Bernoulli News

Newsletter of the Bernoulli Society for Mathematical Statistics and Probability

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A VIEW FROM THE PRESIDENT

Dear Members of the Bernoulli Society,

It gives me great pleasure to congratulate the three inaugural Cox Medalists, announced recently: Richard Samworth (Cambridge), Eric Tchetgen Tchetgen (UPenn), and Nancy Zhang (UPenn). Through their deep and innovative contributions, these three colleagues have moved our field and its substantive application forward, and I'm sure we can expect yet more great things to come from them! I believe they are very deserving winners and indeed very fitting ambassadors for the Cox Medal, which promises to evolve into one of our discipline's premier honours. I'm grateful to the selection and search committees for their outstanding work, and especially to Peter McCullagh who chaired the search committee on behalf of the Bernoulli Society, and to Richard Davis and Judith Rousseau who represented the Bernoulli Society on the search committee. Let me remind our readers here that the Cox Medals are awarded every three years by six major statistical societies (Bernoulli Society, ASA, IBS, IMS, ISI, RSS) in equal partnership, and were an initiative spearheaded by the Bernoulli Society (you can read more in the May 2024 "Word from the President", https://www.bernoullisociety.org/files/bnews_31_1.pdf).

A second major award was recently announced, and I wish to congratulate Po-Ling Loh[8] (Cambridge) who was very deservingly awarded the Ethel Newbold Prize. Po-Ling will deliver the Newbold Prize lecture at the ISI World Statistics Congress this October in The Hague. Let me also congratulate Minmin Wang (University of Sussex) for being awarded the 2025 Itô Prize for her recent work published in SPA – she will deliver the Itô Lecture at the upcoming SPA conference in Wrocław this July. I very much look forward to the pleasure of attending both these special lectures!

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Deadline for the next issue: **30 September, 2025**
Send contributions to: *bojana.milosevic@matf.bg.ac.rs*

A View from the President (continued from front cover)

The summer of 2025, as any odd year summer, is a transitionary year for our Society: Nancy Reid will take over as President, and Eulalia Vares will become President-Elect. I was thrilled that Eulalia was nominated (and accepted!) to serve from our Society's highest office, as I was with Nancy before her. I thank them both wholeheartedly for their willingness to take on this important role. That the office moves between continents and genders is also a wonderful sign. The succession ceremony, featuring the handover of the Bernoulli Book, will take place on July 14th, during our General Assembly at the SPA meeting in Wroclaw (exceptionally due to the unusual timing of the ISI WSC). I hope to see many of you there!

Along with the Presidency, there is also a rotation in Council. We welcome six new council members who will serve for the term: 2025-2029: Heather Battey, Jian Ding, Florencia Leonardi, Victor Rivero, Amandine Veber, Johanna Ziegel. My sincere thanks go to the outgoing council members, David Aldous, Susanne Ditlevsen, Jean-Marie Dufour, Marie-Colette van Lieshout, Rolando Rebolledo, and Aad van der Vaart for their valuable service. Eulalia's ascent to the office of President-Elect vacates a seat in Council, and I thank Matias Cattaneo (Princeton) who has agreed to step in and serve a two-year term as council member. I'm grateful to the nomination committee for their excellent work, and especially to Nancy Reid for chairing it. Further committees are being renewed this year, including the $\mathrm{C}(\mathrm{PS})^2$ and the ERC (see details in this issue).

Looking ahead to 2026, I'm very pleased that there will be two further major Bernoulli Conferences in addition to the 45th SPA meeting in Ithaca, US (June 15-19): the 17th CLAPEM will take place in Montevideo, Uruguay (March 2-6, 2026) and the 35th EMS in Lugano, Switzerland (August 24-28, 2026).

I would like to add some context regarding the EMS conference series. Like the SPA series, the EMS predates the Bernoulli Society – indeed, the effort to consolidate and regularise these two series constituted a major impetus for the birth of the Bernoulli Society. When one consults the list of past EMS meetings, one observes that their frequency appears unpredictable. There are historical reasons for this, at least in the more distant past, but in the last three decades, at least, this has had more to do with World Congresses. Namely, avoiding having an EMS in those odd years when the ISI WSC takes place in Europe, and in those even years when there is a Bernoulli-IMS World Congress. The result is a complex pattern with EMS sometimes taking place in consecutive years, other times two years apart (the default intention), and yet other times three year apart. This makes it difficult to plan well ahead of time and maintain a consistent workflow with predictable deadlines, seeing as the EMS is organised by the ERC which itself has a two-year cycle. I've had the chance to have several very useful brainstorming discussions on this issue in the last year with our EC, Council, and ERC, and finally even with IMS and ISI leadership (the latter two regarding how to best avoid clashes).

One thing emerged as a clear pattern: everybody agreed that it would be a good idea to "tidy things up" and regularise the frequency of the EMS, thus making streamlining its organisation. In collaboration with outgoing and incoming ERC chairs, Sonia Petrone and Malgorzata Bogdan, and with the agreement of the ERC, a new strategy was devised, and will hopefully take effect as of 2027: that the EMS meetings should become regular, and always take place on an odd year. This avoids (i) clashes with Bernoulli-IMS World Congresses, and (ii) possible clashes with IMS annual meetings (in odd years IMS annual meetings happen at JSM in North America). The only possible conflict is when an ISI WSC happens in Europe. This used to occur rather frequently in the past, but the new policy is for the ISI WSC to rotate between the continents. Roughly once in a decade, therefore, there will be a clash, and we have about a ten-year horizon to prepare for when this happens seeing as the next ISI WSC happens this year in The Hague. I have liaised with ISI to try and come up with creative ideas. For example, one can imagine that when the ISI WSC comes to Europe, the Bernoulli Society could be given more space in the programme, and more leeway to select its sessions (a "mini EMS" embedded within the ISI WSC, in the spirit of the IMS annual meeting being imbedded in JSM?). We will be exploring this and other options in the immediate future. For the moment, let me highlight the call for proposals for an EMS in 2027 featured in this issue of Bernoulli News!

In my last "Word from the President", I would like to revisit a sentence from my first one: it has been a great honour to have served our community from this distinguished post, and I have done my best to rise to the occasion. I have been fortunate to serve alongside many wonderful colleagues in the EC, Council, and Standing Committees. I want to particularly thank Adam Jakubowski and Nancy Reid, with whom we worked harmoniously as a "Presidential trio", and our Secretary, Kamila Siuda, who has consistently provided invaluable support, not just to me, but to all our officers and chairs. I'm delighted that Nancy and Eulalia will be our next two presidents, and I wish them the very best. Our Society is in good hands!

Victor M. Panaretos
President of the Bernoulli Society
Lausanne, Switzerland

News from the Bernoulli Society

New President-Elect and Council Members of the Bernoulli Society

Bernoulli Society has nominated a new President-Elect and several new council members as follows. The Nomination Committee, chaired by the President-Elect Nancy Reid, sent their report to the Scientific Secretary in July 2024 with the following list of candidates:

- President-Elect: Prof. Maria Eulalia Vares (Federal University of Rio de Janeiro), commencing in August 2027 in succession to the next President Nancy Reid.

Six ordinary members of the Council for a four-year term from August 2025 to July 2029:

- Victor Rivero (CIMAT, Mexico)
- Heather Battey (Imperial College, United Kingdom)
- Jian Ding (Peking University, China)
- Amandine Veber (Univ. Paris Cité, France)
- Florencia Leonardi (Universidade de São Paulo, Brasil)
- Johanna Ziegel (ETH Zurich Switzerland)

The Scientific Secretary Jeff Yao submitted the report of the Nomination Committee to the ordinary members of the Council for additional suggestions. No further nominations were made. The Executive Committee and the Council approved the above nominations in November 2024. According to Section 9 of the Statutes, these candidates are declared elected without vote, pending final approval at the next General Assembly in July 2025. Since the President-Elect nominee, Prof. Maria Eularia Vares, is a current member of the Council for the period 2023-2027, the Executive Committee met on July 3, 2024, and agreed to appoint Professor Cattaneo, Princeton University, USA, to a two-year term, 2025 – 2027, to replace the vacancy created by Professor Vares becoming President- Elect.

On behalf of the Bernoulli Society
Jeff Yao
Scientific Secretary

The European Meeting of Statisticians – Call for proposals

Bernoulli announces a call for proposals for the European Meeting of Statisticians (EMS) 2027 and 2029. The European Meetings of Statisticians are central events for statistics and probability in Europe and worldwide. The meetings should be the natural forum where all European statisticians and probabilists meet to exchange ideas and learn about the latest scientific developments. The EMS is typically held in June or July at a time of year that helps maximize attendance, although timing may vary depending on the local circumstances of the chosen venue. The venue should be a location accessible to a large proportion of Bernoulli membership and European researchers.

Anyone interested in hosting either EMS 2027 or EMS 2029 should contact secretariat@bernoullisociety.org who can provide detailed information for guidance on what is required. Proposals are expected to be finalized by June 30, 2025.

New ISI Membership System

We are pleased to inform you that ISI has launched a new membership system – Odoo. This new platform replaces the former ISI Webshop, which is no longer used. You can access the new system via the ISI website or directly at https://isi-portal.odoo.com. Detailed instructions on how to access and use the platform can be found here: How to Use the Membership System. If you have any problems, please contact isimembership@cbs.nl.

Allesia Caponera
e-Briefs
Rome

2025 General Assembly and Transfer of the Bernoulli Book

Our next General Assembly – including the transfer of the Bernoulli book and the introduction of the new Executive Committee and Council – will take place on July 14 at 12:00 CEST during the SPA 2025 meeting in Wroclaw, Poland. We hope to see many of you there!

Allesia Caponera
e-Briefs
Rome

Sad news

It is with great sadness that we learned of the death of Professor Thomas G. Kurtz. He passed away on April 19, 2025. The Bernoulli Society extends its sincere condolences to his family.

Allesia Caponera
e-Briefs
Rome

Awards and Prizes

The winners of the David Cox Medal for Statistics

Three leading mid-career statisticians have been announced the winners of the David Cox Medal for Statistics, which has been awarded for the first time in 2025 to commemorate the work of the late world-leading statistician and former Royal Statistical Society president, Sir David Cox.

The international prize, which we jointly award with the American Statistical Association, the International Biometric Society, the Institute of Mathematical Statistics, the International Statistical Institute, and the Royal Statistical Society, was established to recognise mid-career researchers in the fields of statistical theory, methodology and applications whose body of work is original, with conceptual depth and novelty, and which moves the field or a substantive application area forward.

The winners are:

Prof Richard Samworth of the University of Cambridge for contributions to methodological and theoretical statistics, making significant contributions to numerous statistical areas over the past decades, including shape-constrained modelling and change-point analysis. Richard has made numerous seminal contributions including to shape-constrained modelling, high dimensional statistics, change-point analysis and nonparametric classification. These important and broad areas of statistical science encompass the majority of the prevailing topics where statistics has focussed over the past two decades, and Richard has been at the forefront from the outset. In addition to his stellar research contributions, Richard has mentored with distinction many students and young researchers , as well as serving the profession tirelessly through journal editorships and other contributions to multiple statistical societies.

Prof Eric Tchetgen Tchetgen of the University of Pennsylvania for his outstanding contributions to the development of pioneering statistical theory and methods that have reshaped our understanding and practice of causal inference. Eric's noteworthy contributions recognised by this award include the development of Proximal Causal Inference and groundbreaking contributions to instrumental variable methodology, two fundamental analytic frameworks for credible causal inference in the face of intractable confounding. Beyond his groundbreaking works on proximal inference and instrumental variables, Eric has made seminal contributions to multiple other areas, including interference, mediation analysis, missing data, conformal inference, survival analysis, higher order influence functions, and data fusion.

Prof Nancy Zhang, also of the University of Pennsylvania, for her contributions to statistical genomics and its application in biomedical research. Her work has advanced the analysis of high-dimensional biological data through the development of methods for change-point detection and false positive control, noise reduction in single-cell RNA sequencing, single cell

and spatial omic data integration, and cell type deconvolution in bulk tissue analysis. She has also made significant contributions to understanding cancer genome evolution through the development of allele-specific DNA copy number estimation methods that reveal intratumor heterogeneity. Through these contributions, Nancy has demonstrated exceptional leadership in bridging statistical innovation with real-world biomedical challenges, significantly influencing both the statistical and life sciences communities.

Professor Peter McCullagh, chair of the Prize Committee, said: 'Sir David Cox's work led to great advancements in the field, so it feels fitting to celebrate those carrying on his great work in moving the profession and our understanding of statistics forward. Eric, Nancy and Richard are to be wholeheartedly congratulated for their contributions that have reshaped our understanding across the discipline.'

The winner of Ethel Newbold Prize

We are pleased to announce that the Ethel Newbold Prize 2025 has been awarded to Po-Ling Loh from the Department of Pure Mathematics and Mathematical Statistics (DPMMS), University of Cambridge.

Po-Ling is a Professor of Statistics in the Statistical Laboratory at DPMMS and a Fellow of St John's College. She joined Cambridge in 2021, following academic appointments at the University of Pennsylvania, the University of Wisconsin–Madison, and Columbia University. She earned her PhD in Statistics from UC Berkeley in 2014.

Her research interests include high-dimensional statistics, robustness, and differential privacy. She has received several prestigious awards, including the NSF CAREER Award, ARO Young Investigator Award, IMS Tweedie New Researcher Award, Bernoulli Society New Researcher Award, and the Philip Leverhulme Prize. She is also a Hertz Fellow.

As part of the award, Po-Ling will be invited to give a talk at the upcoming Bernoulli World Congress, which will take place in The Hague in October 2025.

The winner of Itô Prize

We are delighted to announce that the winner of the 2025 Itô Prize is Minmin Wang (University of Sussex, UK), for the paper Stable trees as mixings of inhomogeneous continuum random trees, published in Stochastic Processes and their Applications. Volume 175, August 2024. More details about this award can be found https://www.bernoullisociety.org/prizes?id=157. An interview with Minmin can be found at page 9

Bernoulli Society New Researcher Award 2026–Call for applications

The Bernoulli Society welcomes applications to the New Researcher Award 2025. Each awardee shall deliver a talk at a special invited session during the Conference on 45th Stochastic Processes and their Applications (SPA) to be held in Ithaca, New York, USA, June 15-19, 2026, and will receive a funding up to 1000 EUR to offset travel and other expenses. Bernoulli News will publish their pictures and a paragraph about their work.

Eligible candidates are active researchers in Probability Theory who obtained the PhD degree on or after June 30th, 2020, and who are regular members of the Bernoulli Society. An extension may be given to those having had disruptions after receiving the PhD, such as parenthood. Diversity among the awardees is one of the Society's goals, and therefore women and members of under- represented groups are particularly encouraged to apply.

Candidates should apply through the web form here and send the required documents to the e-mail address indicated in the form on the website https://www.bernoullisociety.org/prizes/267-bernoulli-society-new-researcher-award. The deadline for application is June 30th, 2025.

Bernoulli Society and Royal Statistical Society David G. Kendall Award for Young Researchers – Call for nominations

The Award Committee invites nominations for the Bernoulli Society-Royal Statistical Society David G. Kendall Award for Young Researchers. This biennial award aims to recognize excellent research in Mathematical Statistics and in Probability Theory. The award is in honor of David G. Kendall, who was the first president of the Bernoulli Society, and was awarded the Guy Medal in Silver (1955) and in Gold (1981) of the RSS.

The 2025 edition of the award is organized for young researchers in Probability Theory. The award consists of the prize amount of 2000€ together with an award certificate. The winner will deliver the Kendall Lecture during the Bernoulli Society conferences in 2026. The award should be used to cover the expenses of attendance at this conference.

Nominees should be researchers with significant achievements and great potential in their research field who obtained their PhD after January 1st, 2017(up to a year's credit will be given for each year taken out due to parental circumstances since receiving the PhD at the committee's discretion). Nominees must be members of either the Bernoulli Society or the Royal Statistical Society. We particularly encourage nominations from under-represented groups. Nominations should be communicated to the Award Committee by sending an email to secretariat@bernoullisociety.org and be signed by two members of the BS or the RSS. They must include the name, affiliation, and brief curriculum vitae (including a list of publications) of the nominee, a statement of no more than 100 words summarising the case for nomination, a list of the best three articles, and a review of no more than two pages of the nominee's research contributions. Self-nominations are permitted but must still be signed by two other BS or RSS members. One person may nominate multiple candidates, but where that happens they must also provide their own personal ranking of their nominees to the Award Committee.

The members of the 2025 Award Committee are:

- Jere Koskela (RSS, Chair)
- Sourav Chatterjee (BS)
- Xue-Mei Li (BS)
- Minmin Wang (RSS)

The nomination process is open from 1 April 2025 and closes on 30 June 2025. The award recipient will be announced in December 2025.

New Executive Members in the Bernoulli Society

The new chair of $C(PS)^2$

Short bio: Matthias Faes is a Belgian mechanical engineer and a full professor at TU Dortmund University, where he has been leading the Chair of Reliability Engineering since February 2022. He completed his Ph.D. at KU Leuven, where his research focused on inverse methods for uncertainty quantification with limited data. His research lies at the intersection of uncertainty quantification, structural reliability, and robust engineering design. His work spans advanced numerical methods, imprecise probability theory, reliability-based design optimization, and Bayesian model updating. He has received numerous prestigious awards for his scientific contributions, including the ECCOMAS Ph.D. Award (2018), the ISIPTA IJAR Young Researcher Award (2019), and the EASD Junior Research Prize in Structural Dynamics (2023). In 2023, he was also listed among the world's top 2% most-cited scientists by Stanford University. In addition to his research, Matthias actively serves the academic community as an associate editor for leading journals such as Reliability Engineering & System Safety, Mechanical Systems and Signal Processing, and the ASCE/ASME Journal of Risk and Uncertainty in Engineering Systems. His academic profile reflects a rare combination of deep theoretical insight, practical relevance, and international recognition.

Vision of the Job: My vision is to help the $C(PS)^2$ committee focus on one of the most important challenges we face today: making informed, 'optimal' decisions in a world that is changing at an increasing pace. From climate, security, autonomous systems, and robotics to the geopolitical shockwaves of 2025, it is clear that decision-making must increasingly rely on the recognition that it takes place under uncertain conditions—this will be at the core of our work.

The new chair of European Regional Committee

Short bio: Małgorzata Bogdan is a Professor of Statistics at the University of Wrocław, Poland. She earned her PhD from the Wrocław University of Science and Technology and later completed a postdoctoral fellowship at the University of Washington, supported by the Foundation for Polish Science. She also spent two years as a Visiting Assistant Professor at Purdue University. Additionally, she held a Fulbright Scholarship at Stanford University and worked for two years as a Professor of Statistics at Lund University, Sweden. Her research focuses on variable selection in high-dimensional settings, Bayesian model selection, and statistical applications in genomics, medicine, finance, and astronomy. She is widely recognized for developing the modified Bayesian Information Criterion (mBIC) and the Sorted L-One Penalized Estimator (SLOPE), both instrumental in identifying sparse models—particularly in genome-wide association studies and sparse portfolio construction. Her work successfully bridges theoretical innovation with practical applications involving complex, large-scale data. Małgorzata is also a dedicated mentor, having supervised numerous graduate students who have gone on to successful academic careers. In 2020, she received the Hugo Steinhaus Award from the Polish Mathematical Society—one of its highest honors—in recognition of her lifetime contributions to the application of mathematics. In 2024, she was named a Fellow of the Institute of Mathematical Statistics (IMS), honoring her influential contributions to high-dimensional statistics, integration of Bayesian and frequentist methods, and leadership in international collaborations.

Vision of the Job: It is a great honor to take on this position. My vision is to strengthen collaboration across Europe under the auspices of the Bernoulli Society, particularly through joint programs and summer schools aimed at educating the next generation of statisticians. I also hope to foster deeper discussions about the identity of statistics in the era of rapid advancements in machine learning.

A Conversation with Nancy Reid

Moderated by Editor

Nancy Reid is a Professor of Statistics at the University of Toronto, where she has been a faculty member since 1986 and served as Department Chair from 1997 to 2002. She holds degrees from the University of Waterloo, the University of British Columbia, and Stanford University, and completed a postdoctoral fellowship at Imperial College London. She is known for foundational work in conditional inference, higher-order asymptotics, composite likelihood, and Bayesian methods. Nancy has published over 100 papers and five books. Her contributions have been recognized with numerous honors, including Fellowship in the Royal Society, the Royal Society of Canada, and the Royal Statistical Society, as well as the COPSS Distinguished Achievement Award and the Guy Medal in Gold.

B.M. Your second year as President-Elect of the Bernoulli Society is coming to an end, and very soon you will assume the role of President. How do you reflect on your tenure so far? What were your initial impressions when you first took on the role, and how have they evolved over the past two years? As you prepare to take on the presidency, what do you see as the major challenges ahead? Has your perspective on the role changed since you began this journey?

N.R. There are always challenges in keeping professional societies vibrant and relevant; the Bernoullis Society seems in very good shape, but keeping current members and encouraging new members always needs attention. It's a particular but welcome challenge for me to become more closely acquainted with the landscape for probability and statistics in Europe, and at the same time to ensure that the Bernoulli Society has an international impact. I've very much enjoyed becoming familiar with the many contributions to the society from colleagues, such as yourself, and many others. This volunteer work competes for many demands on peoples' time, but it is important and valuable.

B.M. Your scientific contributions are truly impressive. How important do you think it is to be able to switch topics and work in a multidisciplinary environment, especially with the current advancements in AI? Do you believe that collaborations between computer scientists and statisticians should be strengthened to maximize scientific output?

Additionally, on a personal level, are you concerned about the changes that AI might bring to the world around us?

N.R. Collaborations with computer science seem to me very promising for our field – there is a lot of excitement and energy in computer science, and many impressive achievements. At the same time, statisticians are well-trained to think about aspects of data science that are important for applications, and to have some healthy skepticism about trends, so I think we bring a lot to the table.

I think everyone is concerned about the changes that AI may bring, and it already has made a difference in the classroom, but I don't have any particular insight into this big question.

B.M. Reflecting on your experience, how do you perceive the current state of gender equality in our field? How has being a woman shaped your professional journey—both in terms of challenges and sources of motivation? I've read your article "The Whole Women Thing," which offers a very personal and thoughtful perspective. In light of that, do you feel that the ongoing efforts toward gender equality are producing meaningful change? Where do you see progress, and where is more work still needed?

N.R. Personally, some parts of my career were harder because I'm a woman — but some were actually easier. I mentioned this in the article you referred to, because there was support throughout my career for encouraging women in science. I benefited from that, especially at the leadership level.

But on a personal level, things like being heard in meetings, or often being the only woman in the room, were real challenges — even if I tried to ignore them at the time. So yes, there were social and interpersonal dynamics that made things harder, but also moments

when being a woman opened doors. Today, it's hard for me to fully judge, since I'm more senior, but our department has many women, and we don't need to think too hard about gender when hiring — though I'm still the one reminding people not to forget about it.

There are many areas where women's experiences differ — one simple example is student evaluations. In North America, students give anonymous feedback, and evaluations of women tend to be more personal, more critical, and sometimes focused on irrelevant things. It's just one example, but gender differences shows up in many areas. So I think we always need to stay aware of it. It's a complex issue, and we could talk about it for hours.

B.M. So you think that real progress has been made, right?

N.R. Oh yes, absolutely. Definitely. Over the course of my career, there's been a significant increase in the number of women at all levels, including in leadership roles. Of course, many still have stories of feeling overlooked or dismissed — that hasn't gone away entirely — but there are so many more women now.

When I was starting out, I actually knew almost all the women in statistics across Europe and North America — there were that few of us. Today, that would be completely impossible.

B.M. So where do you think there's still a lot of room for improvement? If you had to pick one thing that feels like it hasn't changed at all in the past 20 years — what would that be?

N.R. I wouldn't say there's an area where absolutely nothing has improved — but progress really varies depending on local context. Each university can be quite different, and daily experiences matter a lot. Most women still have stories of moments where they felt treated differently. That may never fully disappear, but keeping the conversation going helps prevent regression.

One area that clearly needs attention is computer science — it remains extremely gender-imbalanced, with aspects of culture that are concerning. In contrast, statistics has a better gender balance, and biostatistics even more so, where many women seem to feel a stronger connection, perhaps due to the nature of the work.

B.M.I believe that role models are important and that dreaming big, potentially guided by our "hidden star," can lead to higher achievements. Did you have role models when you started your career?

N.R. At my undergraduate university, there were more female professors than usual for the time — in statistics, though not in mathematics — and in hindsight, they may have served as role models, even if I didn't think of them that way at the time.

What I did have were important mentors — almost all men — who encouraged me throughout my studies. My undergraduate professor suggested I do a master's, which opened up career paths I hadn't considered. Then my master's supervisor encouraged me to apply for a PhD in the US — again, something I wouldn't have thought of on my own. That support made a huge difference.

B.M. Having said all this, what is your advice for young statisticians?

N.R. I'd tell young statisticians to keep an open mind about their path. Many feel pressure to follow a kind of checklist for success — but being too rigid can mean missing out on life-changing opportunities. For example, I took a postdoc at a time when statisticians typically didn't, and it turned out to be one of the best decisions I made.

Another piece of advice: as statisticians, we're trained to be sceptical, but in interdisciplinary environments, that scepticism can backfire. Being overly critical of each other, when we're being compared with other disciplines, can undermine the perception of our field. A more supportive, balanced approach is not only healthier but also strategically wiser as we work more collaboratively across fields.

A conversation with Minmin Wang

Moderated by Editor

Minmin Wang is an Associate Professor in the Department of Mathematics at the University of Sussex, where she has been since 2019. Her research focuses on combinatorial probability, random trees and graphs, scaling limits, and processes such as branching, fragmentation, and coalescence. She earned her PhD in Paris under the supervision of Nicolas Broutin and Thomas Duquesne and held postdoctoral positions in Buenos Aires and Bath. Her work is supported by an EPSRC New Investigator grant (2023–2025), and she serves on the editorial board of the Applied Probability Trust and the Applied Probability Section of the Royal Statistical Society. Wang has published extensively in top journals, with recent highlights including work on random intersection graphs, Brownian CRTs, and Lévy trees. She currently supervises a postdoc and a PhD student at Sussex.

B.M. When you were working on this paper, did you anticipate that it might receive such recognition? How did you feel when you received the letter informing you that you were this year's winner?

M.W. Honestly, this paper feels quite personal to me. I first came across the problem more than a decade ago, right at the start of my PhD, thanks to my supervisor at the time, Thomas Duquesne. Even though I didn't work on it actively for a while, it was always kind of in the back of my mind. Then, in 2021, I had a breakthrough idea while working on something else entirely. It took another couple of years to write it up and get it published. When it finally came out in SPA, I mostly just felt relieved and satisfied to see it done. So when the prize was announced, it really felt like a lovely and unexpected bonus.

And yes—I was genuinely thrilled when I got the letter. I think I replied within five minutes! Hopefully that's some kind of record.

B.M. What are you currently working on, and do you see your Itô Prize-winning research evolving further in your future projects?

M.W. I'm working on a range of questions on random graphs and trees. Some of them are related to the research I did in the SPA paper. So hopefully there'll be some interesting applications.

B.M. In your view, what are the next big questions or promising directions in the field of stochastic processes?

M.W. It's hard to speak for the whole field, but I can say something from the angle of my own work. I tend to use tools from stochastic processes to tackle combinatorial problems. Things like the Brownian CRT or the connections between Erdős–Rényi graphs and Brownian motion have inspired and deeply influenced my research; recent progress in areas like random planar maps has been very exciting too. From a selfish point of view, I'm really looking forward to the next "big idea" in this area—something that could open up new paths in my own research.

B.M. What advice would you give to young researchers entering the field of probability and stochastic processes today?

M.W. Oh wow, am I at the stage where I'm supposed to be giving advice already? I still feel like I'm figuring things out myself! But since I'm given this rare opportunity to speak to the community, I'll share something I'm trying to improve on too. One of the great things about mathematics is that your work is meant to be understood and checked by others—right down to the smallest detail. So while coming up with new ideas is great, I think it's just as important to take care in how you present them. Clarity really goes a long way.

Forthcoming Conferences, Meetings and Workshops, and Calendar of Events

Organized, Sponsored and Co-Sponsored by

Bernoulli Society for Mathematical Statistics and Probability

The 44th Conference on Stochastic Processes and their Applications

The 44th Conference on Stochastic Processes and their Applications will take place in Wrocław, Poland, from July 14 to 18, 2025. Registration and the conference webpage can be found at https://spa.pwr.edu.pl/. The conference is jointly organized by the Mathematical Institute of the University of Wrocław and the Faculty of Pure and Applied Mathematics at Wrocław University of Science and Technology.

The following distinguished speakers will deliver plenary talks:

- Giuseppe Cannizzaro (University of Warwick), Doeblin Lecture
- Benoit Collins (Kyoto University)
- Alessandra Faggionato (La Sapienza), Doob Lecture
- Thomas Hutchcroft (California Institute of Technology)
- Roberto Imbuzeiro Oliveira (IMPA)
- Tomasz Komorowski (Polish Academy of Sciences and UMCS)
- Florence Merlevède (University of Paris-Est Marne-la-Vallée), Lévy Lecture
- Ron Peled (Tel Aviv University)
- Nicolas Perkowski (FU Berlin)
- Justin Salez (Paris Dauphine University)
- Sunder Sethuraman (University of Arizona), Schramm Lecture
- Cristina Toninelli (Paris Dauphine University and CNRS)
- Minmin Wang (University of Sussex), Itô Lecture

We look forward to welcoming you to Wrocław!

Marek Arendarczyk, Krzysztof Bogdan, Krzysztof Dębicki, Piotr Dyszewski, Tomasz Grzywny, Kamil Kaleta, and Paweł Lorek

Local Organizing Committee

24th European Young Statisticians Meeting

The 24th European Young Statisticians Meeting will take place in July 2025, hosted by Collegio Carlo Alberto in Turin, Italy. The EYSMs are held every two years under the auspices of the European Regional Committee of the Bernoulli Society. The aim is to provide a scientific forum for the next generation of European researchers in probability theory and statistics. Participation is by invitation only. The International Organizing Committee (IOC) is responsible for selecting and inviting participants according to the EYSM guidelines. Keynote talks will be given by Mark Podolskij (Université du Luxembourg), Judith Rousseau (Université Paris Dauphine and University of Oxford) and Francesco Stingo (Università degli Studi di Firenze).

Extreme Value Analysis

The 14th International Conference on Extreme Value Analysis will be hosted by the University of North Carolina at Chapel Hill, USA, from June 23 to 27, 2025. Topics include all aspects of extreme value analysis, probabilistic and statistical models and their applications. Activities include plenary, invited and contributed paper sessions, a poster competition, a student paper competition, and a data analysis challenge. There will also be a short course (June 22), with presentations by Anne Sabourin (Université Paris Cité, France) and Anthony Davison (EPFL, Switzerland).

The 28th Brazilian School of Probability

The 28th Brazilian School of Probability will take place at Belo Horizonte, Brazil in August 4-8, 2025. It will feature mini-courses by Tom Hutchcroft and Antonio Auffinger and also 8 plenary lectures. For more information, visit our website at https://sites.google.com/view/ebp2025.

Held annually since 1997, the school is by now a quite traditional international meeting and one of the leading events in Probability in South America. It has considerably contributed to the strengthening of this research area in Brazil and in the region, bringing together world-leading experts as well as young researchers and students. It also provides opportunities for selected participants (other than the invited speakers) to present short oral communications and posters.

This year's edition is organized by UFMG and IMPA and is funded by the Brazilian agencies CAPES, CNPq, INCTMat, and FAPEMIG.

Latin American Congress of Probability and Mathematical Statistics

The Latin American Congress of Probability and Mathematical Statistics (CLAPEM), promoted by the Latin American Society of Probability and Mathematical Statistics (SLAPEM) and the Latin American Regional Committee of the Bernoulli Society, is the main event in these fields in the region. It occurs every two/three years and attracts researchers and students from the most important Latin American centers. It has already been organized in Venezuela, Uruguay, Mexico, Brazil, Chile, Argentina, Cuba, Peru, Colombia, and Costa Rica.

The next edition will be held on March 2-6, 2026, in Montevideo, Uruguay at Facultad de Ingeniería of the Universidad de la República. More detauls are available at https://clapem17.cmat.edu.uy/.

Other Events

21st International Conference Applied Statistics

The 21st International Conference on Applied Statistics will be held from September 21 to 23, 2025, in Koper/Capodistria, Slovenia. The Applied Statistics International Conference brings together researchers and practitioners from around the world working on various aspects of data analysis, data science, and statistics to present their latest research and learn from each other. The scientific program at Applied Statistics includes invited talks, as well as oral and poster presentations of accepted abstracts. The two-day main conference (Monday and Tuesday) will be preceded by a workshop day (Sunday). More information can be found at https://as.mf.uni-lj.si/.

Calendar of Events

This calendar lists all meetings that have been announced in this and previous issues of *Bernoulli News* together with forthcoming meetings organized under the auspices of the Bernoulli Society or one of its Regional Committees (marked by).

A more comprehensive calendar of events is available on the BS Website `www.bernoulli-society.org/index.php/meetings`.

June 2025

- June 23–27 (2025), *Extreme Value Analysis*; Chapel Hill, USA.
- June 23-27 (2025), *Workshop Accelerating Statistical Inference and Experimental Design with Machine Learning*; Cambridge, UK

July 2025

- July 14–18 (2025), *Stochastic Processes and their Applications* ; Wroclav, Poland.
- July 21-25 (2025), *European Young Statisticians Meeting*;Turin, Italy

August 2025

- August 4-8 (2025), *The 28th Brazilian School of Probability*; Belo Horizonte, Minas Gerais, Brazil

September 2025

- September 21–23 (2025), *Applied Statistics*; Koper/Capodistria, Slovenia

October 2025

- October 5-9 (2025), *65th ISI World Statistics Congress 2025*, The Hague, The Netherlands

March 2026

- March 2-6 (2026), *Latin American Congress of Probability and Mathematical Statistics*, Montevideo, Uruguay

August 2026

- August 24–28 (2026), *European Meeting of Statisticians*, Lugano, Switzerland

Quote of the Issue:

> "As statisticians, we're trained to be sceptical, but in interdisciplinary environments, that scepticism can backfire. "
>
> *Nancy Reid*

Recent Issues of Official Publications

Bernoulli

Vol. 31, No. 2: May 2025

Editors-in-Chief: K. Kato

http://projecteuclid.org/current/euclid.bj

"Accuracy of Gaussian approximation for high-dimensional posterior distributions," V. Spokoiny, M. Panov, 843–867.
"A Fourier representation of kernel Stein discrepancy with application [...]," G. Wynne, M. J. Kasprzak, A. B. Duncan, 868–893.
"An adaptive model checking test for the functional linear model," E. Shi, Y. Liu, K. Sun, L. Li, L. Kong, 894–921.
"Functional diffusion driven stochastic volatility model," P. Kokoszka, N. Mohammadi, H. Wang, S. Wang, 922–947.
"Blessing of dependence: Identifiability and geometry of discrete models with multiple binary latent variables ,"Y. Gu, 948–972.
"Functional linear and single-index models: A unified approach [...]," K. Balasubramanian, H.G. Müller, B.K. Sriperumbudur, 973–1006.
"Theoretical properties of angular halfspace depth,"S. Nagy, P. Laketa 1007–1031.
"Adaptive estimation of irregular mean and covariance functions," S. Golovkine, N. Klutchnikoff, V. Patilea, 1032–1057.
"Change-point detection in low-rank VAR processes," F. Enikeeva, O. Klopp, M. Rousselot, 1058–1083.
"Hölder regularity and roughness: Construction and examples," E. Bayraktar, P. Das, D. Kim, 1084–1113.
"Optimal spectral recovery of a planted vector in a subspace," C. Mao, A. S. Wein, 1114–1139.
"Isotonic conditional laws," S. Arnold, J. Ziegel, 1140–1159.
"Speeding up Monte Carlo integration: Control neighbors for optimal convergence ," R. Leluc, F. Portier, J. Segers, A. Zhuman, 1160–1180.
"Bayesian uncertainty quantification and structure detection for multiple change points models," E. Belitser, S. Ghosal, 1181–1205.
"High-dimensional variable selection with heterogeneous signals: A precise asymptotic perspective," S. Roy, A. Tewari, Z. Zhu, 1206–1229.
"Multiple testing under negative dependence," Z. Chi, A. Ramdas, R. Wang, 1230–1255.
"Stochastic selection problem for a Stratonovich SDE with power non-linearity," I. Pavlyukevich, G. Shevchenko, 1256-1276.
"Extremal shot noise processes and random cutout sets," C. Foucart, L. Yuan, 1277-1299.
"Siblings in d-dimensional nearest neighbour trees," J. Casse 1300–1324.
"A nonparametric distribution-free test of independence among continuous random vectors [...]," N.E. Berrahou, S. Bouzebda, L. Douge, 1325–1350.
"Optimal transport and Wasserstein distances for causal models," P. Cheridito, S. Eckstein, 1351–1376.
"Reversibility of elliptical slice sampling revisited," M. Hasenpflug, V. Telezhnikov, D. Rudolf, 1377–1401.
"Heat kernel estimates for kinetic SDEs with drifts being unbounded and in Kato's class ," C. Ren, X. Zhang, 1402–1427.
"Brownian motion conditioned to spend limited time outside a bounded interval [...]," F. Aurzada, M. Kolb, D.T. Schickentanz, 1428–1450.
"Generalized Hadamard differentiability of the copula mapping and its applications," N. Neumeyer, M. Omelka, 1451–1474.
"Bayesian inference for k-monotone densities with applications to multiple testing," K. Wang, S. Ghosal, 1475–1501.
"Phase transitions of the maximum likelihood estimators in the p-spin Curie-Weiss model," S. Mukherjee, J. Son, B.B. Bhattacharya, 1502–1526.
"A bootstrapped test of covariance stationarity based on orthonormal transformations," J.B. Hill, T. Li, 1527–1551.
"Averaging symmetric positive-definite matrices on the space of eigen-decompositions," S. Jung, B. Rooks, D. Groisser, A. Schwartzman, 1552–1578.
"On a near-optimal and efficient algorithm for the sparse [...]," M. H. Klimroth, R. van der Hofstad, N. Müller, C. Riddlesden, 1579–1605.
"Heat content for Gaussian processes: Small-time asymptotic analysis," K. Kobayashi, H. Park, 1606–1632.
"Random line graphs and edge-attributed network inference," Z. Lubberts, A. Athreya, Y. Park, C.E. Priebe, 1633–1663.
"Sharper dimension-free bounds on the Frobenius distance [...]," N. Puchkin, F. Noskov, V. Spokoiny, 1664–1691.

Stochastic Processes and their Applications

Vol. 186: August 2025

Editor-in-Chief: Eva Löcherbach

http://www.sciencedirect.com/science/journal/03044149

"Large deviations for empirical measures of self-interacting Markov chains," A. Budhiraja, A. Waterbury, P. Zouboulоglou, 104640
"Limit theorems for high-dimensional Betti numbers in the multiparameter random simplicial complexes," T. Owada, G. Samorodnitsky, 104641.
"Harmonizable Multifractional Stable Field: Sharp results on sample path behavior," A. Ayache, C. Louckx, 104638.
"A definition of self-adjoint operators derived from the Schrödinger operator with the white noise potential on the plane," N. Ueki, 104642.
"Multiple and weak Markov properties in Hilbert spaces with applications to fractional stochastic [...]," K. Kirchner, J. Willems, 104639.
"Stationary fluctuations for a multi-species zero range process with long jumps," L.Zhao, 104645.
"Stochastic chemical reaction networks with discontinuous limits and AIMD processes," L. Laurence, P. Robert, 104643.
"α-stable Lévy processes entering the half space or a slab," A. E. Kyprianou, S. Medina, J.C. Pardo, 104644.
"Well-posedness of a reaction–diffusion model with stochastic dynamical boundary conditions," M. Maurelli, D. Morale, S. Ugolini 104646.
"Long run convergence of discrete-time interacting particle systems of the McKean–Vlasov type," P. Bianchi, W. Hachem, V. Priser, 104647.
"Inference in nonlinear random fields and non-asymptotic rates for threshold variance estimators under sparse dependence," A. Steland 104649.
"Lévy models amenable to efficient calculations,"S. Boyarchenko, S. Levendorskiĭ, 104636.

Bernoulli Society Bulletin e-Briefs

Vol. 65: April 2025

Editor-in-Chief: A. Caponera

https://www.bernoullisociety.org/publications?id=171

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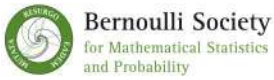

Have a look at https://www.bernoullisociety.org/publications for the latest articles in *Electronic Communications in Probability*, *Electronic Journal of Probability*, *Electronic Journal of Statistics*, *Probability Surveys* and *Statistics Surveys*, *ALEA*, as well as

International Statistical Review.

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Bernoulli Society
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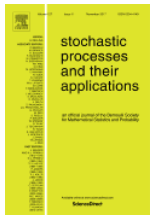
and Probability

"If you are already a member, encourage your colleagues, postdocs and PhD Students to join the Bernoulli Society."



Publications and Meetings

The Bernoulli Society official journals are *Bernoulli* and *Stochastic Processes and their Applications*. In addition, the BS co-sponsors the following open-access online publications: *Electronic Communications in Probability*, *Electronic Journal of Probability*, *Electronic Journal of Statistics*, *Latin American Journal of Probability and Mathematical Statistics*, *Probability Surveys* and *Statistics Surveys*. Published twice a year, *Bernoulli News* provides detailed information about activities of the Society, while *Bernoulli* e-*Briefs* is a bimonthly electronic information bulletin that summarizes and draws the attention of relevant information to the membership.

The Bernoulli Society organizes or sponsors several international meetings which have a prominent relevance in the fields of mathematical statistics, probability, stochastic processes and their applications. These meetings are often held in conjunction with the ISI and other ISI Associations, the IMS or by the BS Regional and Standing Committees. Some of the meetings with a proud tradition are the *Bernoulli–IMS World Congress in Probability and Statistics* every four years, the *Conference on Stochastic Processes and their Applications* (SPA) organized every year, the *ISI World Statistics Congress* (formerly ISI Session), the *Latin American Congress in Probability and Mathematical Statistics* (CLAPEM) organized every two or three years, the *European Meeting of Statisticians* (EMS) organized every two years and the *European Young Statisticians Meeting* (EYSM) organized every two years.

Benefits of Joining the Bernoulli Society

- Reduced registration fees for meetings organized or sponsored by the Bernoulli Society.
- Free online access to *Bernoulli* (back to the first issue in 1995) and to *Stochastic Processes and their Applications* (back to the first issue in 1973).
- Receive the print version of *Bernoulli News* and the electronic information bulletin *Bernoulli* E-*Briefs*.
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Membership Application and Fees

Online Application for Membership

- Bernoulli Society membership
  `https://www.isi-web.org/index.php/memberships`

Membership Fees for 2025

- Full members: €84.
- First year of membership and first two years of postdoc for members from developed countries: €42.
- PhD students - developed countries: €30.
- PhD students - developing countries: €12.
- Members from developing countries, retired members and retired couples: €34.
- Joint BS–IMS memberhip: $154.
- Joint BS–IMS–ISI membership (only for elected ISI Members): €195.