to defend his or her thesis by the end of 2013, is eligible to attend. Due to limited space, participation is *by invitation only*. To apply, please submit a letter of interest, curriculum vitae, as well as a title and an abstract of your presentation, via the website at http://www.math.mcgill.ca/nrc2013/

Deadline for receipt of applications is February 1, 2013. Higher priority will be given to first-time applicants. Women and minorities are encouraged to apply. Contingent on the availability of funds, financial support for travel and accommodation may be provided. However, participants are strongly encouraged to seek partial funding from other sources.

IMS co-sponsored meeting

Australian New Zealand Applied Probability Workshop
July 8–11, 2013
Brisbane, Australia

w http://www.smp.uq.edu.au/people/YoniNazarathy/AUSTNZworkshop/2013/main.html

IMS Rep: Ilze Ziedins. The scope includes stochastic financial models, queueing theory, actuarial science, stochastic biological models, Monte-Carlo methods, inference for stochastic models, general applied probability and related fields and applications.

IMS co-sponsored meeting

2013 IMS Workshop on Finance, Probability and Statistics
June 19–21, 2013
National University of Singapore (NUS), Singapore

w http://cqf.nus.edu.sg/IMSworkshop-FPS2013

IMS Representative on Program Committees: Tze-Leung Lai

The 2013 IMS Workshop on Finance: Probability and Statistics (FPS) will be held at the National University of Singapore (NUS) on June 19-21, 2013.

This is the third IMS FPS Workshop; the previous two were held in 2011 and 2012 at Columbia University and the University of California at Berkeley, respectively. The focus of the workshop is on the use of probabilistic and statistical analysis and models for problems arising in finance. By bringing together both leading experts and junior researchers, the workshop will highlight important contributions made through the use of statistics and probability, and identify emerging issues where statistics and probability promise to play an important role in the future.

The plenary speakers include F. Delbaen (ETH), J.C. Duan (NUS), P. Forsyth (U. Waterloo), X. Guo (UC Berkeley), A. Novikov (UTS), S. Peng (Shandong U.), Philip Protter (Columbia U.), H. Xing (SBU). In addition, there are invited sessions and contributed sessions.

Registration is open. Participants who are interested in giving talks should send emails to ims-fps2013@nus.edu.sg.

This workshop is part of the program on Nonlinear Expectations, Stochastic Calculus under Knightian Uncertainty, and Related Topics, which runs from June 3 to July 12, 2013, and is jointly organized by the Institute for Mathematical Sciences and the newly established Centre for Quantitative Finance at the National University of Singapore, see http://www2.ims.nus.edu.sg/Programs/013wnlinear/index.php.

IMS co-sponsored meeting

Approximate Bayesian Computation in Rome
May 30–31, 2013, Rome, Italy

w https://sites.google.com/site/approxbayescompinrome/

IMS Reps: Brunero Liseo and Christian P. Robert

Speakers: Gerard Biau (Université Pierre et Marie Curie/Paris VI, France); Nicolas Chopin (Ensae, Paris , France); Richard Everitt (Oxford, UK); Sarah Filippi, (Imperial College, London UK); Anthony Lee (Warwick, UK); Gael Martin (Monash, Australia); Kerrie Mengersen (QUT, Brisbane, Australia); Dennis Prangle (Lancaster University, UK); Judith Rousseau (Ensae, Paris, France); Daniel Wegmann (EPF Lausanne, Switzerland). Topics include: ABC for model selection; Computational advances in ABC; Theoretical justifications of ABC; ABC for real-world problems.

Other meetings around the world

Third International Workshop on Climate Informatics
September 26–27, 2013
Boulder, CO, USA

w https://www2.image.ucar.edu/event/ci2013

Contact Emilie Dassie **e** climate.informatics.workshop@gmail.com

Climate informatics broadly refers to any research combining climate science with approaches from statistics, machine learning and data mining. The Climate Informatics workshop series, now in its third year, seeks to bring together researchers from all of these areas. We aim to stimulate the discussion of new ideas, foster new collaborations, grow the climate informatics community, and thus accelerate discovery across disciplinary boundaries. For more information, please contact us at climate.informatics.workshop@gmail.com.

International Conference: Role of Statistics in the Advancement of Science and Technology
December 16–18, 2013
Pune, Maharashtra, India

w http://stats.unipune.ac.in/Conf13.html

The Department of Statistics at the University of Pune is organizing a "Diamond Jubilee Year & International Year of Statistics Conference" to commemorate 60 years of establishment. A meeting of the alumni of the Department of Statistics will also be held on December 15, 2013. The aim of the conference is to explore the role of statistics in the advancement of science and technology.

Mini Conference on Probability Theory and its Application
June 17–20, 2013
Athens, Greece

w http://www.atiner.gr/probability.htm

Third Call for Papers and Participation

The Mathematics & Statistics Research Unit of the Athens Institute for Education and Research (ATINER), will hold a Mini Conference on Probability Theory and its Application, 17–20 June 2013, in Athens. The registration fee is €300 (euro), covering access to all sessions, two lunches, coffee breaks and conference material. Special arrangements will be made with a local luxury hotel for a limited number of rooms at a special conference rate. In addition, a number of special events will be organized: A Greek night of entertainment with dinner, a special one-day cruise in the Greek islands, an archaeological tour of Athens and a one-day visit to Delphi. Please see the website for information on registration deadlines and paper submission requirements. If you want to participate without presenting a paper, i.e. chair a session, evaluate papers to be included in the conference proceedings or books, contribute to the editing of a book, or any other contribution, please send an email to Dr. Gregory T. Papanikos (gtp@atiner.gr), President, ATINER.

6th Chaotic Modeling and Simulation International Conference and Special Workshop
June 11–14, 2013
Yeditepe University, Istanbul, Turkey

w http://www.cmsim.org

You are kindly invited to participate and submit your Abstract or Paper to the forthcoming Nonlinear Analysis Conference titled 6th Chaotic Modeling and Simulation International Conference (CHAOS2013). If you already have submitted your contribution ignore this message. However, you can visit the *Journal of Chaotic Modeling and Simulation* at http://www.cmsim.eu. To give a presentation (oral or poster) only an abstract accepted is mandatory. You can also submit abstract or paper to the Special Workshop on *Chaos, multivalued chaos, fractals and multivalued fractals—retrospectives and perspectives:* http://www.cmsim.org/workshopchaosfractals.html

The general topics and the special sessions proposed for the Conference include but are not limited to: Chaos and Nonlinear Dynamics, Stochastic Chaos, Chemical Chaos, Data Analysis and Chaos, Hydrodynamics, Turbulence and Plasmas, Optics and Chaos, Chaotic Oscillations and Circuits, Chaos in Climate Dynamics, Geophysical Flows, Biology and Chaos, Neurophysiology and Chaos, Hamiltonian Systems, Chaos in Astronomy and Astrophysics, Chaos and Solitons, Micro- and Nano- Electro-Mechanical Systems, Neural Networks and Chaos, Ecology and Economy.

For more information and Abstract/Paper submission and Special Session Proposals please visit the conference website above or send an email to the Conference Secretariat at: Conf@cmsim.org

The 59th World Statistics Congress (WSC)
August 25–30, 2013
Hong Kong, China

w http://www.isi2013.hk/en/index.php

The 59th World Statistics Congress (WSC) of the International Statistical Institute (ISI) will be held in Hong Kong during 25–30 August 2013. The 59th WSC provides a platform for the international statistical community to share and present the latest knowledge and innovation in statistics. The scientific programme encompasses a wide range of topics facilitating professional exchanges and sharing amongst experts and practitioners in various statistical spheres. Featuring the unique theme "Youth", a series of sessions will be organised on the "Theme Day" of the 59th WSC to address, from various statistical perspectives, topics surrounding the "Youth". Registration for the 59th WSC is now open: see the website for details.

y-BIS 2013, Joint Meeting of Young Business and Industrial Statisticians
September 19–21, 2013
Istanbul, Turkey

w http://ybis13.msgsu.edu.tr/

This conference will be a satellite meeting of ENBIS-13, and has the purpose of bringing together young statisticians and professionals working in Academia and in Industry. The y-BIS 2013 will cover all the research areas of Business and Industrial Statistics.

Stochastic Analysis and Applications - LSAA2013
May 22–24, 2013
Växjö, Sweden

w http://lnu.se/institutioner/institutionen-for-datavetenskap-fysik-och-matematik/konferenser/lsaa---stochastic-analysis-and-applications/lsaa2013

Contact Astrid Hilbert **e** astrid.hilbert@lnu.se

This three-day workshop deals with analytical and numerical results of stochastic models. It addresses two topics of intensive and growing research activities:

Systemic risk and risk management with many important applications in financial mathematics; and

Time-Series Econometrics: in 2003, Granger and Engle received the Nobel Prize in Economics for their research in Time-Series Econometrics.

11th International Conference on Ordered Statistical Data
June 2–6, 2014
Będlewo, Poland

w http://bcc.impan.pl/14OrderStat/

Contact Tomasz Rychlik **e** trychlik@impan.pl

Continuing the series of conferences in Mysore (2000), Warsaw (2002-04), Izmir (2005), Mashad (2006), Amman (2007), Aachen (2008), Zagazig (2010), Murcia (2012), the Institute of Mathematics, Polish Academy of Sciences and Nicolaus Copernicus University will host the 11th International Conference on Ordered Statistical Data. The conference will bring forth recent advances in the theory of ordered statistical data, including order statistics, records, censoring schemes and their applications in reliability, statistics and lifetime analysis.

32nd Leeds Annual Statistical Research (LASR) Workshop
July 2–4, 2013
Leeds, United Kingdom

w http://www1.maths.leeds.ac.uk/statistics/workshop/lasr2013/

The theme for this year's LASR Workshop is "Statistical Models and Methods for Non-Euclidean Data with Current Scientific Applications", and will focus on non-standard statistical models motivated by novel applications.

International Conference & Workshop on Fractals and Wavelets
November 9–16, 2013
Cochin, Kerala, India

w www.icfwrajagiri.in

Contact Vinod Kumar **e** vinod_kumar@rajagiritech.ac.in

Objective: To inspire and motivate researchers and students working in the areas of Fractals and Wavelets. Focal Themes: Fractals Self Similarity Iterated Function Systems Complex Dynamics Wavelets Frames Filter banks Applications of Fractals and Wavelets - Signal processing, Image processing etc

More meetings around the world

New England Symposium on Statistics in Sports
Saturday, September 21, 2013 (*please note date change*)
Harvard University Science Center, Cambridge, Massachusetts

w http://www.nessis.org/

Conference co-chairs: Mark Glickman and Scott Evans. The 2013 New England Symposium on Statistics in Sports will be a meeting of statisticians and quantitative analysts connected with sports teams, sports media, and universities to discuss common problems of interest in statistical modeling and analysis of sports data. The symposium format will be a mixture of invited talks, a poster session, and a panel discussion. Students in particular are encouraged to submit abstracts; a prize will be awarded to the best student poster as decided by a panel of judges. Abstract submission is now open, deadline June 15.

12th Iranian Statistical Conference
August 25–27, 2014
Kermanshah, Iran

w http://isc12.razi.ac.ir/index.php?slc_lang=en&sid=1

Contact Abdollah Jalilian **e** jalilian@razi.ac.ir

Scheduled every two years, the conference is a major Iranian event for statistics and probability, covering all their branches, including theoretical, methodological, applied and computational statistics and probability, and stochastic processes.

2013 Mid-Atlantic Genetic Epidemiology and Statistics (MAGES) Conference
May 17, 2013
Philadelphia, PA, USA

w http://www.med.upenn.edu/magesconference/

Contact Marcella Devoto **e** devoto@chop.edu

The Center for Genetics and Complex Traits (CGACT) of the University of Pennsylvania will host a one-day conference on Genetic Epidemiology and Statistics: Methods and Applications in the NGS Age, on May 17, 2013 at the Sheraton Philadelphia University City Hotel. The 2013 MAGES Conference is sponsored by the Center for Clinical Epidemiology and Biostatistics (CCEB) of the University of Pennsylvania. Registration is free but is mandatory and limited to 150 participants.

Ordered Data Analysis, Models and Health Research Methods: An International Conference in Honor of H.N. Nagaraja for His 60th Birthday
March 7–9, 2014
Dallas, Texas, USA

w http://faculty.smu.edu/ngh/hnnconf.html

Contact Chaitra Nagaraja **e** hnnconf@gmail.com

The conference will feature research areas inspired by the substantial contributions of Prof. H.N. Nagaraja, Division of Biostatistics, The Ohio State University. Topics include order statistics, stochastic modeling, distribution theory, characterizations, asymptotics, and statistical methods in the health sciences. The objective of this conference is to bring together researchers to discuss recent developments and explore future directions on these topics.

International Statistical Ecology Conference
July 1–4, 2014, Montpellier, France

w http://isec2014.sciencesconf.org/

The conference will present & discuss issues of interest to ecological statisticians & biologists. We will hold sessions focused upon mark-recapture methods, distance sampling methods, other abundance estimation techniques, monitoring of biodiversity, survey design & analysis for estimating population trends, modelling of spatial trends in animal density, integrated population modelling, stochastic population dynamics modelling, stochastic multi-species modelling, individual-based model fitting, & stochastic modelling of animal movement.

We have an extraordinary group of plenary speakers: Jean-Dominique Lebreton (France), Nicholas Gotelli (USA), Ben Bolker (Canada), Simon Wood (UK), Marti Anderson (New Zealand), Chris Wikle (USA), Mark Beaumont (UK), Perry de Valpine (USA). There will also be pre-conference workshops within the area of ecological statistics taking place 28 June to 1 July. The submission of abstracts for contributed talks and poster presentations will be open in September 2013.

8th International Workshop on Statistical Seismology (Statsei8)
August 11–16, 2013
Beijing, China

w http://geophy.pku.edu.cn/statsei8/

The purpose of this workshop is to provide statisticians and seismologists with an opportunity for discussing problems related to statistical analysis of earthquake occurrence and forecasting, as well as to defining future research directions. Topics explored have included the statistical behavior of earthquake occurrence and patterns, earthquake triggering, earthquake physics, dynamic earthquake hazard estimation, time-dependent earthquake forecasting, and forecast evaluations.

Measurement, Design, and Analysis Methods for Health Outcomes Research
August 19–21, 2013
Boston, MA, USA

w https://ecpe.sph.harvard.edu/Outcomes-Research

This program provides participants with an overview of several topics in the field of health outcomes research, equipping newcomers with knowledge of the language and concepts of both public health research and statistical methods. Taught in an interactive classroom setting, this program is geared toward introductory to intermediate outcomes research professionals.

Simons Public Lecture "The Public Health Impact of Air Pollution and Climate Change"
April 24, 2013
SAMSI, Chapel Hill, NC, USA

w http://www.samsi.info/simons2013

Contact Jamie Nunnelly **e** nunnelly@niss.org

The Math of Planet Earth 2013 (MPE2013) Simons Public Lecture Series presents Dr. Francesca Dominici, Professor of Biostatistics in the Harvard School of Public Health and Associate Dean of Information Technology as she presents "The Public Health Impact of Air Pollution and Climate Change" on April 24 at 7 p.m. at the UNC Friday Center in Chapel Hill. Hosted by the Statistical and Applied Mathematical Sciences Institute (SAMSI).

EUROFUSE2013 on Imprecision and Uncertainty in Preference Modeling and Decision Making
December 2–4, 2013
Oviedo, Spain

w http://eurofuse2013.uniovi.es/

Contact Enrique Miranda **e** eurofuse2013@uniovi.es

The goal of this workshop is to bring together researchers and practitioners developing and applying fuzzy techniques in preference modeling and decision making. The workshop is intended to establish the new trends in the field and to encourage cooperation among participants. The program schedule will consist of three working days with a half day of social activities. Each day will comprise a talk given by an invited speaker and some special sessions and regular contributions. No parallel sessions will be scheduled. All participants are invited to submit a contribution in order to be reviewed by the committees. A selected number of papers will be expanded and revised for possible inclusion in a Special Issue of the international journal *Fuzzy Sets and Systems*. The workshop will concentrate on, but not be limited to, the following application areas:

- Preference representation and modeling;
- Properties and semantics of preferences;
- Decision Making;
- Imprecise Probabilities;
- Aggregation Operators.

Submission of special session proposals: April 2, 2013
Deadline for the submission of extended abstracts: June 3, 2013
Notification of acceptance: July 18, 2013
Deadline for the submission of camera-ready copies: October 3, 2013

The 2nd Workshop on Biostatistics and Bioinformatics
May 10–12, 2013
Atlanta, GA, USA

w http://www2.gsu.edu/~matyiz/2013workshop/

Contact Yichuan Zhao **e** yichuan@gsu.edu

Biostatistics and Bioinformatics have been playing key and important roles in statistics and other scientific research fields. The second workshop will provide an opportunity for faculty and graduate students of Georgia State University to talk with the speakers about new challenging problems, and it will lead to successful collaborations among universities. The keynote speaker is Professor Runze Li from Penn State University. There will be invited talks by distinguished researchers,and a poster session by young researchers and graduate students.

Employment Opportunities around the world

Canada: Calgary, AB
University of Calgary, Department of Mathematics & Statistics
Assistant Professor in Biostatistics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=12328209

United Kingdom: London
University College London
Lecturer in Statistics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=12722682

United States: Riverside, CA
University of California, Riverside
Assistant/Associate Professor in Statistics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=12656752

United States: Stanford, CA
Stanford, Departments of Biostatistics and Statistics
Post Doc
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=12780501

United States: Grinnell, IA
Grinnell College
Assistant Professor, Mathematics and Statistics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=12375922

United States: Brunswick, ME
The Department of Mathematics at Bowdoin College
Tenure Track Assistant Professor of Mathematics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=11391434

United States: St. Louis, MO
Monsanto
Senior Biometrician/Analytic Scientist
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=12648468

United States: Rochester, MN
University of Minnesota Rochester
Quantitative Faculty
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=11012872

United States: Cleveland, OH
Case Western Reserve University, Department of Mathematics
Tenure Track Faculty
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=12170883

United States: College Station, TX
Texas A&M University
Head, Department of Statistics
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=12602532

United States: Seattle, WA
Fred Hutchinson Cancer Research Center
Staff Scientist (ML 25101)
http://jobs.imstat.org/c/job.cfm?site_id=1847&jb=12252835

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

April 2013

IMS April 5: University of California, San Diego. **Probability and Statistics Day at UCSD w** http://www.math.ucsd.edu/ProbStatsDay/

April 13–14: Ahmedabad, India. **3rd IIMA International Conference on Advanced Data Analysis, Business Analytics and Intelligence w** www.iimahd.ernet.in/icadabai2013/

April 18–19: Kansas City, Missouri. **Innovations in Design, Analysis, and Dissemination: Frontiers in Biostatistical Methods w** http://community.amstat.org/KWMChapter/AnnualSymposium/

April 22–25: Tel Aviv, Israel. **7th Meeting of the Eastern Mediterranean Region International Biometric Society w** https://event.pwizard.com/ims/index.py?

April 23–27: Moscow, Russia. **XXXI International Seminar on Stability Problems for Stochastic Models w** http://www.ipiran.ru/conference/stabil2013/

NEW April 24: SAMSI, Chapel Hill, NC, USA. Simons Public Lecture "The Public Health Impact of Air Pollution and Climate Change" **w** http://www.samsi.info/simons2013

April 27: Storrs, CT, USA. **27th New England Statistics Symposium w** http://www.stat.uconn.edu/ness13/

May 2013

NEW May 10–12: Atlanta, GA, USA. 2nd Workshop on Biostatistics and Bioinformatics **w** http://www2.gsu.edu/~matyiz/2013workshop/

May 12–17: Ascona, Switzerland. **Workshop on Statistical Genomics and Data Integration for Personalized Medicine w** http://www.cbg.ethz.ch/news/ascona2013

May 15–17: Clane, Co Kildare, Ireland. **Conference on Applied Statistics in Ireland (CASI) 2013 w** www.casi.ie

NEW May 17: Philadelphia, PA, USA. 2013 Mid-Atlantic Genetic Epidemiology and Statistics (MAGES) Conference **w** http://www.med.upenn.edu/magesconference/

May 17–18: Chicago, IL, USA. **Fifth R/Finance Conference: Applied Finance using R w** http://www.rinfinance.com

May 21–25: Rimini, Italy. **7th International Workshop on Simulation w** http://www2.stat.unibo.it/iws/

NEW May 22–24: Växjö, Sweden. Stochastic Analysis and Applications - LSAA2013 **w** http://lnu.se/institutioner/institutionen-for-datavetenskap-fysik-och-matematik/konferenser/lsaa---stochastic-analysis-and-applications/lsaa2013

May 26–29: University of Alberta, Edmonton, Canada. **41st Annual Meeting of the Statistical Society of Canada w** http://www.ssc.ca/en/meetings/2013

May 27–31: Aalborg, Denmark. **Summer School on Topics in Space-Time Modeling and Inference w** http://csgb.dk/activities/2013/space-timemodeling/

June 2013

June 2–5: Montgomery Bell State Park, near Nashville, TN. **49th SRCOS Summer Research Conference w** http://louisville.edu/sphis/bb/srcos-2013

June 4–14: SAMSI, Research Triangle Park, NC. **SAMSI Neuroimaging Data Analysis Summer Program w** www.samsi.info

June 5–7: Rome, Italy. **Probabilistic and Statistical Techniques for Cosmological Applications w** http://www.mat.uniroma2.it/~marinucc/Workshop/Home.html

June 5–7: Paris, France. **WIPFOR13: Modeling and Stochastic Learning for Forecasting in High Dimension w** http://conferences-osiris.org/wipfor

June 6–8: Milano, Italy. **8th Bayesian Inference in Stochastic Processes w** www.mi.imati.cnr.it/conferences/BISP8/

June 6–9: Toruń, Poland. **German-Polish conference on Probability Theory and Mathematical Statistics w** http://www.gpps.umk.pl/

IMS June 10–12: Fort Collins, CO. **Graybill 2013 Conference on Survey Statistics w** www.stat.colostate.edu/graybillconference/

June 10–12: Stockholm, Sweden. **4th Nordic-Baltic Biometric Conference (NBBC13) w** http://nbbc13.org/

IMS June 10–14: Amsterdam, The Netherlands. **9th Conference on Bayesian Nonparametrics w** http://www.bnp9.win.tue.nl/

June 10–14: Marseille, France. **Branching diffusions and Gaussian free fields in physics, probability and number theory w** http://www.jean-morlet-2013.org/conference---general-informations.html

International Calendar *continued*

June 2013 *continued*

NEW June 11–14: Yeditepe University, Istanbul, Turkey. 6th Chaotic Modeling and Simulation International Conference and Special Workshop **w** http://www.cmsim.org

June 11–14: Stockholm, Sweden. **International Cramér Symposium on Insurance Mathematics w** www2.math.su.se/icsim

NEW ims June 13–19: UCLA, Los Angeles, USA. 2013 **WNAR/IMS Annual Meeting w** https://wnar2013.biostat.ucla.edu/

NEW June 17–20: Athens, Greece. Mini Conference on Probability Theory and its Application **w** http://www.atiner.gr/probability.htm

June 17–20: Athens, Greece. **7th Annual International Conference on Mathematics Education and Statistics Education w** http://www.atiner.gr/edumatsta.htm

June 17–28: Princeton University, NJ, USA. **Summer School in Financial Mathematics w** http://orfe.princeton.edu/rtg/fmsummer/

ims June 19–21: NUS, Singapore. **2013 IMS Workshop on Finance, Probability and Statistics w** http://cqf.nus.edu.sg/IMSworkshop-FPS2013

ims June 20–22: Los Angeles, CA. **20th Annual ASA/IMS Spring Research Conference (SRC) on Statistics in Industry and Technology w** http://www.stat.ucla.edu/src2013/

June 23–26: Seoul, Korea. **33rd International Symposium on Forecasting w** http://forecasters.org/isf/

June 25–28: Barcelona, Spain. **15th Applied Stochastic Models and Data Analysis International Conference (ASMDA 2013) w** http://www.asmda.es

ims June 30 – July 4: Chengdu, China. **4th IMS-China International Conference on Statistics and Probability.** Runze Li **e** rli@stat.psu.edu **w** http://imscn2013.swufe.edu.cn

July 2013

NEW July 2–4: Leeds, UK. 32nd Leeds Annual Statistical Research (LASR) Workshop **w** http://www1.maths.leeds.ac.uk/statistics/workshop/lasr2013/

July 6–8: Kalamata, Greece. **Greek Stochastics ε (epsilon) w** http://www.stochastics.gr/meetings/epsilon/

July 8–9: Rennes, France. **Model Selection and Nonparametric and Dependence Modeling w** http://atms.ensai.fr/

July 8–10: Leuven, Belgium. **Advances in Regularization, Optimization, Kernel methods and Support vector machines: theory and applications w** http://www.esat.kuleuven.be/sista/ROKS2013

ims July 8–11: Brisbane, Australia. **Australian New Zealand Applied Probability Workshop w** http://www.smp.uq.edu.au/people/YoniNazarathy/AUSTNZworkshop/2013/main.html

July 8–12: Palermo, Italy. **28th IWSM (International Workshop on Statistical Modelling) w** http://iwsm2013.unipa.it/

July 8–12: ShangHai, China. **2013 Extreme Value Analysis conference w** http://eva.fudan.edu.cn

ims July 12–13: North Carolina State University, NC, USA. **Advances in Statistical Methods for the Analysis of Observational and Experimental Data: A Symposium in Honor of Anastasios (Butch) Tsiatis w** www.stat.ncsu.edu/events/2013_tsiatis_symposium/index.php

July 15–19: Wroclaw, Poland. **7th International Conference on Lévy Processes: Theory and Applications w** http://bcc.impan.pl/13Levy/

ims July 15–26: Cornell University, Ithaca, NY. **9th Cornell Probability Summer School w** http://www.math.cornell.edu/Colloquia/colloquia.html

NEW ims July 18–21: Athens, Georgia, USA. **Fourth International Workshop in Sequential Methodologies (IWSM) w** http://www.stat.uga.edu/IWSM2013

July 20–25: Budapest, Hungary. **29th European Meeting of Statisticians (EMS2013) w** http://www.ems2013.eu

ims July 29 – August 2: University of Colorado, Boulder, USA. **36th Conference on Stochastic Processes and their Applications w** http://math.colorado.edu/spa2013/

August 2013

ims August 1–3, 2013: CRM Montréal, Canada. **15th IMS New Researchers Conference, jointly sponsored by the IMS and the SSC w** http://www.math.mcgill.ca/nrc2013/

ims August 3–8: Montréal, Canada. **IMS Annual Meeting at JSM2013. w** http://amstat.org/meetings/jsm/

August 4–10: XVII Brazilian School of Probability (XVII EBP), Mambucaba, RJ, Brazil **w** http://www.im.ufrj.br/ebp17/

August 5–9: Guanajuato, Mexico. **Mathematics Congress of the Americas w** http://www.mca2013.org/

NEW August 11–16: Beijing, China. 8th International Workshop on Statistical Seismology (Statsei8) **w** http://geophy.pku.edu.cn/statsei8/

August 12–15: Toronto, ON, Canada. **22nd International Workshop on Matrices and Statistics w** http://www.fields.utoronto.ca/programs/scientific/13-14/IWMS/

August 13-16: Braunschweig, Germany. **Building Bridges: Probability, Statistics and Applications w** https://www.tu-braunschweig.de/stochastik/tagungen/building-bridges

NEW August 19–21: Boston, MA, USA. Measurement, Design, and Analysis Methods for Health Outcomes Research **w** https://ecpe.sph.harvard.edu/Outcomes-Research

August 22 – December 20: Berkeley, California, USA. **Theoretical Foundations of Big Data Analysis w** http://simons.berkeley.edu/program_bigdata2013.html

August 24–31: Hong Kong. **59th ISI World Statistics Congress w** www.isi2013.hk

NEW August 25–30: Hong Kong, China. The 59th World Statistics Congress (WSC) **w** http://www.isi2013.hk/en/index.php

September 2013

September 8–12: Radisson Hotel, Research Triangle Park, NC. **SAMSI Program on Low-dimensional Structure in High-dimensional Systems (LDHD): Opening Workshop w** http://samsi.info/LDHD

September 12: Milan, Italy. **BarCamp S.Co.2013 w** http://mox.polimi.it/barcamp_sco2013/

NEW September 19–21: Istanbul, Turkey. y-BIS 2013, Joint Meeting of Young Business and Industrial Statisticians **w** http://ybis13.msgsu.edu.tr/

NEW September 21 (*please note date change*): Harvard University Science Center, Cambridge, MA. New England Symposium on Statistics in Sports **w** http://www.nessis.org/

NEW September 26–27: Boulder, CO, USA. Third International Workshop on Climate Informatics **w** https://www2.image.ucar.edu/event/ci2013

October 2013

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

November 2013

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

December 2013

NEW 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/

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

NEW 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** TBC

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/

Continues on **page 34**

International Calendar *continued*

March 2014

NEW 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

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

June 2014

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

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

July 2014

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

ims July 7–11: Sydney, Australia. **2014 IMS Annual Meeting. w** TBC

ims July 28 – August 1: Buenos Aires, Argentina. **37th Conference on Stochastic Processes and Applications w** TBC

August 2014

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

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

July 2015

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

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

August 2015

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

March 2016

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

July 2016

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

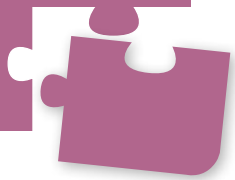
July 2017

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

July 2018

ims 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. Email the details to Elyse Gustafson at erg@imstat.org**. We'll list them here in the *Bulletin*, and online too, at** www.imstat.org/meetings



Membership and Subscription Information

Journals

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

Individual and Organizational Memberships

Each individual member receives the *IMS Bulletin* (print and/or electronic) and may elect to receive one or more of the five scientific journals. Members pay annual dues of $112. An additional $62 is added to the dues of members for each scientific journal selected ($37 for *Stat Sci*). **Reduced membership** dues are available to full-time students, new graduates, permanent residents of countries designated by the IMS Council, and retired members. **Organizational memberships** are available to departments, corporations, government agencies and other similar research institutions at $169 per year.

Individual and General Subscriptions

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