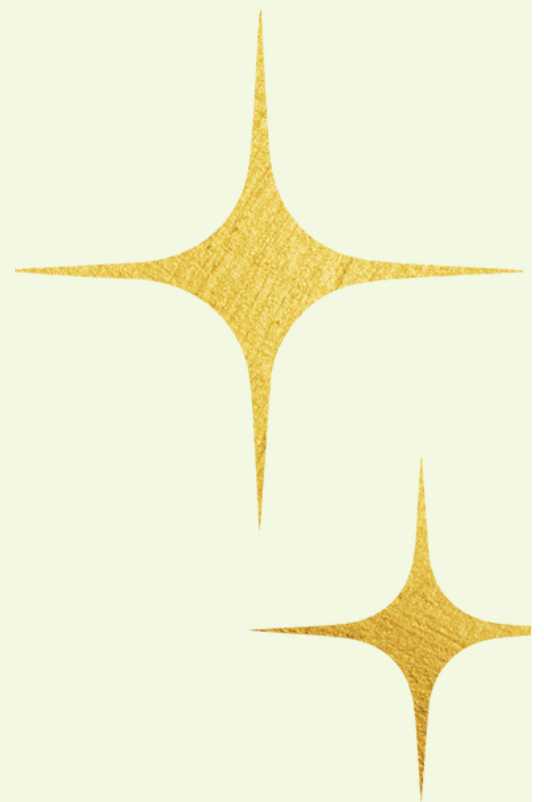IISc Bangalore, venue for IISA 2022 Conference, 26-30 December 2022

IISA Fall 2022

Newsletter

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About us

Message from the IISA President, Sandeep Menon

Hello all,

As we wrap up this year, I want to reflect on the wonderful achievements and share the excitement for upcoming events, all of which have been possible because of the commitment and dedication of this vibrant community.

This organization has rolled out several activities this year to support the continuous improvement of the IISA experience.

I want to thank our executive committee members' commitment and highlight a few areas. I hope you've noticed the thoughtful improvements made to the IISA main website as well as the creation of the IISA LinkedIn page. These are important platforms to help bring awareness to this great community for recruiting purposes and avenues to share the tremendous and impactful work and achievements. I encourage you to continue to share and tag IISA in your relevant posts to drive awareness and traffic to the great happenings here at IISA.

It is a pleasure to share that the IISA sponsored a session in Caucus for the Women in Statistics and provided sponsorship to the Georgia Statistics Day meeting. In addition, IISA will be a proud sponsor of a conference titled "Advances in Statistical and Computational Methods for Analysis of Biomedical, Genetic, and Omics Data," organized by The Department of Mathematical Sciences at the University of Texas at Dallas on March 17-19, 2023.

This year, the IISA 2022 India Meeting will be held at the Indian Institute of Science Bangalore from December 26th – 30th. This conference is designed to promote education, research, and the application of applied mathematics, statistics, and data science worldwide, with a special emphasis on the Indian subcontinent. Thank you to Subhashis Ghoshal (chair), Shailaja Suryawanshi (co-chair), T V Ramanathan (co-chair), and full scientific program committee, and thanks to the local organizing committee led by Chiranjit Mukhopadhyay, as well as the international organizing committee members.

Your dedication to bringing this event to our community is inspiring and appreciated. Please check out the newly updated IISA 2022 conference website for more details on the upcoming event. It's a pleasure to share that the venue has been confirmed for IISA 2023 conference and will be at the Colorado School of Mines, with Soutir Bandyopadhyay as the local organizer. In addition, Anindya Roy (University of Maryland Baltimore County) will be the program chair, and Arka Prasanna Ghosh (Iowa State University) will be the conference committee chair.

It is a pleasure to share that IISA has started the Early Career Award in Statistics and Data Sciences (ECASDS) Award. This will replace the Young Statistical Scientist Awards and is aimed to recognize and felicitate IISA members who have made outstanding contributions in all topics covered under the broad umbrella of statistics and data sciences. The Early Career Awards will be given in three tracks: Theory, Methodology and Applications, and Professional Practice. It's exciting also to share that an IISA Career Progression Committee will be created – please stay tuned to hear more about this opportunity.

Please join me in congratulating two IISA members who were voted for the distinguished American Statistical Association 2024 Presidential Election -- Amarjot Kaur (Merck) and Bonnie Ghosh Dastidar (Rand Corporation). Please join me in congratulating Bonnie, who has been elected.

As I pass the baton to Subhashis Ghoshal (North Carolina State University) as the new president in the New Year, I want to thank you all for your passion and dedication to the field and for inspiring each other. I have undoubtedly expanded my knowledge and insight by being a part of this community.

I wish you and yours a joyous holiday season and look forward to much more exciting and impactful work together in the future.

Kind regards,
Sandeep Menon

IISA 2022 Conference

The next conference of the International Indian Statistical Association (IISA) will take place on December 26-30, 2022, at the campus of the Indian Institute of Science (IISc), Bengaluru, India. The conference program will consist of four plenary talks, including the Bahadur Memorial Lecture, eight special invited talks, four panel-discussion sessions, nearly two hundred fifty invited talks, over one hundred contributed talks, and a poster session with about twenty-five posters on diverse topics including mathematical statistics, probability, applied statistics, biostatistics, machine learning, and others. There will be two student paper competitions and a student poster competition carrying cash prizes. More than four hundred participants from India, the United States, and many other countries will attend the conference. Most presentations will be in-person, with only a tiny fraction presenting virtually. Three short courses short on precision medicine, R software, and deep learning will be presented by experts to those who registered for these courses and should be great resources for graduate students and other researchers. The main conference will start on the afternoon of 26th December and end with lunch on 30th December. A banquet and an award ceremony will take place on the evening of 29th December. The conference will offer opportunities to meet with familiar people and new acquaintances and exchange ideas with many researchers worldwide.

Details regarding the conference can be found on the official webpage: https://www.intindstat.org/conference2022/index

-Subhashis Ghoshal
Professor of Statistics at North Carolina State University
Chair of the Scientific Committee for IISA 2022

Statistics and Data Science Innovations Webinar Series

The Membership & Outreach Committee of IISA has initiated the 'Statistics and Data Science Innovations Webinar Series.' The following speakers presented their talks this year:

- Dr. Sanjay Chaudhuri, National University of Singapore: Covariance-based Moment Equations for Improved Variance Component Estimation.
- Dr. Rituparna Sen, Indian Statistical Institute Bangalore: Statistics in Finance
- Dr. Parthanil Roy, Indian Statistical Institute Bangalore: How to tell a tale of two tails?
- Dr. Anindya Bhadra, Purdue University: Graphical Evidence.
- Dr. Shailaja Suryawanshi, Bristol Meyers Squibb: Defining your success.

The recorded talks are now available on YouTube.

The link to the entire playlist is here.

IISA Election Results

Dr. Saonli Basu, Ph.D., professor at the Division of Biostatistics, University of Minnesota, has been elected as the new **IISA President-Elect**, serving for the years 2023 as the President-Elect, 2024 as the President, and 2025 as the Past-President.

Dr. Basu received her Ph.D. in Statistics from the University of Washington. She has an MStat degree from the Indian Statistical Institute and BSc from Presidency College. Her research focuses on developing statistical methodologies for the genetic mapping of complex traits. In particular, she is interested in rare variant association and gene-environment interaction modeling in longitudinal family studies. Her general interest includes computational statistics, nonparametric inferences, and their application in different areas of statistical genomics. She is an American Statistical Association elected fellow.

Saonli has been involved in a wide range of activities in the International Indian Statistical Association (IISA), Caucus for Women in Statistics (CWS), International Biometric Society (IBS), and the American Statistical Association (ASA). Her passion for inspiring and motivating students to discover their purpose and potential motivates these involvements. She strongly values diversity and inclusivity in the statistical community and is deeply committed to achieving them. She is also dedicated to improving the awareness and visibility of statistics by encouraging participation in interdisciplinary research by creating outreach activities for undergraduate and high school students.

As president, one of her first priorities will be to further strengthen the bond between academia, industry, and federal organizations. Saonli will work towards increasing IISA membership throughout the sectors and organize events that are appealing to the community. In addition to that, she will also take steps towards establishing relationships with other statistical organizations, such as hosting joint events and creating outreach activities. She will commend short courses for facilitating statistical learning and computing. She would like to increase awareness surrounding statistics in the younger generation and emphasize how big of a role statisticians play in decision-making.

Please congratulate Dr. Basu for being elected as IISA president for 2024.

Dr. P. G. Sankaran, Ph.D., Pro Vice-Chancellor at the Cochin University of Science and Technology (CUSAT), has been elected as the **newest member of the IISA Board of Trustees.**

Dr. Sankaran earned his Ph.D. in statistics from CUSAT in 1992 and his M.Sc in Statistics from CUSAT in 1987. His research focuses on survival analysis, reliability analysis, and distribution theory. In his distinguished career, Dr. Sankaran has published 175 research papers in refereed journals, has written four books and delivered 88 invited talks at national/international conferences. Dr. Sankaran is an elected member of the International Statistical Institute.

An active member of the statistics community, Dr. Sankaran has held various leadership positions across his illustrious career spanning 22 years. Prior to becoming the Pro Vice-Chancellor at CUSAT in 2018, he served as the Head of the Department of Statistics, as well as the Director, Centre for Population Studies at CUSAT. Dr. Sankaran is an Associate Editor of the journal IAPQR Transactions and has served as a reviewer of a number of reputed statistics journals. He is a member of numerous national and international professional societies, including the American Mathematical Society (USA), the Institute of Mathematical Statistics (USA), and the Indian Society for Probability and Statistics (India).

Dr. Sankaran places high importance on the educational aspects of statistics research and strives to cultivate these values through his work. He has successfully supervised 13 Research Scholars for their doctoral degrees. His research has been supported through multiple avenues by the Govt. of India and Govt. of Kerala. Dr. Sankaran's contributions to statistics research have been recognized through multiple avenues. He was a BOYSCAST Fellow from DST, Govt. of India in 2000, received the IISA Young Researcher award in 2010, and received the Distinguished Statistician Award of the Indian Society for Probability and Statistics in 2020.

Please congratulate Dr. Sankaran for being elected as a member of the IISA Board of Trustees for 2024.

Member News

Bhramar Mukherjee elected as a member of the US National Academy of Medicine

IISA is elated to announce that our very own Bhramar Mukherjee has been elected as a member of the US National Academy of Medicine. The announcement appears on the webpage https://nam.edu/national-academy-of-medicine-elects-100-new-members-2022/ which cites

"Bhramar Mukherjee, Ph.D., John D Kalbfleisch Collegiate Professor and chair, department of biostatistics, and professor, department of epidemiology, University of Michigan School of Public Health, Ann Arbor. For seminal contributions to statistical methods in public health and biomedical sciences; pioneering methods for the integration of genes, environment, and disease phenotypes across health conditions; analysis of the COVID-19 epidemic that have informed policy in India; exemplary leadership; and nationally recognized initiatives to diversify the data and statistical science workforce."

This is a rare achievement for a statistician. Bhramar may be the first statistician of Indian origin to get elected to the US National Academy of Medicine.

We hereby congratulate Bhramar for her exemplary and remarkable achievement!

Madhu Mazumdar wins Elizabeth L. Scott Award

AMSTAT News reports, "The Committee of Presidents of Statistical Societies Elizabeth L. Scott Award committee recently honored Madhu Mazumdar of the Icahn School of Medicine at Mount Sinai with the 2022 award. Mazumdar was selected for serving as an outstanding role model of leadership and creating new leadership opportunities for statisticians, fostering opportunities in statistics and promoting statistical careers for diverse trainees, training and mentoring the next generation of statistical leaders, and excelling in team science research."

We hereby congratulate Madhu for her remarkable achievement.

Sanjay Chaudhuri elected to the International Statistical Institute

IISA Life member and Executive Director Dr. Sanjay Chaudhuri, Associate Professor, Department of Statistics and Data Science, National University of Singapore, has been elected to the ISI in the third round of 2022 ISI membership elections.

Congratulations, Sanjay!

Satrajit Roychoudhury becomes ASA Fellow

Dr. Satrajit Roychoudhury, Executive Director at Pfizer Inc., has been bestowed the prestigious distinction of Fellow of the American Statistical Association for 2022.

Congratulations, Satrajit!

Sharmistha Guha receives Blackwell-Rosenbluth award

Sharmistha Guha, Assistant Professor, Department of Statistics, Texas A&M University, was awarded the Blackwell-Rosenbluth award (2022) by j-ISBA (International Society of Bayesian Analysis) that "recognizes outstanding junior Bayesian researchers based on their overall contribution to the field and to the community." The award is named after David H. Blackwell and Arianna W. Rosenbluth for their groundbreaking works that lie at the foundation of modern Bayesian statistical theory and computation.

Congratulations Sharmistha!

Prof. Shalabh and team wins National Award for eGovernance (Silver Award)

Prof. Shalabh and his team, with Prof. Nisheeth Srivastava and Prof. Piyush Rai of IIT Kanpur, received the National Award for eGovernance (Silver Award) in 2022 under the Category "Outstanding research on Citizen Centric Services by Academic/Research Institution" from the Department of Administrative Reforms & Public Grievances, Ministry of Personnel, Public Grievances & Pensions, Government of India. This award seeks to recognize exemplary research in the field of eGovernance by Academic/Research Institutions for the benefit of the citizen. This award is given for the project based on the application of Data Science and Artificial Intelligence to handle the grievances of people lodged to the Government of India's portal. This award was given during the National Conference on eGovernance during Nov 26-27, 2002, in which more than a thousand administrators from various ministries of Govt. of India participated. Congratulations, Prof. Shalabh!

Distinguished Statistician Award

Prof. Shalabh, IIT Kanpur, received the Distinguished Statistician Award from the Indian Society for Probability and Statistics (ISPS), India, in 2022.

Congratulations again, Prof. Shalabh!

GET READY FOR

IISA
CONFERENCE
2023
01-04 JUNE
GOLDEN, COLORADO

Conference announcements

- **NMIMS, Nilkamal School of Mathematics**, Applied Statistics & Analytics (NSOMASA) is organizing an international conference on Statistics 2023 (ICS 2023), 'New age statistics for Data Science and Artificial Intelligence' during **March 20-23, 2023**. The last date for registration is December 31, 2022. Please contact ics2023@nmims.edu for more details.

- Department of Mathematics and Department of Statistics, Vidya Prasarak Mandal's **B.N.Bandodkar College of Science (Autonomous)**, Thane, Maharashtra, India, are hosting a two-day National Conference (Offline) on **13 and 14 January 2023**, titled "Applied Mathematics and Statistics." Please contact Tanzim Shaikh (tanzimsshaikh@gmail.com) for more details.

- The Department of Mathematical Sciences at the **University of Texas at Dallas** is organizing a conference titled "Advances in Statistical and Computational Methods for Analysis of Biomedical, Genetic, and Omics Data" on **March 17-19, 2023**. The details are available at https://sites.google.com/view/abgod2023/home. Early registration is now open. We also have some funds to support the travel of students, postdocs, and junior researchers to UT Dallas. They can present a poster at the conference. If you know anyone who may be interested, please encourage them to apply for the award. More information (including the travel award application) is available on the conference website.

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IISA Sponsored events

Georgia Statistics Day 2022

The Georgia Statistics Day (GSD) is an annual event, designed to promote interdisciplinary statistics research among the three flagship academic institutions in the state of Georgia - The University of Georgia, Georgia Institute of Technology, and Emory University. The venue of the conference rotates among the three participating institutions on a three-year cycle. This year GSD2022 was hosted by the University of Georgia. The event was a tremendous success and had around 180 participants. Professor Nilanjan Chatterjee from John Hopkins University was the keynote speaker. Along with the faculty and students of the three sponsoring institutions (UGA, GA Tech, and Emory), there were also participants from the Centers for Disease Control and Prevention, the American Cancer Society, Clemson University, Duke University, Georgia Southern University, Georgia State University, North Carolina State University, University of Central Florida and University of California at Los Angeles. A number of industry partners, including DLH, JMP, State Farm and Wells Fargo, sponsored the event. All the participants were highly impressed with the quality of research posters presented by the 35 graduate and 8 undergraduate students.

This event was sponsored by IISA.

Job advertisements

Faculty Positions in the areas of Statistics and Probability, Department of Mathematics, IIT Bombay

Established in 1958, the Indian Institute of Technology Bombay (IITB) is recognized worldwide as a leader in the fields of science and engineering. The institute is particularly well known for the outstanding caliber of its students in its undergraduate and postgraduate programs, drawn from among the best in the country.

The Bachelor's, Master's, and Doctoral programs in both mathematics and statistics are marked by a strong dedication to teaching on the part of the faculty of the Department of Mathematics, alongside an equal commitment to excellence in research for which the Department is acquiring a growing international reputation.

Located in Powai in central Mumbai, the residents of the institute's campus have the advantage of being in the financial capital of India while enjoying the serenity of a campus known for its natural beauty. The campus can also boast of excellent amenities for sports, cultural and recreational activities for all the members of the IITB community. Details of all the facilities enjoyed by faculty members of IITB can be found in the Faculty Handbook.

The Department of Mathematics actively seeks to recruit outstanding faculty members working in the areas of Probability and Statistics with the expectation that they will contribute to both research as well as to teaching in the undergraduate and graduate programs offered by the department. Their duties will include mentoring and advising students at both the undergraduate and doctoral levels.

The expertise and areas of research of the current faculty can be found at
http://www.math.iitb.ac.in/Research/fac_res.php.

Application Instructions
The application must be entirely completed online. The complete application procedure, along with other details can be found at https://www.iitb.ac.in/en/faculty/faculty-recruitment

If you are applying for the positions of Associate Professor or Professor, please use the corresponding link, with advertisement number I-10/2022-23. If you are applying for the position of Assistant Professor please follow the link with advertisement number H-19/2021-22.

Faculty Positions at Ahmedabad University

Ahmedabad University is inviting applications for full-time tenure track faculty/adjunct/visiting positions in Mathematics, Computer Science, and Statistics at all levels (Assistant Professor, Associate Professor, and Professor). The various schools at the University are building faculty strength in statistical research and education through different research and teaching programs, fostering data-driven cross-disciplinary collaboration among researchers from its broad range of disciplinary strengths, encouraging and funding original research, providing support to design innovative courses for statistics education, and supporting visits from eminent researchers. The upcoming School of Public Health at the University offers exciting scope for statisticians to develop research and teaching programs on public health.

Responsibilities: To engage in high-level statistical and data science research and education; to teach, guide, and examine undergraduates; and to supervise and examine both Masters and Doctoral work. Faculty can also teach interdisciplinary courses in different programs at the University. This is an exciting opportunity to join a dynamic new private research university with a public ethos.

Benefits: It offers an attractive salary package commensurate with experience. Faculty will be supported with relocation costs, seed and start-up research grants, faculty development allowance, funding to attend international and national conferences, and fully funded Ph.D. students.

Required and Preferred Qualifications: Ph.D. in Statistics, Biostatistics, Mathematics, Computer Science, or any related fields with emphasis on Statistics from institutions with international recognition. They must have an existing record of excellence and potential commensurate with their appointment level and stage of career.

About the University: Ahmedabad University supports innovative, interdisciplinary, project-based education and asserts the centrality of both the arts and the sciences for a broad and fulfilling educational experience. (https://ahduni.edu.in/). We welcome applications from scholars with strong communication skills who can contribute to imaginative learning and are willing to work collaboratively as part of a community of emerging scholars. All faculty at the University are expected to engage in both research and teaching, and we operate a six-year tenure track. Ahmedabad University is committed to diversity and welcomes applications from qualified persons from underrepresented groups regardless of ethnicity, gender, religion, or similar status.

How to Apply: Interested applicants are requested to submit
- a letter stating their interest in a position at the University and outlining their qualifications for it.
- an up-to-date CV and contact details of three referees
- two representative articles or other publications as an example of their scholarship
- a concise statement of future research and teaching interests (up to 1000 words).

Applications and inquiries should be made to the Dean of the School of Arts and Sciences office using the email address artsandsciences@ahduni.edu.in. Please quote the reference SAS/MPS/003 on your application and in any associated correspondence.

This is a rolling advertisement. Applications are reviewed as soon as they are received.
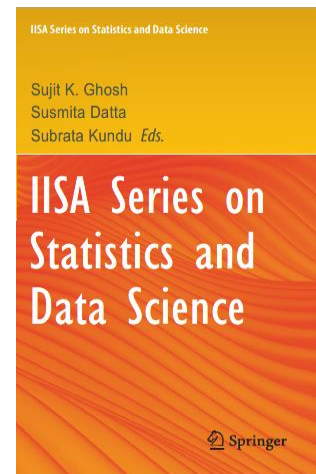
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- **Dr. Subrata Kundu**
  Department of Statistics, George Washington University, Washington D.C., USA

Aims and Scope

The book series is aimed at promoting the emerging research and case studies in the discipline of statistical science and cutting-edge computational data analytics by publishing books on theoretical foundations, computational techniques, methods, models and their applications. In addition to methodological research, the series will also include volumes on case studies that illustrate novel methods with applications to allied sciences including but not limited to biological, biomedical, epidemiological, engineering, finance, statistical learning and artificial intelligence. The books published within this series will be of interest not only to statisticians and researchers in academia but also to practitioners in industries and government institutions.

The series will encompass theoretical aspects of statistical methods, as well as innovative applications and their properties in the context of big data analytics, and data science, in general. The scope of the series will be broad based such that it can be used as a reference book of various topics of statistical instructions and advanced research monographs. A few volumes of this series will include articles presented by eminent researchers and practitioners at the annual conferences of the International Indian Statistical Association and will also include articles that provides comprehensive overview of some of the emerging and changing foci of statistical sciences and data analytics.

Forthcoming in this Series:

- **High Dimensional Data Science** (2023)
  Ed. Snigdhansu Chatterjee, University of Minnesota, USA

- **Statistics in Clinical Development of Cancer Drugs: Recent Trends & Advances** (2023)
  Eds. Madan G Kundu, Biostatistics & Data Management (BDM), Daiichi Sankyo Inc, USA
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