Inaugural IMS Lawrence D. Brown PhD Student Award recipients announced

We are pleased to announce the following members have been selected to receive the 2019 IMS Lawrence D. Brown PhD Student Award:

- **Yuqi Gu**, Department of Statistics, University of Michigan
- **Didong Li**, Department of Mathematics, Duke University
- **Ashwin Pananjady**, Department of Electrical Engineering and Computer Science, University of California, Berkeley

The three PhD students will present at an invited session as part of the World Congress/IMS Annual Meeting in Seoul, South Korea, August 17–21, 2020. More information about the congress can be found at [http://www.wc2020.org/](http://www.wc2020.org/). If you want to join them on the program at the World Congress, abstract submission will be opening soon, with a deadline of March 31, 2020.

Lawrence D. Brown (1940–2018), Miers Busch Professor and Professor of Statistics at The Wharton School, University of Pennsylvania, had a distinguished academic career. He was known for his groundbreaking work in a broad range of fields including decision theory, recurrence and partial differential equations, nonparametric function estimation, minimax and adaptation theory, and the analysis of call-center data.

Professor Brown’s firm dedication to all three pillars of academia—research, teaching, and service—sets an exemplary model for generations of new statisticians. The IMS Lawrence D. Brown PhD Student Award advocates for the values by which he lived.

To donate to the IMS Lawrence D. Brown PhD Student Award Fund (or another fund), please visit [https://www.imstat.org/shop/donation/](https://www.imstat.org/shop/donation/).
IMS Members’ News

South Korean Inchon Award for Byeong Park
Byeong Uk Park, Professor of Statistics at Seoul National University in South Korea, has received the 33rd Inchon Award. The prestigious Inchon Awards honor the memory of Kim Sung-soo (whose pen-name was Inchon), former vice-president of the Republic of Korea, founder of Korea University, and founder of the Dong-A Ilbo (the East Asia Daily), a major newspaper in South Korea. The Inchon Foundation, which makes the awards, annually honors individuals for outstanding contributions to the advancement of journalism, science, public service, and entrepreneurship. Professor Park won the award in the field of Science and Technology, for the first time in statistical science. Each recipient of the award is presented with the Letter of Citation, a medal, and a cash prize of 100M Korean Won (about US$86,000).

Byeong U. Park is a Vice President of the ISI, and an IMS Council member. He served as the Scientific Secretary of the Bernoulli Society and is elected to Fellowship of the IMS and of the ASA.

Hal Stern appointed UCI Vice Provost for Academic Planning
IMS Fellow Hal S. Stern has been appointed vice provost for academic planning at the University of California, Irvine (UCI). Since joining UCI as founding chair of the statistics department in 2002, Stern has held a range of academic and administrative leadership roles. He served for eight years as chair of statistics, and then more than six years as the Ted and Janice Smith Family Foundation Dean of the Donald Bren School of Information and Computer Sciences. He is currently a chancellor’s professor of statistics. Formerly at Iowa State University and Harvard University, Stern’s research interests include Bayesian methods, model assessment techniques, causal inference, and collaborative projects in the life sciences and social sciences. He is co-director of the Center for Statistics and Applications in Forensic Evidence, funded by the National Institute of Standards and Technology, and part of the leadership team for the Conte Center at UCI, funded by the National Institutes of Health. Stern is a fellow of IMS, the ASA and the American Association for the Advancement of Science. He has also served on several expert committees for the National Academies of Sciences, Engineering, and Medicine.
Per Mykland receives 2019 Guggenheim Fellowship

IMS Fellow Per Mykland was among only three people awarded a Guggenheim Fellowship this year in Mathematics or Statistics. These Fellowships are intended for individuals who have demonstrated exceptional capacity for productive scholarship. The Guggenheim Foundation receives approximately 3,000 applications, and makes around 175 awards, each year.

Per Mykland is Robert M. Hutchins Distinguished Professor of Statistics and Finance at the University of Chicago, where he is also Director of the Stevanovich Center for Financial Mathematics. He has held appointments at Oxford and Princeton. Mykland grew up in Norway, where he obtained a BS in Mathematics and Computer Science, and an MS in Statistics, from the University of Bergen. He received his PhD from the University of California at Berkeley. His main research interests are the statistics and econometrics of time dependent processes, including time series and continuous processes. These can occur in survival analysis, econometrics, and web data. Highlights include the development of likelihood and expansion methods for martingales (fair games), especially in the context of estimating equations. The results have wide application, including the construction of new nonparametric likelihoods in time series and survival analysis.

His recent focus is high-frequency data, mainly in economics and finance. In one breakthrough, he has shown how to connect the analysis of such data with classical statistical techniques, using contiguity. He has contributed to the theory of estimation in the presence of noise, including the development of the two-scales and pre-averaging estimators of volatility, and other intra-day quantities. He has also developed an approach for integrating statistical and market information in the pricing and hedging of options, with a particular view to hedging against statistical uncertainty. Most recently, he has developed the “observed asymptotic variance”, which sets nonparametric standard errors for estimators based on high frequency data. Apart from their intrinsic academic value, these results are of practical interest to investors, regulators and policymakers.

Mykland’s current project seeks to understand the fundamentals of the data architecture, and how to turn the data into knowledge. A main ingredient is to create a unified framework for inference in high frequency data, based on dividing the observations, as well as the parameter processes, into blocks. He pursues two paths. A “within-block” approach uses contiguity to make the structure of the observations more accessible in local neighborhoods. The “between-block” approach sets up a tool for using stochastic analysis to study the relationship between parameters in blocks that are adjacent, in time and space. A longer-run research goal is to develop an integrated theory of continuous-time economics and finance, and high-frequency data. The former reasons through hypothetical high-frequency data, but now these data are no longer hypothetical but very real.

While his recent interest has been in economic data, the mathematical theory connects intimately with medical survival analysis. There is connection to neural science and data, but now these data are no longer hypothetical but very real.

Per Mykland is Associate Editor of *JASA* and the *Journal of Financial Econometrics*. He is a fellow of IMS, ASA and the Society for Financial Econometrics (SoFiE). He is currently President of SoFiE and has previously served on the IMS Council.
Distinguished Lectureship Award for James Robins

James Robins, Mitchell L. and Robin LaFoley Dong Professor of Epidemiology at Harvard, has received the inaugural Distinguished Lectureship Award from the Center for Causal Inference. Robins accepted the award at the center’s annual Causal Inference Summer Institute, which was hosted by the Rutgers School of Public Health in New Brunswick, New Jersey.

James Robins’ research has focused on the development of analytic methods appropriate for drawing causal inferences from complex observational and randomized studies with time-varying exposures or treatments. The new methods are to a large extent based on the estimation of the parameters of a new class of causal models—the structural nested models—using a new class of estimators—the G estimators. The usual approach to the estimation of the effect of a time-varying treatment or exposure on time to disease is to model the hazard incidence of failure at time $t$ as a function of past treatment history using a time-dependent Cox proportional hazards model.

Philip Stark appointed to advise on US election processes


Established by the Help America Vote Act of 2002 (HAVA), the EAC Board of Advisors is comprised of 37 individuals who assist the EAC in carrying out its federally mandated duties, which includes developing guidance to meet HAVA requirements, adopting voluntary voting system guidelines, serving as a national clearinghouse of information about election administration, accrediting testing laboratories and certifying voting systems, and auditing the use of HAVA funds.

Under HAVA, the house minority leader can select one professional from the field of science and technology to serve on the EAC Board of Advisors.

A professor of statistics and associate dean of mathematical and physical sciences at UC Berkeley, Philip Stark is considered the originator of “risk-limiting” audits and has worked with California and Colorado secretaries of state, helping to conduct risk-limiting audits in nearly 20 counties. He has testified about election integrity before the California legislature and at trial in a contested election. He also sits on the development team for the Travis County, Texas, STAR-Vote system, which combines auditability with end-to-end cryptographic verifiability.

Mark Girolami to lead Cambridge’s Centre for Digital Built Britain

Professor Mark Girolami has been elected to the Sir Kirby Laing Professorship of Civil Engineering within the Department of Engineering at the University of Cambridge. In this role he will provide academic leadership for the Centre for Digital Built Britain (https://www.cdbb.cam.ac.uk/) across the University and more broadly throughout the national and international research communities.

Mark Girolami moved to the Centre for Digital Built Britain from the Department of Mathematics at Imperial College London, where he held both the Chair of Statistics and the Lloyds Register Foundation–Royal Academy of Engineering Research Chair in Data Centric Engineering. He was one of the original founding Executive Directors of The Alan Turing Institute, the UK’s national institute for Data Science and Artificial Intelligence, after which he was appointed as Strategic Director at Turing, where he established and continues to lead the Programme on Data Centric Engineering.

Mark is an elected fellow of the Royal Society of Edinburgh, he was an EPSRC Advanced Research Fellow (2007–12), an EPSRC Established Career Research Fellow (2012–18), and a recipient of a Royal Society Wolfson Research Merit Award. He gave an IMS Medallion Lecture in 2017. Prior to embarking on an academic career, he spent a decade with IBM as a Chartered Mechanical Engineer working in diverse areas such as high volume manufacturing automation and the exploitation of computational fluid dynamics in electronic systems design.

Mark is recognised for his research contributions that sit at the interface of the statistical, mathematical, physical, life, and engineering sciences. The impact of his research includes successful translation to new products and services for companies and organisations, such as National Cash Registers and Amazon, as well as providing essential data modelling and analysis tools employed the world over by neuroscientists and cellular biologists.

His work introducing Riemann manifold Langevin and Hamiltonian Monte Carlo methods was read before the Royal Statistical Society in 2010, receiving the largest number of contributed discussions of a paper in its 183-year history. These Monte Carlo methods are now enabling the quantification of uncertainty in systems and phenomena as diverse as, for example, whole heart models, turbulent combustion, deep learning for artificial intelligence, virus transmission, new material characterization, and structural health monitoring.
Sharon-Lise Normand: ENAR Presidential Invited Speaker

ENAR (the Eastern North American Region of the International Biometrics Society), together with IMS and Sections of ASA, holds a meeting each spring. The ENAR 2020 Spring Meeting will be held at the JW Marriott Nashville from March 22–25, 2020. The meeting brings together researchers and practitioners from academia, industry and government, connected through a common interest in Biometry.

Registration is required and lunch will be provided:

Registration is required and lunch will be provided: https://enar.org/meetings/spring2020/. Early bird meeting registration fees are available through January 15, 2020.

The meeting includes a “Fostering Diversity in Biostatistics” workshop on Sunday, March 22. The workshop, which marks its 20th anniversary this year, will provide a forum for discussion of important issues related to diversity. Themes of the workshop will include career and training opportunities within biostatistics. The workshop will focus on connecting under-represented minority students interested in biostatistics with professional biostatisticians in academia, government and industry. Registration is required and lunch will be provided: https://enar.org/meetings/FosteringDiversity/

ENAR Presidential Invited Speaker is Sharon-Lise Normand, the S. James Adelstein Professor of Health Care Policy (biostatistics) in the Department of Health Care Policy at Harvard Medical School and in the Department of Biostatistics at the Harvard Chan School of Public Health. Dr. Normand earned her BSc (1984) and MSc (1985) degrees in statistics from the University of Western Ontario and her PhD (1990) in biostatistics from the University of Toronto. Her research focuses on the development of statistical methods for health services and regulatory policy research, primarily using Bayesian and causal inference approaches. She has developed a long line of research on methods for the analysis of patterns of treatment and quality of care for patients with cardiovascular disease and with mental disorders in particular. Dr. Normand has developed analytical approaches for comparing hospitals and physicians using outcomes and process-based measures. Since 2002, she has served as director of Mass-DAC, the data-coordinating center responsible for collecting, analyzing, and reporting on the quality of care for adults discharged following a cardiac procedure from all non-federal hospitals in Massachusetts. She serves as the director of the Medical Device Epidemiology Network (MDEpiNet) Methodology Center. Her focus is on the development of statistical approaches to active medical device surveillance, valid inferences from distributed networks, and the improvement of causal inference in the presence of high-dimensional data. On the mental health side, Dr. Normand is leading an NIMH-funded study to estimate the value of publicly funded mental health care for patients with serious mental illness.

Dr. Normand is an elected fellow of the ASA, the American Association for the Advancement of Science, and the American College of Cardiology, and Associate Member of the Society of Thoracic Surgeons. She served as the 2010 ENAR President; was inaugural co-chair of the PCORI Methodology Committee; co-chairs a Committee on National Statistics/National Academy of Sciences panel reviewing the Safety Measurement System of the Compliance, Safety, Accountability program run by the Federal Motor Carrier Safety Administration; and served on several NAS Committees, including the Committee of Applied and Theoretical Statistics (CATS). Dr. Normand received ASA’s Health Policy Statistics Section Long-Term Excellence Award, the Outstanding Lifetime Achievement Award from the American Heart Association, the L. Adrienne Capples Award for Excellence in Teaching, Research, and Service in Biostatistics from Boston University, and the Mosteller Statistician of the Year from ASA’s Boston Chapter.

Medical Product, Healthcare Delivery, and Road Safety Policies: Seemingly Unrelated Regulatory Questions

The evaluations of medical product effectiveness and safety, the quality of hospital care, and the safety of U.S. roadways involve the use of large, complex observational data to make policy decisions. Careful design and analysis of such data are critical given the large populations impacted. While increasing access to data of increased size and type permit, in theory, richer evaluations, study design should assume a more prominent role. This talk will describe three different policy problems: the impact of the hospital readmission reduction program, the effectiveness of seemingly similar drug eluting coronary stents, and the safety of U.S. motor carriers. Statistical issues common across these problems, including clustered data, multiple treatments, multiple outcomes, high-dimensional data, and lack of randomization, are highlighted and solutions discussed.

Sharon-Lise Normand is the S. James Adelstein Professor of Health Care Policy (biostatistics) in the Department of Health Care Policy at Harvard Medical School, and in the Department of Biostatistics at the Harvard Chan School of Public Health. Dr. Normand earned her BSc (1984) and MSc (1985) degrees in statistics from the University of Western Ontario and her PhD (1990) in biostatistics from the University of Toronto. Her research focuses on the development of statistical methods for health services and regulatory policy research, primarily using Bayesian and causal inference approaches. She has developed a long line of research on methods for the analysis of patterns of treatment and quality of care for patients with cardiovascular disease and with mental disorders in particular. Dr. Normand has developed analytical approaches for comparing hospitals and physicians using outcomes and process-based measures. Since 2002, she has served as director of Mass-DAC, the data-coordinating center responsible for collecting, analyzing, and reporting on the quality of care for adults discharged following a cardiac procedure from all non-federal hospitals in Massachusetts. She serves as the director of the Medical Device Epidemiology Network (MDEpiNet) Methodology Center. Her focus is on the development of statistical approaches to active medical device surveillance, valid inferences from distributed networks, and the improvement of causal inference in the presence of high-dimensional data. On the mental health side, Dr. Normand is leading an NIMH-funded study to estimate the value of publicly funded mental health care for patients with serious mental illness.

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Student Puzzle Corner 26

We’ve extended the deadline to Anirban DasGupta’s latest puzzle, about phase transitions. He says: This problem can be rhetorically framed as whether we should put any trust in a unanimous assertion made independently by a large number of pathological liars. On the one hand, you may argue that if just one of them is telling the truth, then the assertion must be true. But you may also argue that chronic liars should never be trusted. It will turn out that in an appropriate mathematical formulation, there is a phase transition in the problem, and we will ask you to discover that phase transition.

A club consists of \( m \) members, and on any given instance, each member tells the truth with probability \( p \) and lies with probability \( 1 - p \); we will take \( p \) to be very small, but not zero. The club members are assumed to act independently. Suppose that these \( m \) members are taken to planet \( X \), and on arrival, each member is given a choice of \( n \) distinct color names, such as red, blue, green, etc. Each member looks at Earth from planet \( X \), and one by one each of them announces that Earth looks purple, one of the colors on their color list.

a) Suppose \( m = n = 20 \). Calculate the probability that indeed Earth looks purple from planet \( X \) if each club member said so, for \( p = .05 \) and for \( p = .04 \); assume that the true color is one of the \( n \) on the list with equal probability.

b) Suppose \( \frac{1}{3} < p = n - \alpha \log n, m = \gamma n \), where \( \alpha \geq 0, \gamma > 0 \). Denote the probability that from planet \( X \), Earth really does look purple if each of the \( m \) members says so by \( u(\alpha, \gamma, n) \). Find the limit of \( u(\alpha, \gamma, n) \) as \( n \to \infty \) for given \( \alpha \) and given \( \gamma \).

Remember to look for a phase transition.

The Curious Incident of the Car in the Night-time

Yuval Peres recalls hearing the following story from Shizuo Kakutani in 1991, when he was a postdoc at Yale. He relates:

“Once, during 1960, Paul Erdős was visiting the US, and he stayed at Aryeh Dvoretzky’s NYC apartment. One day, Shizuo Kakutani drove from Yale to see them. After a long discussion, the three of them thought they had proved that one dimensional Brownian motion has points of increase almost surely, [Yuval notes that such points are local maxima to their left, and local minima to their right.] Then they had dinner at the apartment, and Kakutani left to drive back to Yale. But no matter how many times he tried, his car would not start. So he came back. The three started looking at the problem again. They now realized that the proof had a flaw. After a few more hours they proved the opposite result (almost surely, each of them is a unique global maximum in some rational interval, hence there are only countably many local maxima. Fortunately, the false statement is part of the informal discussion and not part of the proof in [1]. Simpler proofs of the nonexistence of points of increase were published later, see, e.g., [2] and [3].”

References


NEW deadline: December 1, 2019
Nominations open for these awards

Please consider nominating your outstanding colleagues and collaborators for these IMS awards. A candidate for IMS Fellowship shall have demonstrated distinction in research in statistics or probability, by publication of independent work of merit. Candidates for fellowship should be members of IMS when nominated. You may like to read the advice of Philip Protter, a past Chair of the Committee on Fellows, on how to choose and nominate a Fellow: https://www.imstat.org/2018/10/01/nominating-a-fellow-heres-how-to-choose/.

The Fellowship nomination deadline is January 31, 2020. For requirements, see https://www.imstat.org/honored-ims-fellows/nominations-for-ims-fellow/.

Nominations are invited for the Carver Medal, created by the IMS in honor of Harry C. Carver, for exceptional service specifically to the IMS. All nominations must be received by February 1, 2020. Please visit https://www.imstat.org/ims-awards/harry-c-carver-medal/.

IMS Awards for early-career researchers

The IMS Peter Gavin Hall Early-Career Prize recognizes early-career research accomplishments and research promise in statistics, broadly construed. Nominees for the inaugural 2020 prize should have received their doctoral degrees in 2012–2019. The IMS gives the award committee latitude to consider nominees with extenuating circumstances that may have delayed professional achievements. Nominations may be made by any member of the IMS, and nominees do not need to be IMS members. The nomination deadline is December 1, 2019. The inaugural award will be presented at the IMS Presidential Awards ceremony held at the IMS annual meeting, part of the 10th World Congress in Probability and Statistics (WC2020), jointly organized by the Bernoulli Society and IMS, hosted by Seoul National University from August 17–21, 2020. Electronic submission is required: https://www.imstat.org/ims-awards/peter-gavin-hall-ims-early-career-prize/

Richard Tweedie (1947–2001) played a significant role throughout his career as a mentor. The Tweedie New Researcher Award, created in his memory, provides funds for travel to present the Tweedie New Researcher Invited Lecture at the IMS New Researchers Conference. Nominate by December 1, 2019: https://www.imstat.org/ims-awards/

IMS Travel Awards: apply now for next year

Applications are open for two types of travel awards. The IMS Hannan Graduate Student Travel Award funds travel and registration to attend (and possibly present a paper/poster at) an IMS sponsored or co-sponsored meeting. This travel award is available to IMS members who are graduate students (seeking a Masters or PhD degree) studying some area of statistical science or probability. If you are a New Researcher (awarded your PhD in 2014–19) looking for travel funds, you should apply for the IMS New Researcher Travel Award to fund travel, and possibly other expenses, to present a paper or a poster at an IMS sponsored or co-sponsored meeting (not the IMS New Researcher’s Conference, that’s funded separately). Applicants for both these travel awards must be members of IMS, though joining at the time of application is allowed (student membership is free, and new graduate membership discounted!). The application deadline for both is February 1, 2020. See https://www.imstat.org/ims-awards/ims-hannan-graduate-student-travel-award/ and https://www.imstat.org/ims-awards/ims-new-researcher-travel-award/.

BERNOULLI SOCIETY'S 2020 WOLFGANG DOEBLIN PRIZE

The Bernoulli Society for Mathematical Statistics and Probability welcomes nominations for the 2020 Wolfgang Doeblin Prize.

The prize, which was founded in 2011 and is generously sponsored by Springer, is awarded every two years to an individual at the beginning of his or her mathematical career, for outstanding research in the field of probability theory. The awardee will be invited to submit to the journal Probability Theory and Related Fields a paper for publication as the Wolfgang Doeblin Prize Article, and will also be invited to present the Doeblin Prize Lecture at the 10th IMS–BS World Congress in Probability and Statistics (in Seoul, South Korea, on August 17–21, 2020), or at a later Conference on Stochastic Processes and their Applications.

See http://www.bernoulli-society.org/index.php/prizes/

Each nomination should offer a brief but adequate case of support and should be sent by December 30, 2019, to the chair of the prize committee, Zhen-Qing Chen, at the e-mail address: zqchen@uw.edu with subject heading: Doeblin Prize 2020.

MARVIN ZELEN LEADERSHIP AWARD IN STATISTICAL SCIENCE

This annual award was established to honor Dr. Marvin Zelen’s long and distinguished career as a statistician and his major role in shaping the field of biostatistics. It recognizes an individual in government, industry, or academia, who by virtue of his/her outstanding leadership, has greatly impacted the theory and practice of statistical science.

Nominations are welcome for next year’s award, to be given in Spring 2020. The deadline is Monday, December 2, 2019.

Please see the instructions at https://www.hsph.harvard.edu/biostatistics/zelenaward/
Obituary: Murray Rosenblatt
1926–2019

Last month, the probability and statistics communities lost one of their legendary figures. Murray Rosenblatt passed away on October 9, 2019 in San Diego at the age of 93.

Murray was born September 7, 1926, and raised in New York City. After graduating from the City College of New York, he pursued a PhD degree in mathematics at Cornell (1946–49), where he learned from and interacted with an array of outstanding scientists and mathematicians, including Richard Feynman, Philip Morrison, William Feller, and Marc Kac. Although Murray took a number of courses from Feller, he ultimately chose to write his dissertation under the direction of Marc Kac since he would allow Murray “to work on the problems he wanted to solve.” His dissertation, *On distributions of certain Wiener functions*, considered problems related to the Feynman–Kac formula.

After spending one more productive year at Cornell—not the least which included marriage to Adylin Lipson—the couple moved to Chicago, where Murray began his first academic position in the Committee on Statistics at the University of Chicago. At Chicago he would interact with a large stable of budding statisticians, including Raj Bahadur, William Kruskal, Charles Stein and Leo Goodman, all of whom who would go on to illustrious careers. While at Chicago, Murray began a short but highly productive collaboration on time series with Ulf Grenander, culminating in one of the leading books on the subject, *Statistical Analysis of Stationary Time Series* (Wiley, 1957), which remains a classic today.

Murray held appointments at University of Stockholm, Columbia University, Indiana University, and Brown University before moving to the Mathematics Department at the University of California at San Diego (UCSD) in 1964, where he would spend the rest of his academic career, retiring in 1994. He was one of the first hires in the mathematics department at the newly created university. These were exciting and heady times to be at a freshly minted university that in a very short time would evolve into a world-class research university. Murray viewed himself as an applied mathematician and enjoyed being a long-time member of the mathematics department at UCSD. On the occasion of his 90th birthday, The Murray and Adylin Rosenblatt Endowed Lectures Series in Applied Mathematics was initiated.

Murray wrote seminal papers on density estimation, central limit theorems under strong mixing, spectral domain methods and long memory processes. In 1956, two of his most cited and celebrated papers, “Remarks on some nonparametric estimates of a density function” (*Ann. Statist.*) and “A central limit theorem and a strong mixing condition” (*Proc. Natl. Acad. Sci. USA*), appeared in print. These papers were the starting points for two lines of active research themes, density estimation and central limit theory for mixing sequences, that would continue to this day. The *Ann. Statist.* paper introduced kernel density estimates and the ideas behind optimal bandwidth selection relative to minimizing mean squared error. In a more probabilistic vein, the *PNAS* paper introduced the notion of strong mixing, which contains perhaps the most understated sentence in all of Murray’s papers: “The strong mixing condition used in this paper seems to be a more intuitively appealing formalization of this notion than most others.” Even though the *PNAS* paper has spurred an entire

(Continues on page 8)
Murray Rosenblatt: 1926–2019

Continued from page 8

cottage industry related to various mixing conditions and their associated central limit theorems, the basic ideas behind Murray’s original strong mixing remain intact. Perhaps more rewarding, though, is that the concept of strong mixing has become an invaluable tool in methodology. Many of the commonly used time series models satisfy the strong mixing property and hence the central limit applies for a variety of functions of the data including sample means, sample covariances and correlations, and score functions for likelihoods. The latter provides the machinery to establish normality and other optimality conditions for maximum likelihood estimators. The innocuous-looking paper, “Remarks on a multivariate transformation” (Ann. Statist., 1952), now commonly referred to as the Rosenblatt Transformation, has recently become a highly cited and used procedure for testing the goodness-of-fit of multivariate distributions. In a slightly more recent paper, “Independence and Dependence” (Berkeley Symposium, 1961), Murray produces a simple long memory time series for which the sample mean is not normal in the limit. This paper inspired a number of scholars to study limit processes that are associated with long memory. Such limit processes became known as Rosenblatt Processes.

Murray received many accolades and awards for his path-breaking research. He was Fellow of the Institute of Mathematical Statistics, the Society for Industrial and Applied Mathematics, the American Mathematical Society and the American Association for the Advancement of Science; he was a Guggenheim Fellow (1965–1966, 1971–1972) and was elected to the National Academy of Sciences in 1984. He delivered the IMS Wald Lectures in 1970. He has an impressive record of mentoring and advising PhD students (22 dissertations). He was there for his students with great encouragement and support. Together, Murray and Ady served as surrogate parents to many of Murray’s students.

After a courageous fight with cancer, Ady passed away in 2009. Their daughter Karin (of Champaign, IL) and son Daniel (of Live Oak, TX) survive them.

Contributions in memory of Murray Rosenblatt can be made to the Murray and Adylin Rosenblatt Endowed Lecture Series in Applied Mathematics (info can be found at https://giveto.ucsd.edu/giving/home/gift-referral/48105ce-6b34-498b-9477-9de96de2b82c).

Richard Bradley, Indiana University, and Richard Davis, Columbia University

Also available in English.
Contributing Editor Yoram Gat writes:
The practice of sortition—appointing decision-making bodies via statistical sampling—has been gaining ground in recent years. Very recently, an allotted body has been convened by the French government to propose ways to deal with climate change. In Belgium, a permanent advisory body appointed by sortition has been constituted. In 2016, allotted bodies wrote propositions for constitutional amendments that were then put up for popular referenda.

As allotted bodies come to wield significant political power, the issues associated with the way they are constituted gain importance and deserve critical scrutiny. Many of those issues are the same ones that affect the constitution of any decision-making body: determining the size of the body, the length of its term of service, its purview, its procedures, its budget, its professional staff, etc. Setting those constitutive parameters correctly would make the difference between having a body that is able to make policy based on the informed and considered ideas of its members, and one which is in fact merely a façade for established powers that use it to legitimate their own decisions.

However, allotted bodies do present a set of issues that are unique to their constitution: issues associated with the sampling procedure. Use of sortition is justified by the fact that it constitutes a body whose makeup reflects the makeup of the population affected by its decisions. It is therefore crucial that the sampling procedure is constructed in a way that enables a convincing argument to be made that the resulting sample is, for all practical purposes, an equal-probability sample from the entire affected population.

In recent applications of sortition, these issues have been dealt with in very problematic ways. The entire sampling procedure was usually undertaken out of sight of the public, sometimes handed off to a private contractor, with the public being expected to trust the outcome blindly. In addition, some of the details of the sampling procedure that were published clearly contradicted the requirement for equi-probability sampling.

In view of the deficiency of the de facto standards that are being established, I think that clear, science-based guidelines for the acceptability of a sortition procedure should be established. It seems that the expertise of statisticians in sampling procedures makes them (us) qualified for writing such guidelines.

Therefore, I would like to call upon the community of statisticians to produce, publish and promote a protocol, or a set of criteria, for properly designed sortition procedures. The protocol should allow the evaluation of the quality of proposed applications of sortition. The existence of such a protocol, if it is perceived as having been carefully and professionally done, can serve as a useful guide to those who are designing sortition procedure. It may be an important contribution to the democratization of the way decisions are made in modern society.

Here are some of the issues that a useful protocol for sortition would need to address:

1. **Verifying that a reliable registry of the eligible allotment pool has been created**

   What makes a such registry reliable? When allotting a national body, can the electoral rolls be used? In some countries (such as the U.S.) electoral rolls, or poll books, are an area for active political manipulation. If additional eligibility criteria need to be employed (e.g., being a resident of a particular area), this would require a
Continued from page 10

manipulation-resistant procedure to establish eligibility according to those criteria.

2. Verifying that sampling from the registry is for all practical purposes equi-probable
This may be far more difficult than it seems. Naturally, the randomization process should be public. However, randomization devices—mechanical or electronic—can be rigged by powerful adversaries (with the prize potentially being much more valuable than the prize in any money-prize lottery: control of the resources of a whole nation).

3. Achieving low rejection rate
Unless proper incentives are established, asking citizens to spend some significant time and effort in order to reach a decision or a set of decisions may yield few takers. In fact, in applications of sortition in recent years the rate of acceptance has usually been under 10 per cent. Of course, convening a body made of the minority of invitees who accept will result in a biased sample—yet this is essentially the standard practice. (This has usually been combined with a quota system which allocates representation to some pre-selected groups in the population, e.g. gender groups and age groups, according to their proportion in the population.) It has been suggested that the way to handle low acceptance rates is by making service mandatory, as is the custom for jury duty.
However, this may not always be an option and, in any case, having a decision-making body where most members have been pressed into service seems like a recipe for disaster.

Get involved
If these issues, and other relevant issues, seem interesting and important to you, and you’d like to take part in writing guidelines for how they should be properly addressed, please contact me at yoram_gat@yahoo.com and become part of a working group on this topic. Please also forward this invitation to any statistician who may be interested.

Auditor’s Report 2018


The 2018 fiscal year-end audit report has now also been completed, and it is posted online on the Council Reports page: https://www.imstat.org/wp-content/uploads/2019/10/2018AuditedFinancialStatements.pdf.

Institute of Mathematical Statistics
Statement of Financial Position
December 31, 2018 (with comparative totals for 2017)

<table>
<thead>
<tr>
<th>Assets</th>
<th>2018</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>$453,820</td>
<td>$442,447</td>
</tr>
<tr>
<td>Cash held for others</td>
<td>19,373</td>
<td>18,567</td>
</tr>
<tr>
<td>Accounts receivable, net</td>
<td>200,844</td>
<td>207,033</td>
</tr>
<tr>
<td>Interest receivable</td>
<td>5,144</td>
<td>3,724</td>
</tr>
<tr>
<td>Investments</td>
<td>6,644,726</td>
<td>6,937,737</td>
</tr>
<tr>
<td>Investments held for others</td>
<td>218,923</td>
<td>231,100</td>
</tr>
<tr>
<td>Prepaid expenses</td>
<td>65,313</td>
<td>93,974</td>
</tr>
<tr>
<td>Certificates of deposit</td>
<td>1,447,136</td>
<td>1,341,496</td>
</tr>
<tr>
<td>Investments restricted for endowment</td>
<td>218,803</td>
<td>78,300</td>
</tr>
<tr>
<td>Total assets</td>
<td>$9,273,230</td>
<td>$9,350,378</td>
</tr>
</tbody>
</table>

| Liabilities and Net Assets |     |               |
| Liabilities:              |     |               |
| Accounts payable and accrued expenses | $54,378 | $118,127  |
| Fiscal agent liability    | 237,394 | 249,667   |
| Unearned memberships, subscriptions, and meeting revenues |               |         |
| Total liabilities         | $1,412,273 | 1,461,438 |
|                           | 1,709,045 | 1,829,232 |

| Net assets:               |     |               |
| Without donor restrictions|     |               |
| Undesignated             |      |               |
| Council-designated       |      |               |
| Total net assets without donor restrictions | $5,162,807 | $5,265,822 |
|                           | 2,120,526 | 2,121,231 |
|                           | 7,282,443 | 7,380,974 |
|                           | 281,743   | 146,172     |
|                           | 7,564,186 | 7,577,146   |
|                           | $9,273,230 | $9,350,378 |
| With donor restrictions   |     |               |
| Total net assets          |     |               |
| Total liabilities and net assets |     |               |
The 10th World Congress in Probability and Statistics (WC2020), jointly organized by the Bernoulli Society and IMS, will be hosted by Seoul National University. The meeting organizers, led by program chair Siva Athreya and local chair Hee-Seok Oh, are expecting to attract more than 900 experts from over 40 countries. The Congress will take a comprehensive look at the latest developments in statistics and probability, as well as the current trends emerging from all associated fields. Here is a preview of the Invited Sessions (with each session’s organizer in brackets).

1. Conformal Invariance and Related Topics (Hao Wu): Konstantin Izyurov; Eveliina Peltola; Titus Lupu

2. Scaling Limits of Disordered Systems and Disorder Relevance (Rongfeng Sun): Erik Bates; Adam Bowditch; Yu Gu

3. Potential Theory for Non-local Operators and Jump Processes (Panki Kim): Zhen-Qing Chen; Takashi Kumagai; Krzysztof Bogdan

4. Mathematical Population Genetics and Computational Statistics (Paul Jenkins): Yun Song; Barbara Engelhardt; Vladimir Minin

5. Recent Advances in Shape Constrained Inference (Bodhisattva Sen): Fadoua Balabdaoui; Adityanand Guntuboyina; Roy Qiyang Han

6. Optimization in Statistical Learning (Garvesh Raskutti): Rebecca Willett; Min Xu; Nicolas Garcia Trillos

7. High-dimensional Robustness (Stas Minsker): Arnak Dalalyan; Chao Gao; Guillaume Lecue

8. Functional Data Analysis (Aurore Delaigle): Frederic Ferraty; Jane-Ling Wang; Alois Kneip

9. Quantum Statistics (Cristina Butucea): Masahito Hayashi; Andreas Winter; Marco Tomamichel

10. Change-point Problems for Complex Data (Claudia Kirch): Alexander Aue; Haeran Cho; Herold Dehling

11. Analysis of Dependent Data (Chae Young Lim): Tapabrata Maiti; Marc Genton; Mikyoung Jun

12. Statistics for Data with Geometric Structure (Sungkyu Jung): Hans Muller; Stephan Huckemann; Janice Scealy


15. Privacy (Angelika Rohde): John Duchi; Lukas Steinberger; Weijie Sud

16. Bootstrap for High-dimensional Data (Kengo Kato): Vladimir Spokoiny; Xiaohui Chen; Yuta Koike

17. Approximate Bayesian computation (Yanan Fan): Marina Vannucci; Jean-Luc Doret-Bernadet; Ritabrata Bhattacharya

18. Deep Learning (Johannes Schmidt-Hieber): Yasaman Bahri; Yongdai Kim; Peter Bartlett

19. Randomized Algorithms (Devdatt Dubhashi): Ronitt Rubinfeld; Shyam Oveis Gharaun; Aravind Srinivasan

20. Heavy-Tailed Phenomena (Stilian A. Stoever): Bikramjit Das; Henrik Hult; Takashi Owada

21. Probabilistic Theory of Mean Field Games (Xin Guo): Ulrich Horst; Sebastian Jaimungal; Marcel Nutz

22. Random Trees (Anita Winter): Elie Aidekon; Wolfgang Löhr; Minmin Wang


24. Random Planar Geometries (Nina Holden): Thomas Budzinski; Ewain Gwynne; Ellen Powell

25. Random Graphs (Christina Goldschmidt): Souvik Dhara; Jonathan Hermon; Marc Lelarge


27. Random Matrices and Related Fields (Manjunath Krishnapur): TBA

28. Statistical Inference for Graphs and Networks (Betsy Ogburn): Gesine Reinert; Alexander Volfovsky; Bhaswar Bhattacharya

29. High Dimensional Data Inference (Florentina Bunea): Alexandre Tsybakov; Richard Samworth; Andrew Nobel

30. Functional Estimation, Testing and Clustering under Sparsity (Jiashun Jin): Tracy Ke; Runze Li; Ming Yuan

31. Information Theory and Concentration Inequalities (Chandra Nair): Salman Beigi; Sergey Bobkov; Tomasz Tkocz

32. Statistical Learning (Yichao Wu): Jelena Bradic; Seung Jun Shin; Zhou Yu

33. Integrable Probability (Tomohiro Sasamoto): Leonid Petrov; Takashi Imamura; Jinho

34. Random Walks on Random media (Alex Drewitz): Jan Nagel; Perla Sousi; Rongfeng Sun

35. Stochastic Analysis in Mathematical Finance and Insurance (Marie Kratz): Christa Cuchiero; Ronnie Loeffen; Lioudmila Vostrikova

36. Problems and Approaches in Multi-Armed Bandits (Vianney Perchet): Shipra Agrawal; Csaba Szepesvári; Alessandro Lazaric

We hope you will join us in Seoul!
IMS meetings around the world
Joint Statistical Meetings: 2019–2023

IMS sponsored meeting
JSM 2020
August 1–6, 2020. Philadelphia, PA, USA.
http://www2.amstat.org/meetings/jsm/2020/

JSM (the Joint Statistical Meetings) is the largest gathering of statisticians and data scientists held in North America. It is also one of the broadest, with topics ranging from statistical applications to methodology and theory to the expanding boundaries of statistics, such as analytics and data science. JSM also offers a unique opportunity for statisticians in academia, industry, and government to exchange ideas and explore opportunities for collaboration.

IMS sponsored meetings: JSM dates for 2020–2024

<table>
<thead>
<tr>
<th>Year</th>
<th>Event details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>JSM: Philadelphia, August 1–6, 2020</td>
</tr>
<tr>
<td>2021</td>
<td>IMS Annual Meeting @ JSM: Seattle, August 7–12, 2021</td>
</tr>
<tr>
<td>2022</td>
<td>IMS Annual Meeting: TBC, Washington DC, August 6–11, 2022</td>
</tr>
<tr>
<td>2023</td>
<td>IMS Annual Meeting @ JSM: Toronto, August 5–10, 2023</td>
</tr>
<tr>
<td>2024</td>
<td>IMS Annual Meeting @ JSM: Portland, OR, August 3–8, 2024</td>
</tr>
</tbody>
</table>

IMS sponsored meeting
Bernoulli/IMS 10th World Congress in Probability and Statistics [see poster on following pages]
August 17–21, 2020. Seoul, South Korea
http://www.wc2020.org

Program chair: Siva Athreya; Local chair: Hee-Seok Oh. The 10th World Congress in Probability and Statistics (WC2020), jointly organized by the Bernoulli Society and IMS, will be hosted by Seoul National University. We are expecting to attract more than 900 experts from over 40 countries.

This upcoming World Congress will take a comprehensive look at the latest developments in statistics and probability as well as the current trends emerging from all associated fields. A special lecture series will document a variety of modern research topics with in-depth uses and applications of these disciplines as they relate to science, industrial innovation, and society as a whole.

As the largest city in South Korea, dynamic Seoul is a bewitching mix of ancient and modern structures, packed in a surprisingly compact metropolis that has earned it the designation of a UNESCO City of Design. The nation’s capital has a cutting-edge cityscape of glass, steel and futuristic skyscrapers, which tower over traditional wooden houses with tiled roofs and mazes of cobbled alleys in village-like districts. See poster on next pages.

IMS co-sponsored meeting
INDSTATS2019: “Innovations in Data and Statistical Sciences”
December 26–30, 2019. Mumbai, India
http://www.intindstat.org/IISA2019

The aim of INDSTATS2019 is to engage leading experts and junior members in all topics related to statistics and data sciences. Conference activities will consist of pre-conference short courses, plenary talks, invited sessions, contributed sessions, panel discussions and student paper competitions. Past IISA annual conferences have attracted over 300 participants, across academia, industry, government, regulatory agencies and non-profit organizations.
IMS sponsored meeting
ENAR dates, 2020–2022
March 22–25, 2020: in Nashville, TN
www.enar.org/meetings/future.cfm
The 2020 ENAR/IMS meeting will be in Nashville (and the following year in Baltimore, and then Houston in 2022). Featuring a Fostering Diversity in Biostatistics workshop, connecting underrepresented minority students interested in biostatistics with professional biostatisticians in academia, government and industry.

IMS sponsored meetings
ENAR/IMS 2021 ENAR/IMS 2022
March 14–17, 2021 March 27–30, 2022
Baltimore, MD Houston, TX

IMS co-sponsored meeting
Third International Conference on Mathematics and Statistics
February 6–9, 2020
American University of Sharjah, UAE
http://www.aus.edu/conferences/the-third-international-conference-on-mathematics-and-statistics
The conference offers a forum for researchers and scientists working in pure mathematics, applied mathematics, mathematical education and statistics to come together, discuss new research developments and network with one another. AUS-ICMS was initiated by the Department of Mathematics and Statistics at the American University of Sharjah (AUS), a high caliber young university in the Arabian Gulf region. AUS-ICMS incarnates the spirit of research fostered by AUS. Previously held in 2010 and 2015, over 250 researchers from many different countries participated in the conferences. High quality theoretical and applied work was presented at the conference through keynote lectures, special and contributed sessions.

IMS co-sponsored meeting
Bayes Comp 2020
January 7–11, 2020
University of Florida, Gainesville, FL
http://users.stat.ufl.edu/~jhobert/Conf_Website/
Bayes Comp is a biennial conference sponsored by the ISBA section of the same name. The conference and the section both aim to promote original research into computational methods for inference and decision making and to encourage the use of frontier computational tools among practitioners, the development of adapted software, languages, platforms, and dedicated machines, and to translate and disseminate methods developed in other disciplines among statisticians.

Bayes Comp is the current incarnation of the popular MCMSki series of conferences, and Bayes Comp 2020 is the second edition of this new conference series. The first edition was Bayes Comp 2018, which was held in Barcelona in March of 2018.

IMS co-sponsored meeting
Frontier Probability Days
May 8–10, 2020. Las Vegas, Nevada, USA
http://lechen.faculty.unlv.edu/FPD20/
Frontier Probability Days 2020 (FPD’20) is a regional workshop, taking place at the University of Nevada, Las Vegas. Its purpose is to bring together mathematicians, both regionally and globally, who have an interest in probability and its applications. FPD aims to complement other regional conferences in Probability that are held annually elsewhere in the US.

If you would like to participate and/or speak at the conference, please fill out a registration form on or before April 19, 2020. Registration is required but is free. To be considered for financial support, fill out a registration form by March 22: see the website for information.

IMS sponsored meeting
IMS Asia Pacific Rim Meeting (IMS-APRM2021)
January 5–8, 2021
University of Melbourne, Australia
http://ims-aprm2021.com/
The sixth meeting of the Institute of Mathematical Statistics Asia Pacific Rim Meeting (IMS-APRM) will take place in Melbourne, Australia. It will provide an excellent worldwide forum for scientific communications and collaborations for researchers in Asia and the Pacific Rim, and promote communications and collaborations between the researchers in this area and those from other parts of the world. The sixth meeting will continue and extend the accomplishments of the previous meetings, and will add a significant value to our continuous efforts to carry out our common mission in the statistical profession.

The 8th Workshop on Biostatistics and Bioinformatics
May 8–10, 2020. Atlanta, GA, USA
http://math.gsu.edu/yichuan/2020Workshop/
Biostatistics and Bioinformatics have been playing very important roles in scientific research fields in recent years. The workshop will provide the opportunity for faculty and graduate students to meet the top researchers, identify important directions for future research, facilitate research collaborations. The keynote speaker is Nilanjan Chatterjee, Bloomberg Distinguished Professor of Biostatistics and Medicine at the Johns Hopkins University Bloomberg School of Public Health and Johns Hopkins School of Medicine. There will be invited talks by distinguished researchers, and a poster session by young researchers and graduate students. Partial travel awards available.
BERNOULLI - IMS
10th WORLD CONGRESS in PROBABILITY and STATISTICS

www.wc2020.org

HOSTED BY
Seoul National University

ORGANIZED BY
Bernoulli Society
Institute of Mathematical Statistics

SUPPORTED BY

AUGUST 17-21, 2020
Seoul National University
Seoul, Korea

MARCH 31, 2020
Abstract Submission Deadline

APRIL 15, 2020
Abstract Acceptance Notifications

MAY 31, 2020
Early-bird Registration Deadline
Dear Colleagues and Friends,

On behalf of the local organizing committee, it is with great delight that we welcome you to Seoul National University in Seoul, South Korea for the 10th World Congress in Probability and Statistics (WC2020), jointly organized by the Bernoulli Society and IMS, from August 17 to 21, 2020. We are expecting to attract more than 900 experts from over 40 countries.

Held every four years, the congress is a worldwide event covering all branches of statistics and probability. This includes the latest scientific breakthroughs in theoretical, methodological, applied and computational statistics and probability, as well as stochastic processes.

We believe WC2020 will bring transformation and further advancement to the scientific level and quality of the study of statistics and probability.

As the largest city in South Korea, dynamic Seoul is a bewitching mix of ancient and modern structures, packaged in a surprisingly compact metropolis that has earned it the designation of a UNESCO City of Design.

We look forward to seeing you in Seoul, Korea.

Sincerely,

Hee-Seok Oh
Chair of the Local Organizing Committee
Department of Statistics, Seoul National University

SEUL, KOREA

The Korean Peninsula extends about 1,000 km from the Asian continent into the Pacific Ocean with more than 3,000 islands dotting the coastline. Mountains cover almost 70% of the land mass, making the country one of the most mountainous regions in the world and offering abundant forest resources. Administratively, Korea consists of nine provinces with 77 small cities and 88 counties.

With a history stretching back more than two thousand years, Seoul is also a rising global star as one of the world’s most wired cities, ranked first in technology readiness. In Seoul you will experience millennia of royal palaces and historic sites among a futuristic backdrop of some of the world’s most innovative and daring architecture, such as the chicly designed Dior building or recently inaugurated Seoullo 7017.

MAIN SPEAKERS

Named Lectures
Kolmogorov Lecture
Persi Diaconis [Stanford University]
Bernoulli Lecture
Alison Etheridge [University of Oxford]
Levy Lecture
Massimiliano Gubinelli [University of Bonn]
Laplace Lecture
Tony Cai [University of Pennsylvania]
Tukey Lecture
Sara van de Geer [ETH Zurich]
Wald Lecture
Martin Barlow [University of British Columbia]
Blackwell Lecture
Gabor Lugosi [Pompeu Fabra University]
Doob Lecture
Nicolas Curien [Université Paris-Sud Orsay]
Schramm Lecture
Omer Angel [University of British Columbia]

IMS Medallion Lectures
Gerard Ben Arous [New York University]
Andrea Montanari [Stanford University]
Elchanan Mossel [MIT]
Laurent Saloff-Coste [Cornell University]
Daniela Witten [University of Washington]

Public Lecture
To be named

IMS Presidential Address
Susan Murphy [Harvard University]

WC2020 Secretariat [People-X, Inc.]
1F, Haeoreum Bldg., 16, Yeoksam-ro 17gil, Gangnam-gu, Seoul, 06246, Korea
Tel. +82 2 566 5980, 6031 Fax. +82 2 566 6887 E-mail: info@wc2020.org
Other meetings and events around the world

75th Annual Deming Conference on Applied Statistics
December 2–6, 2019. Atlantic City, NJ, USA
www.demingconference.org
The 75th Annual Deming Conference on Applied Statistics will be held from December 2–4, 2019, followed by three parallel two-day short courses on December 5–6, at the state-of-the-art Tropicana Casino and Resort, Havana Tower, Atlantic City, NJ.

The purpose of the three-day Deming Conference on Applied Statistics is to provide a learning experience on recent developments in statistical methodologies in biopharmaceutical applications. The conference is composed of 12 three-hour tutorials on current topics in applied biopharmaceutical statistic and FDA regulations, as well as two one-hour distinguished keynotes on Monday and Tuesday. There will also be poster sessions. Online registration is open.

2020 Conference on Statistical Practice
February 20–22, 2020. Sacramento, CA, USA
https://ww2.amstat.org/meetings/csp/2020/index.cfm
Registration is open for the 2020 Conference on Statistical Practice, which aims to bring together hundreds of statistical practitioners—including data analysts, researchers, and scientists—who engage in the application of statistics to solve real-world problems on a daily basis. The goal of the conference is to provide participants with opportunities to learn new statistical methodologies and best practices in statistical analysis, design, consulting, and statistical programming. The conference also provides opportunities for attendees to further their career development and strengthen relationships in the statistics community.

Statistical Methods and Artificial Intelligence
April 6–9, 2020. Warsaw, Poland
https://sites.google.com/view/iwsmai
Artificial intelligence (AI) is mainly data-driven. It uses statistical methods through human-machine relationships during generation of data, production of algorithm, and prediction of results. The International Workshop on Statistical Methods and Artificial Intelligence will be an annual meeting of researchers in artificial intelligence, statistical methods, machine learning, and related areas. Topics include: artificial intelligence; statistical methods; data analysis and data mining; computational statistics; supervised and unsupervised learning; statistical methodology; bioinformatics; medical statistics; deep learning; data collection and applications; data science and blockchain technology; data science and artificial intelligence; mathematical statistics; sampling techniques and applications; statistical software (R, SAS, Python)

International Conference on Robotics and Artificial Intelligence
February 17–18, 2020
Paris, France
https://robotics.pulsusconference.com/
The International Conference on Robotics and Artificial Intelligence, the world’s premier international educational event on Robotics and Artificial Intelligence will be organized in Paris, France. We invite you to Robotics & AI 2020 to actively participate in our International Conference, to meet and interact with friends and colleagues from all over the world, to discuss science, to learn about the exciting developments in Robotics and Artificial Intelligence field, to break away from the daily routine and to enjoy everything that the city of Paris has to offer. Take part in our provocative and engaging exchanges with leading experts & expand professional networks with colleagues from around the world. Internationally leading scientists in Robotics and Artificial intelligence research are joining us here in to present and discuss their most recent research and achievements during this event.

6th IMA Conference on Mathematics in Defence and Security
March 26, 2020
London, UK
Science and technology play an increasingly important role in supporting the defence and security industries. Mathematics is fundamental to these two disciplines, providing a framework for understanding and solving the varied and complex problems faced, and to model systems and scenarios. These models are then used to estimate system performance, find weaknesses in real systems, and suggest improvements. This year we are delighted that keynote presentations will be given by UK MOD Chief Scientific Advisor Professor Dame Angela McLean and Dr Ned Allen, Lockheed Martin’s Chief Scientist and Corporate Senior Fellow.

Conference on Applied Statistics in Agriculture and Natural Resources
April 26–28, 2020
Gainesville, FL, USA
conference.ifas.ufl.edu/applied-stats
The Conference on Applied Statistics in Agriculture and Natural Resources brings together statisticians from academia, industry and government to discuss ideas and advancements in the application of statistics to solving agricultural research problems. This is a three-day conference consisting of a workshop, keynote speaker and a series of contributed papers and poster presentations.
Workshop on Statistical Data Editing
April 15–17, 2020
Geneva, Switzerland
https://reg.unog.ch/event/31130/

The workshop is a Conference of European Statisticians, organized by the UN Economic Commission for Europe. It will take place at the Palais des Nations, Geneva, Switzerland. The workshop aims to progress work on statistical editing in the wider context of the High-Level Group on Modernisation of Official Statistics (HLG-MOS) work programme.

The target audience of the workshop includes methodologists, statisticians and researchers in official statistics working on editing and imputation of statistical data derived from surveys, censuses, administrative and external sources in various subject-matter areas.

IWAP 2020 (10th International Workshop on Applied Probability)
June 15–18, 2020
Thessaloniki, Greece
http://iwap2020.web.auth.gr

IWAP, the International Workshop on Applied Probability, is a biennial series of conferences with the aim of fostering exchange and cross-fertilization of ideas on applied probability. It has been held in four continents and attracted a good number of participants (over 300) and distinct plenary speakers on the field of applied probability and applications. The supervision of the conferences has the IWAP International Board chaired by Prof. Joseph Glaz at the University of Connecticut, USA.

In June 2020, the IWAP conference will be hosted in Thessaloniki, Greece, and organized by the Aristotle University of Thessaloniki and chaired by Prof. George Tsaklidis. For further information please visit the conference homepage.

Joint Southern Statistical Meetings 2022 (JSSM2022)
June 27–July 1, 2022
Darwin, Australia
https://statsoc.org.au/event-3529236

The inaugural Joint Southern Statistical Meetings 2022 will be held in Darwin from 27 June to 1 July 2022. This conference will bring together the leading statistical communities in the region to provide a forum for researchers and practitioners across a variety of statistical disciplines to facilitate the exchange of theory, methods and applications.

To be kept up to date with our conference planning, please email your details to JSSM2022@gmail.com.

We invite regional associations to contact us with expressions of interest to be part of this event. If you would like to sponsor JSSM2022 please get in touch as well.

See you in Darwin in 2022!
More meetings and events

Symposium on Data Science and Statistics
*Beyond Big Data: Collaboration in Science, Industry, and Society*
June 3–6, 2020. Pittsburgh, PA, USA
https://ww2.amstat.org/meetings/sdss/2020/
The American Statistical Association invites you to join them at the third annual Symposium on Data Science and Statistics in Pittsburgh, Pennsylvania, June 3–6, 2020. SDSS 2020 will offer many occasions to learn about new data tools and methodologies, see data science in action, and network with experts. Sessions will center on the following six topic areas: Computational Statistics; Machine Learning; Data Visualization; Practice and Applications; Education; Software & Data Science Technologies.

41st Annual Conference of the ISCB
*August 23–27, 2020*
*Krakow, Poland*
www.iscb2020.info
The International Society for Clinical Biostatistics (ISCB) was founded in 1978 to stimulate research into the principles and methodology used in the design and analysis of clinical research and to increase the relevance of statistical theory to the real world of clinical medicine.

This 41st Annual Conference of ISCB will be organized in the historic city of Poland, Krakow. The conference will provide the scientific forum for international exchange of recent advances and trends in theory, methods and applications of biostatistics. In line with previous conferences, courses and social events will be organized.

Women in Statistics and Data Science Conference
*October 1–3, 2020*
*Pittsburgh, PA, USA*
https://ww2.amstat.org/meetings/wsds/2020/
The annual Women in Statistics and Data Science Conference is heading to Pittsburgh next October!
Plan to join us next year in Pittsburgh, PA, October 1-3 for this special conference. Better yet, participate by submitting a concurrent, panel, or poster session abstract when the time comes. Submissions will be open February 13–April 2.
Bookmark our page or join the mailing list (you can sign up on the meeting link above) so you can be kept up to date on submission opportunities and registration.

28th International Workshop on Matrices and Statistics (IWMS 2020)
*December 15–17, 2020*
*Manipal, Karnataka, India.*
https://carams.in/events/international-workshop-on-matrices-and-statistics/
The 28th International Workshop on Matrices and Statistics, IWMS 2020, will be held at the Center for Advanced Research for Applied Mathematics and Statistics, Manipal Academy of Higher Education (MAHE), in Manipal, Karnataka, India. The themes of workshop will focus on Matrix Analysis, Projectors in Linear Models & Multivariate Analysis, Growth Curve Models, Linear Regression Models, Linear Statistical Inference, Modelling Covariance Structures, Multivariate and Mixed Linear Models, and Statistics in Big Data Analysis.

This series of Workshops has a long history, and we welcome the opportunity to hold the workshop once again in India.

CRR Day on 17th December 2020: The present 28th IWMS will be held beside ICLAA 2020 (December 17-19, 2020) and CRR Day will be on 17th December 2017, the common day of events, to celebrate 100 years of C.R. Rao, who is among the greatest statisticians and matrix theorists India ever produced.

We are sure that 28th IWMS will be a great success with the participation of prominent researchers from across the globe working in Statistics, Matrix Theory and allied subjects. The purpose of the Workshop is to stimulate research and, in an informal setting, to foster the interaction of researchers in the interface between statistics and matrix theory. The Workshop will provide a forum through which statisticians may be better informed of the latest developments and newest techniques in linear algebra and matrix theory and may exchange ideas with researchers from a wide variety of countries. As well as range of plenary speakers we are to strengthening the interactions between participants by organizing a range of minisymposia in various specialist areas.
Employment Opportunities around the world

Austria: Vienna
University of Vienna, Department of Statistics and Operations Research
Post-Doctoral Fellowship
https://jobs.imstat.org/job//50839623

Canada: Vancouver, BC
University of British Columbia
Instructor (Tenure-Track)
https://jobs.imstat.org/job//51664936

Canada: Toronto, ON
University of Toronto, Department of Statistics
Assistant Professor, Data Science
https://jobs.imstat.org/job//50990513

University of Toronto, Department of Statistical Sciences
Assistant Professor, Statistical Methods for Environmental Sciences
https://jobs.imstat.org/job//51093945

Canada: Toronto, ON
University of Toronto, Department of Statistical Sciences
Assistant Professor, Statistics with Applications in Biosciences
https://jobs.imstat.org/job//51093893

Canada: Toronto, ON
University of Toronto, Department of Statistical Sciences
Associate Professor or Professor - Regional Director of the Canadian Statistical Sciences Institute
https://jobs.imstat.org/job//51642289

Canada: Toronto, ON
University of Toronto Scarborough, Department of Computer & Mathematical Sciences
Assistant Professor, Teaching Stream, Statistics
https://jobs.imstat.org/job//51110207

Hong Kong: Kowloon
The Hong Kong University of Science and Technology, Department of Information Systems, Business Statistics and Operations Management
Non-tenure track teaching position in Statistics
https://jobs.imstat.org/job//51357143

Hong Kong: Shatin
The Chinese University of Hong Kong
Professor / Associate Professor / Assistant Professor [see display ad, below]
https://jobs.imstat.org/job//51506898

Applications are invited for:-

Department of Statistics
Professor / Associate Professor / Assistant Professor
(Ref. 190002AA)

The Department of Statistics is now inviting applications for a professoriate position. The appointment rank will be determined by the qualifications and experience of the successful candidate.

Applicants should have (i) a PhD degree in statistics or a related field; and (ii) high-quality research output and a strong teaching track record in all areas of statistics and Risk Management Science.

Appointment will normally be made on contract basis for up to three years initially commencing August 2020, which, subject to mutual agreement, may lead to longer-term appointment or substantiation later. Outstanding candidates with substantial experience for Professor rank may be considered for substantive appointment forthwith.

Review of applications will commence from January 16, 2020, and will continue until the post is filled.

Further information about the Department is available at http://www.sta.cuhk.edu.hk.

Application Procedure
Applicants please complete the online application form and upload a cover letter, a full curriculum vitae, a statement of research and teaching interests, and copies of up to five recent publications preferably by January 15, 2020. Applicants should also provide names, addresses and e-mail addresses of three referees to whom the applicants’ consent has been given for their providing references.

The University only accepts and considers applications submitted online for the post above. For more information and to apply online, please visit http://career.cuhk.edu.hk.
Employment Opportunities around the world

**Netherlands: Amsterdam**
Vrije Universiteit Amsterdam, Department of Mathematics
Assistant Professor(s) in Statistics
https://jobs.imstat.org/job/51087863

**Netherlands: Amsterdam**
University of Amsterdam, Faculty of Science, Korteweg-de Vries Institute for Mathematics
Two Tenure track positions in Mathematical Statistics as Assistant/Associate professor
https://jobs.imstat.org/job/51632984

**Netherlands: Tilburg**
Tilburg University
Assistant or Associate Professor
https://jobs.imstat.org/job/51596815

**New Zealand: Wellington**
Victoria University of Wellington
Lecturer in Computational Mathematics and Statistics
https://jobs.imstat.org/job/50901629

**Singapore: NUS**
Department of Statistics and Applied Probability, National University of Singapore
Faculty
https://jobs.imstat.org/job/51462934

**South Korea: Incheon**
University of Utah Asia Campus
Non-tenure-track 12-month position
https://jobs.imstat.org/job/51220335

**Taiwan: Taipei City**
Institute of Statistical Science, Academia Sinica
Tenure-Track Faculty Positions
[See ad details, right]  
https://jobs.imstat.org/job/49747539

**United Kingdom: Coventry**
University of Warwick
Professor
https://jobs.imstat.org/job/51674265

The Institute of Statistical Science, Academia Sinica, is pleased to invite applications for our tenure-track faculty positions. Academia Sinica, the most preeminent academic research institution in Taiwan, offers a secured research environment facilitated with rich collaboration opportunities as well as the freedom of conducting independent research. With a strong tradition of theoretical and interdisciplinary research, the Institute of Statistical Science is aiming for global excellence in mathematical statistics and various statistical applications.

Applications are invited for tenure-track appointments as Full/Associate/Assistant Research Fellows (equivalent to Full/Associate/Assistant Professors in Universities) in the Institute of Statistical Science, Academia Sinica, to commence on August 1, 2020 or as soon as possible thereafter. Applicants should possess a PhD degree in Statistics, Biostatistics, Computer Science, Data Science or related areas, and should submit: (1) a cover letter, (2) an up-to-date curriculum vita, (3) a detailed publication list, (4) a research proposal, (5) three letters of recommendation, (6) representative publications and/or technical reports and (7) advisers’ names of master and PhD degrees. Additional supporting materials such as transcripts for new PhD degree recipients may also be included. Electronic submissions are encouraged. Applications should be submitted to

**Dr. Yen-Tsung Huang, Chair of the Search Committee**
Institute of Statistical Science, Academia Sinica
128 Sec. 2 Academia Road, Taipei 11529,
Taiwan, R.O.C.
Fax: +886-2-27886833
Email: recruit@stat.sinica.edu.tw

Application materials should be received by **December 27, 2019** for consideration, but early submissions are encouraged.
United Kingdom: London
London School of Economics and Political Science (LSE)
Assistant Professor in Data Science
https://jobs.imstat.org/job/50877946

United States: Berkeley, CA
University of California, Berkeley
Assistant Teaching Professor
https://jobs.imstat.org/job/50921303

United States: Hayward, CA
California State University, East Bay
Assistant Professor
https://jobs.imstat.org/job/51026733

United States: Los Angeles, CA
University of California, Los Angeles
Tenure-Track/Tenured Position in Financial/Actuarial Mathematics
https://jobs.imstat.org/job/51026262

United States: Santa Barbara, CA
University of California, Santa Barbara
Two Faculty Positions - Statistics, Applied Probability, Data Science
https://jobs.imstat.org/job/51219467

United States: Stanford, CA
Stanford University, Department of Statistics
Stein Fellow in Statistics or Probability
https://jobs.imstat.org/job/51005468

United States: Riverside, CA
Department of Statistics, University of California, Riverside, USA
A Tenure-Track Assistant Teaching Professor
The Department of Statistics at the University of California, Riverside invites applications for a tenure-track Assistant Teaching Professor position (also termed Lecturer with Potential Security of Employment, LPSOE), beginning July 1, 2020 or even earlier. The details are available at the website: https://aprecruit.ucr.edu/apply/JPF01175
Evaluation of applications will begin on November 29, 2019 and will continue until the position is filled.
Employment Opportunities around the world

United States: Fort Collins, CO
Colorado State University, Department of Statistics
Assistant/Associate Professor
https://jobs.imstat.org/job//51338015

United States: Storrs, CT
University of Connecticut
Assistant/Associate/Full Professor of Operations and Information Management
https://jobs.imstat.org/job//51110660

United States: Storrs, CT
University of Connecticut
Full Professor and Cizik Chair in Manufacturing and Technology Management
https://jobs.imstat.org/job//51124882

United States: Newark, DE
The University of Delaware
Tenure Track Faculty Positions in Data Science, Assistant/Associate Professor
https://jobs.imstat.org/job//51562874

United States: Gainesville, FL
University of Florida, Department of Statistics
Tenure Track Assistant Professor in Statistics
https://jobs.imstat.org/job//51220070

United States: Athens, GA
University of Georgia, Department of Statistics
Assistant Professor
https://jobs.imstat.org/job//51043379

United States: Ames, IA
Iowa State University, Department of Statistics
Assistant Professor
https://jobs.imstat.org/job//50898039

United States: Ames, IA
Iowa State University
Assistant or Associate Professor in Forensic Statistics
https://jobs.imstat.org/job//51005357

United States: Boise, ID
Boise State University, Department of Mathematics
Assistant Professor Computational Applied Statistics or Mathematics
https://jobs.imstat.org/job//51004650

United States: Chicago, IL
The University of Chicago
Assistant Professor / Associate Professor / Professor, Data Science
https://jobs.imstat.org/job//51124469

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Check out our job ads:
jobs.imstat.org

::: Advertise current job opportunities for only $315 for 60 days ::: See https://jobs.imstat.org for details :::
United States: Chicago, IL
University of Illinois at Chicago
Assistant Professor/Associate Professor/Full Professor in Statistics - Tenure-Track/Tenured
https://jobs.imstat.org/job//51348789

United States: Chicago, IL
The University of Chicago
Kruskal Instructor
https://jobs.imstat.org/job//51560701

United States: Urbana, IL
University of Illinois at Urbana-Champaign
Assistant Professor, Actuarial Science
https://jobs.imstat.org/job//51268698

United States: Urbana, Champaign, IL
University of Illinois at Urbana-Champaign, Department of Statistics
Assistant Professor in Microbial Data Science
https://jobs.imstat.org/job//51025619

United States: Bloomington, IN
IUB School of Public Health
Multiple Tenure/Tenure-Track Positions Fall 2020
https://jobs.imstat.org/job//50839788

United States: Lawrence, KS
Department of Mathematics, University of Kansas
Assistant Professor
https://jobs.imstat.org/job//51005480

United States: Boston, MA
Boston University Questrom School of Business
Assistant Professor of Finance (FinTech)
https://jobs.imstat.org/job//51043550

United States: Boston, MA
Boston University, Questrom School of Business
Assistant Professor
https://jobs.imstat.org/job//51147423

United States: Boston, MA
Boston University, Questrom School of Business, Information Systems Department
Assistant Professor Position in FinTech
https://jobs.imstat.org/job//51144908

United States: Bridgewater, MA
Bridgewater State University
Assistant Professor - Statistics, Department of Mathematics
https://jobs.imstat.org/job//51005476

United States: Cambridge, MA
Massachusetts Institute of Technology (MIT)
Dual Appointment Faculty Positions
https://jobs.imstat.org/job//51493611

United States: Lowell, MA
University of Massachusetts Lowell
Assistant Professor of Mathematics - Mathematical Sciences (multiple positions)
https://jobs.imstat.org/job//50920297

United States: Ann Arbor, MI
University of Michigan Statistics
RTG Postdoctoral associate
https://jobs.imstat.org/job//37685748

United States: Minneapolis, MN
University of Minnesota, School of Statistics and Department of Psychology
Tenure Track Assistant Professor
https://jobs.imstat.org/job//50075025

United States: Minneapolis, MN
University of Minnesota, School of Statistics
Tenure Track Assistant Professor
https://jobs.imstat.org/job//50499570

United States: Springfield, MO
Missouri State University, Department of Mathematics
Tenure Track Assistant Professor of Statistics
https://jobs.imstat.org/job//50239456

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Cornell University’s School of Operations Research and Information Engineering (ORIE) seeks to fill multiple tenured/tenure-track faculty positions for its Ithaca campus. We welcome strong applicants in all areas of operations research and its interface with data science, in particular those in resonance with the Cornell College of Engineering Strategic Areas. A separate search in related areas is being conducted for our NYC campus within the Jacobs Technion-Cornell Institute. For the NYC position(s), we welcome strong applicants whose research aligns with one of the Jacobs Institute’s three research hubs (connective media, health technology, and urban technology).

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

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

A complete application should include a cover letter, CV, statements of teaching and research interests, statement of diversity, equity, and inclusion, sample publications, at least three reference letters, and, for junior applicants, a doctoral transcript. Applications for the Ithaca position should be submitted on AJO at https://academicjobsonline.org/ajo/jobs/14872. For the NYC-based position, applications should be submitted on AJO at https://academicjobsonline.org/ajo/jobs/14861.

We urge candidates to submit the required material as soon as possible. Applications will be accepted until the positions are filled.

ORIE and the College of Engineering at Cornell embrace diversity and seek candidates who can contribute to welcoming climates for students of all races and genders. Cornell University seeks to meet the needs of dual career couples, has a Dual Career program, and is a member of the Upstate New York Higher Education Recruitment Consortium to assist with dual career searches. Visit www.unyherc.org/home to see positions available in higher education in the upstate New York area.

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

Diversity and Inclusion are a part of Cornell’s heritage. We are a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities. We strongly encourage qualified women and minority candidates to apply.
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<th>United States: New York, NY</th>
<th>United States: Columbia, SC</th>
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<tr>
<td><strong>Columbia University, Department of Statistics</strong></td>
<td><strong>University of South Carolina, Department of Epidemiology and Biostatistics</strong></td>
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<td>Assistant Professor (Limited-term)</td>
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<td><strong>University of Texas at Dallas</strong></td>
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<tr>
<td>Assistant Professor (Tenure-Track)</td>
<td>Assistant Professor Positions Mathematical Sciences</td>
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<td><strong>University of Utah, Mathematics Department</strong></td>
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<tr>
<td>Distinguished Postdoctoral Fellow in Statistics</td>
<td>Tenure-Track/Career-Line/Postdoctoral</td>
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<th>United States: Charlottesville, VA</th>
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<td><strong>University of Virginia, Department of Statistics</strong></td>
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<tr>
<td>Assistant Professor</td>
<td>Associate/Full Professor and Associate Professor</td>
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<th>United States: Fairfax, VA</th>
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<td><strong>George Mason University</strong></td>
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<tr>
<td>Assistant Professor of Statistics (Tenure-track)</td>
<td>Faculty</td>
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<td><strong>Fred Hutch</strong></td>
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<td>Teaching Track Faculty Position, Heinz College</td>
<td>Assistant/Associate Faculty Position - Biostatistics</td>
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<td><strong>Brown University Data Science Initiative</strong></td>
<td><strong>University of Wisconsin, Madison, Department of Statistics</strong></td>
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<td>Assistant Professor of Statistics</td>
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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. Please submit your meeting details and any corrections to Elyse Gustafson: ✿erg@imstat.org

December 2019


January 2020


January 6–8: San Diego, CA, USA. International Conference on Health Policy Statistics (ICHPS) ✿w http://www2.amstat.org/meetings/ices/2020/index.cfm


February 2020


March 2020


April 2020

April 6–9: Warsaw, Poland. Statistical Methods and Artificial Intelligence ✿w https://sites.google.com/view/iwsmai

April 15–17: Geneva, Switzerland. Workshop on Statistical Data Editing ✿w https://reg.unog.ch/event/31130/

April 26–28: Gainesville, FL, USA. Conference on Applied Statistics in Agriculture and Natural Resources ✿w https://conference.ifas.ufl.edu/applied-stats/

May 2020

May 8–10: Las Vegas, NV, USA. Frontier Probability Days ✿w http://lechen.faculty.unlv.edu/FPD20/

May 8–10: Atlanta, GA, USA. 8th Workshop on Biostatistics and Bioinformatics ✿w https://math.gsu.edu/yich-uan/2020Workshop/

May 31–June 3: Carleton University, Ottawa, ON, Canada. 2020 SSC Annual Meeting w https://ssc.ca/en/meetings/2020-annual-meeting-ottawa

June 2020

June 1–26: Vancouver, BC, Canada. 2020 PIMS-CRM Probability Summer School w http://www.math.ubc.ca/Links/ssprob20/

June 2–5: Barcelona, Spain. 6th Stochastic Modeling Techniques and Data Analysis International Conference (SMTDA2020). Also featuring Demographics 2020 Workshop w www.smtda.net

June 3–6: Pittsburgh, PA, USA. Symposium on Data Science and Statistics w https://ww2.amstat.org/meetings/sdss/2020/


June 21–24 [tentative]: Anchorage, Alaska, USA. 2020 WNAR/IMS/JR (Japanese Region) meeting w http://wnar.org/page-18098


July 2020

July 5–11: Portoroz, Slovenia. 8th European Congress of Mathematics. w http://www.8ecm.si/


August 2020


August 23–27: Krakow, Poland. 41st Annual Conference of the ISCB w www.iscb2020.info

October 2020

October 1–3: Pittsburgh, PA, USA. Women in Statistics and Data Science Conference w https://ww2.amstat.org/meetings/wsdsc2020/

December 2020

December 15–17: Manipal, Karnataka, India. 28th International Workshop on Matrices and Statistics (IWMS 2020) w https://carams.in/events/international-workshop-on-matrices-and-statistics/

January 2021

January 5–8: Melbourne, Australia. IMS Asia Pacific Rim Meeting (IMS-APRM2021) w http://ims-aprm2021.com/

March 2021

March 14–17: Baltimore, MD, USA. ENAR Spring Meeting w http://www.enar.org/meetings/future.cfm
International Calendar continued

**July 2021**


**August 2021**

- August 7–12: Seattle, WA, USA. IMS Annual Meeting at JSM 2021 [w](http://www.amstat.org/ASA/Meetings/Joint-Statistical-Meetings.aspx)

**March 2022**

- March 27–30: Houston, TX, USA. ENAR Spring Meeting [w](http://www.enar.org/meetings/future.cfm)

**June 2022**


**July 2022**

- July/August [exact dates TBC]: London, UK. IMS Annual Meeting [w] TBC
- July 10–15: Riga, Latvia. XXXI International Biometric Conference (IBC 2022) [w](https://www.biometricsociety.org/meetings-events/ibcs/)

**August 2022**

- August 6–11: Washington DC, USA. JSM 2022 [w](http://www.amstat.org/ASA/Meetings/Joint-Statistical-Meetings.aspx)

**August 2023**

- August 5–10: Toronto, ON, Canada. IMS Annual Meeting at JSM 2023 [w](http://www.amstat.org/ASA/Meetings/Joint-Statistical-Meetings.aspx)

**August 2024**

- August 3–8: Portland, OR, USA. JSM 2024 [w](http://www.amstat.org/ASA/Meetings/Joint-Statistical-Meetings.aspx)
- August 12–16: Bochum, Germany. Bernoulli/IMS World Congress in Probability and Statistics [w] TBC

**August 2025**

- August 2–7: Nashville, TN, USA. IMS Annual Meeting at JSM 2025 [w](http://www.amstat.org/ASA/Meetings/Joint-Statistical-Meetings.aspx)

**August 2026**

- August 1–6: Boston, MA, USA. JSM 2026 [w](http://www.amstat.org/ASA/Meetings/Joint-Statistical-Meetings.aspx)

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**Are we missing something?** If you know of any statistics or probability meetings which aren’t listed here, please let us know. You can email the details to Elyse Gustafson at [erg@imstat.org](mailto:erg@imstat.org), or you can submit the details yourself at [https://www.imstat.org/ims-meeting-form/](https://www.imstat.org/ims-meeting-form/). We’ll list them here in the Bulletin, and on the IMS website too, at [imstat.org/meetings-calendar/](http://imstat.org/meetings-calendar/)
Membership and Subscription Information

Journals

Individual 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 $105. An additional $101 is added to the dues of members for each scientific journal selected ($63 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.

Individual and General Subscriptions

IMS Bulletin
The IMS Bulletin publishes articles and news of interest to IMS members and to statisticians and probabilists in general, as well as details of IMS meetings and an international calendar of statistical events. Views and opinions in editorials and articles are not to be understood as official expressions of the Institute’s policy unless so stated; publication does not necessarily imply endorsement in any way of the opinions expressed therein, and the IMS Bulletin and its publisher do not accept any responsibility for them. The IMS Bulletin is copyrighted and authors of individual articles may be asked to sign a copyright transfer to the IMS before publication.

The IMS Bulletin (ISSN 1544-1881) is published eight times per year, in January/February, March, April/May, June/July, August, September, October/November and December, by the Institute of Mathematical Statistics, 3163 Somerset Dr, Cleveland, Ohio 44122, USA. Periodicals postage paid at Cleveland, Ohio, and at additional mailing offices. Postmaster: Send address changes to 3163 Somerset Dr, Shaker Heights, OH 44122 USA or dues.subs@imstat.org. Copyright © 2019 by the Institute of Mathematical Statistics. Printed by The Sheridan Press, 450 Fame Avenue, Hanover, PA 17331, USA.

Information for Advertisers

General information: The IMS Bulletin and webpages are the official news organs of the Institute of Mathematical Statistics. The IMS Bulletin, established in 1972, is published 8 times per year. Print circulation is around 3,500 paper copies, and it is also free online in PDF format at https://www.imstat.org/ims-bulletin-archive/, posted online about two weeks before mailout (average downloads over 8,000). Subscription to the IMS Bulletin costs $115; call 877-557-4674 (US toll-free) or +1 216 295 2340 (international), or email dues.subs@imstat.org. The IMS website, https://imstat.org, established in 1996, receives over 30,000 visits per month.

Advertising job vacancies
A single 60-day online job posting costs just $315.00. We will also include the basic information about your job ad (position title, location, company name, job function and a link to the full ad) in the IMS Bulletin at no extra charge. See http://jobs.imstat.org

Advertising meetings, workshops and conferences
Meeting announcements here and on the IMS website at https://imstat.org/meetings-calendar/ are free. Submit your announcement at https://www.imstat.org/ims-meeting-form/

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Display advertising allows for placement of camera-ready ads for journals, books, software, etc. A camera-ready ad should be sent as a grayscale PDF/EPS with all fonts embedded. Email your advert to Audrey Weiss, IMS Advertising Coordinator admin@imstat.org or see https://imstat.org/advertise

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Deadlines and Mail Dates for IMS Bulletin

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The ANNALS of
STATISTICS

AN OFFICIAL JOURNAL OF THE
INSTITUTE OF MATHEMATICAL STATISTICS

Vol. 47, No. 6—December 2019

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