



ICSTA
2025

**PROCEEDINGS OF THE 7th
INTERNATIONAL CONFERENCE ON
STATISTICS: THEORY AND APPLICATIONS
(ICSTA 2025)**

August 17 - 19, 2025 | Paris, France

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WELCOME MESSAGE FROM THE CONFERENCE CHAIR

On behalf of the International Academy of Science, Engineering and Technology (International ASET Inc.), the organizing committee would like to welcome you to the 7th International Conference on Statistics: Theory and Applications (ICSTA 2025).

The goal of ICSTA 2025 is to gather scholars from all over the world to present advances in the relevant fields and to foster an environment conducive to exchanging ideas and information. This conference will also provide an ideal environment to develop new collaborations and meet experts on the fundamentals, applications, and products of the mentioned fields.

At the seventh meeting of this conference, two Plenary Speakers and five Keynote Speakers will share their expertise with the aim of exposing participants to a wide range of applications, fostering the cross-pollination of ideas, and encouraging the development of new research interests. Additionally, approximately 34 papers will be presented by professors, students, and researchers from around the world.

We thank you for your participation and contribution to the 7th International Conference on Statistics: Theory and Applications (ICSTA 2025). We wish you a very successful and enjoyable experience.

Dr. Noelle Samia
Northwestern University, USA
Conference Chair
ICSTA 2025

Dr. Dirk Husmeier
The University of Glasgow, UK
Conference Co-Chair
ICSTA 2025

ABOUT ICSTA 2025

The 7th International Conference on Statistics: Theory and Applications (ICSTA 2025) aims to become the leading annual conference in fields related to Statistics: Theory and Applications. The goal of ICSTA 2025 is to gather scholars from all over the world to present advances in the fields related to Statistics: Theory and Applications and to foster an environment conducive to exchanging ideas and information. This conference will also provide an ideal environment to develop new collaborations and meet experts on the fundamentals, applications, and products of the mentioned fields.

ICSTA is an international conference will be held yearly. This conference focus on all aspects Statistics: Theory and Applications. ICSTA Will be held this year in Paris, France.

ICSTA is an acronym for **I**nternational , **S**tatistics: **T**heory and **A**pplications.

- The proceedings are published in Ottawa, Canada.
- All papers were peer-reviewed
- The congress proceedings is published under an ISSN and ISBN number
- Each paper is assigned a unique DOI number by [Crossref](#)
- The conference proceedings are indexed by [Scopus](#) and [Google Scholar](#)
- The proceedings is permanently archived in [Portico](#) (one of the largest community-supported digital archives in the world)

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SCIENTIFIC COMMITTEE

We would like to thank the following for accepting to act as a member of the Scientific Committee for the ICSTA 2025



Dr. Noelle Samia
Northwestern University, USA
Conference Chair



Dr. Dirk Husmeier
The University of Glasgow, UK
Conference Co-Chair



Dr. Jürgen Pilz
University of Klagenfurt, Austria
local Committee Member

scientific Committee Members

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- **Dr. Hosam M. Mahmoud**, George Washington University, USA
- **Dr. Juergen Pilz**, Alpen-Adria Universität Klagenfurt, Austria
- **Dr. Azizur Rahman**, Charles Sturt University, Australia

KEYNOTE SPEAKERS

The keynote information for the International 7th International Conference on Statistics: Theory and Applications (ICSTA 2025) is as follows:

Plenary Speakers



[Dr. Sheng Li](#)
[University of Virginia, USA](#)



[Dr. Leonard Stefanski](#)
[North Carolina State University, USA](#)

Keynote Speakers



[Dr. Charles Bouveyron](#)
[Université Côte d'Azur, France](#)



[Dr. Kaize Ding](#)
[Northwestern University, USA](#)



[Dr. Inge S. Helland](#)
[University of Oslo, Norway](#)

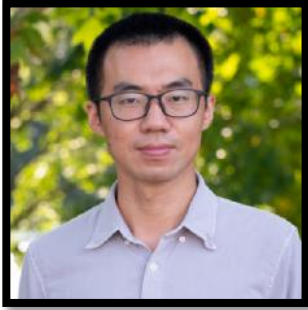


[Dr. Jana Jureckova](#)
[Charles University, Czech Republic](#)



[Dr. Hong Pan](#)
[Simmons University, USA](#)

ICSTA 2025 Plenary SPEAKER



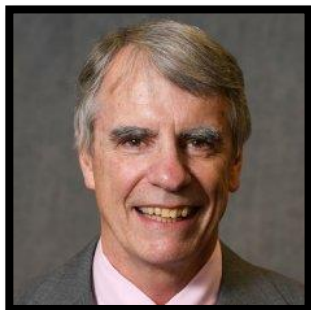
Titles: Causality for Trustworthy Artificial Intelligence

Dr. Sheng Li, University of Virginia, USA

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Sheng Li is a Quantitative Foundation Associate Professor of Data Science and an Associate Professor of Computer Science (by courtesy) at the University of Virginia (UVA). He was an Assistant Professor of Data Science at UVA from 2022 to 2023, an Assistant Professor of Computer Science at the University of Georgia from 2018 to 2022, and a Data Scientist at Adobe Research from 2017 to 2018. He received his PhD degree in Computer Engineering from Northeastern University in 2017 and received his master's degree and bachelor's degree from School of Computer Science at Nanjing University of Posts and Telecommunications in 2012 and 2010, respectively. His recent research interests include Trustworthy AI, Causal Inference, Large Foundation Models, and Vision-Language Modeling. He has published over 180 papers, and has received over 10 research awards, such as the INNS Aharon Katzir Young Investigator Award, Fred C. Davidson Early Career Scholar Award, Adobe Data Science Research Award, Cisco Faculty Research Award, and SDM Best Paper Award. He currently serves as Associate Editor for six journals such as Transactions on Machine Learning Research (TMLR) and IEEE Trans. Neural Networks and Learning Systems (TNNLS), and serves as an Area Chair for IJCAI, NeurIPS, ICML, and ICLR.

ICSTA 2025 Plenary SPEAKER



Titles: Fractional Ridge Regression

Dr. Leonard Stefanski, North Carolina State University, USA

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Dr. Stefanski received a PhD in 1984 from the University of North Carolina, Chapel Hill, having joined the faculty at NC State University in 1986 where he has served as Graduate Program Director, Associate Department Head, and Department Head. He was Editor of the The Journal of the American Statistical Association (JASA T&M), and has served on state and national committees and boards including the BEIR VII Committee on the Health Risks from Exposure to Low Levels of Ionizing Radiation, National Academy of Sciences, and the North Carolina Forensic Science Advisory Board. His research is in the general area of statistical inference with emphasis on the analysis of data measured with error, robust statistical procedures, and variable and model selection. Dr. Stefanski is an elected Fellow of the American Statistical Association (ASA), the Institute of Mathematical Statistics (IMS), and the American Association for the Advancement of Science (AAAS).

ICSTA 2025 Keynote SPEAKER



Titles: Unsupervised Learning with Communication Networks: From Stochastic Block Models to Deep Latent Variables Models

Dr. Charles Bouveyron, Université Côte d'Azur, France

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Charles Bouveyron is Full Professor of Statistics with Université Côte d'Azur and the director of the Institut 3IA Côte d'Azur, one of the nine French institutes in Artificial Intelligence. He is the head of the Maasai research team, a joint team between INRIA and Université Côte d'Azur, gathering mathematicians and computer scientists for proposing innovative models and algorithms for Artificial Intelligence. Since 2019, he holds a chair in Artificial Intelligence at Institut 3IA Côte d'Azur on unsupervised learning with heterogeneous data. His research interests include high-dimensional statistical learning, adaptive learning, statistical network analysis, learning from functional or complex data, deep latent variable models, with applications in medicine, image analysis and digital humanities. He has published extensively on these topics (more than 50 journal articles) and he is author of the monograph "Model-based Clustering and Classification for Data Science" (Cambridge University Press, 2019). He is the founding organizer of the series of workshops StatLearn. Previously, he worked at Université Paris Descartes (Full Professor, 2013-2017), Université Paris 1 Panthéon-Sorbonne (Ass. Professor, 2007-2013) and Acadia University (Postdoctoral researcher, 2006-2007). He received the Ph.D. degree in 2006 from Université Grenoble 1 (France) for his work on high-dimensional classification.

ICSTA 2025 Keynote SPEAKER



Titles: Data-Efficient Graph Learning

Dr. Kaize Ding, Northwestern University, USA

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Kaize Ding is an Assistant Professor in the Department of Statistics and Data Science at Northwestern University. His research interests are generally in data mining, machine learning, and large foundation models. His recent research focus is to build reliable and efficient AI systems for autonomous decision-making, with the applications in domains such as healthcare/biomedicine, urban/environmental computings, etc. Kaize's research has been published at top-tier conferences and journals (e.g., AAAI, EMNLP, IJCAI, KDD, NeurIPS, TheWebConf, and TNNLS), and has been recognized with several prestigious awards and honors, including Amazon Research Awards, AAAI New Faculty Highlights, SDM Best Posters Award, etc.

ICSTA 2025 Keynote SPEAKER



Titles: On Quantum Foundation, As Seen By A Statistician

Dr. Inge S. Helland, University of Oslo, Norway

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Dr, Inge Svein Helland is professor emeritus at the University of Oslo. He got his master's degree in statistics from the University of Bergen in 1973 and his Dr. Philos. degree from the University of Oslo in 1980. He has been professor in statistics at the Agricultural University of Norway and at the University of Oslo. His research covers more than 100 publications, most of them in various areas in applied and theoretical statistics. During the last 10 years, he has worked with the foundation of quantum theory, which has resulted in 4 books and various articles in leading journals in theoretical physics.

ICSTA 2025 Keynote SPEAKER



Titles: Quantile Functionals as Measures of Social, Health and Technical Events

Dr. Jana Jureckova, Charles University, Czech Republic

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Jana Jurečková is Professor Emerita of Charles University in Prague, Czech Republic, where she worked in Department of Probability and Mathematical Statistics. Besides that she works as a Senior Research Fellow in the Institute of Information Theory and Automation, the Czech Academy of Sciences, since 2018. She received PhD in 1977 and the degreee DrSc in 1984 in Charles University in Prague; and is a elected member of the Learned Society of the Czech Republic, of ISI, and Fellow of IMS. As a Visiting Professor she worked in Bordeaux and Toulouse (France), in Neuchatel (Switzerland), in Chapel Hill (NC, USA). Besides that she had an intensive cooperation in Brussels (Belgium), in Ottawa (Canada), in Urbana-Champaign (Illinois, USA), in Freiburg (Germany), and elsewhere. Her Fields of Interest: Analytical Statistics, Probability, Estimation and Hypotheses Testing, Robust and Nonparametric Statistical Methods, Extreme Value Theory. In this area she was an Advisor of 13 PhD students, worked in editorial boards of statistical journals and contributed to organizations of conferences. She is a coauthor of 4 monographs and of more than 160 journal publications, rather frequently cited.

ICSTA 2025 Keynote SPEAKER



Titles: The Unlikely Revolutionary: You, The Statistician
— From ECT Confusion To AI Revolution: Discover How
Statisticians Transformed Messy Medical Data into Life-
Saving Insights

Dr. Hong Pan, Simmons University, USA

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Hong Pan, a dedicated professional in data science and statistics, was born to a family of educators. He attended Shanghai Jiao Tong University, where he studied Biomedical Engineering, and then joined Purdue University in the U.S. for his PhD program in Electrical and Computer Engineering.

After obtaining his PhD, Hong first joined Cornell University Medical College as a faculty member, where he conducted and oversaw technical, analytic, and engineering aspects of human in vivo functional and molecular neuroimaging research and trained multidisciplinary students, research fellows, and clinician scientists; and then moved to Harvard Medical School as a faculty member where he further his invention to innovation technology transfer journey in data science applications for medical imaging.

For over 25 years, Hong has been a leader in data science efforts, serving as the subject matter expert on over 20 federal and institutional projects. His influence and impact in the field, particularly his expertise in AI/ML algorithms and advanced statistics, have been instrumental in developing statistical, data-driven diagnostic tools for guiding the treatment of brain disorders. He has created best practice approaches for optimized data acquisition, data science solutions for biomarker discovery, and automated analytics and informatics pipelines based on functional neuroimaging methodology. His work has resulted in 4 patents, a successful spin-out startup, and earned him the Mass General Brigham Excellence in Innovation Award twice and Brigham and Women's Hospital's Pillar Award in Research & Innovation, with over 60 journal publications, solidifying his professional standing in the field. In 2023, Hong joined Simmons University, a women-focused liberal arts college in Boston, as a faculty member and started focusing on full-time teaching in statistics and data science.

LIST OF PAPERS

The following papers were presented at the 7th International Conference ON STATISTICS: THEORY AND APPLICATIONS (ICSTA 2025).

Plenary & Keynote Speakers Session

Causality for Trustworthy Artificial Intelligence

Author: Dr. Sheng Li

Fractional Ridge Regression

Authors: Dr. Leonard Stefanski

Unsupervised Learning with Communication Networks: From Stochastic Block Models to Deep Latent Variables Models

Authors: Dr. Charles Bouveyron

Data-Efficient Graph Learning

Authors: Dr. Kaize Ding

On Quantum Foundation, As Seen By a Statistician

Authors: Dr. Inge S. Helland

Quantile Functionals as Measures of Social, Health and Technical Events

Authors: Dr. Jana Jurečková

The Unlikely Revolutionary: You, The Statistician — From ECT Confusion To AI Revolution: Discover How Statisticians Transformed Messy Medical Data into Life-Saving Insights

Authors: Dr. HONG PAN

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[Robust Eigenvector Shrinkage via M-Estimators and Geometric Priors for High-Dimensional Covariance Estimation](#)

Author: Greeshma Balabhadra

[Leveraging Spatial Interpolation for PM2.5 Estimation: Constructing a Reference Framework for Calibration Models](#)

Author: Natthanidnan Sricharoen, Patrinee Traisathit, Sukon Prasitwattanaseree, Pimwarat Srikummoon, Jeerasak Longmali, Titaporn Supasri

[Physics-informed Gaussian Processes for nonlinear partial differential equations in a fluid-dynamics application](#)

Author: L. Mihaela Paun, Mitchel J. Colebank, and Dirk Husmeier

[Physics-Informed Emulation of Systemic Blood Circulation](#)

Author: William Ryan, Vladislav Vyshemirsky, Alyssa Taylor LaPole, Mette Olufsen, Dirk Husmeier

[Modelling of the Short-term Heart Rate Variability Measures: a Focus on the Transformation](#)

Authors: Svitlana Shvydka and Mária Ždímalová

[Pre, Peri, and Post-Covid Statistical Analysis of Restaurant Inspection Scores: Preliminary Insights](#)

Authors: Nicholas V. Scott, Sarah Jensen, and Tania Nur

[Bayesian Network Modeling of Socio-Environmental Variables Supporting Health Policy Deliberation](#)

Authors: Nicholas V. Scott, Sarah Jensen, and Tania Nur

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Applied Statistics

Bivariate Normal Distribution for Modelling Spatio-Temporal Data

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Evaluation of Biostatistics Contents in ChatGPT: A Descriptive Study

Authors: Arzu Baygöl Eden, Alev Bakır Kayı, Mert Veznikli

Investigating Tabular Generative Models for Synthetic Data Generation in PDAC Bulk Gene Expression Data

Authors: Sultan Sevgi TURGUT ÖGME, Zeyneb KURT, Nizamettin AYDIN

Poisson distribution: An Alternative Statistical Model to Predict Exact Scores of Football Matches

Authors: Miltiadis Chalikias, Evdoxia Siolou, Evangelia Kossieri, Panagiota Lalou

Asymmetric Cross-correlation of Multivariate Spatial Stochastic Processes: A Primer

Authors: Xiaoqing Chen

Minimax Rates of Convergence for Multivariate Distribution Function L^1 -Deconvolution with Known Ordinary Smooth Errors

Authors: Catia Scricciolo

Assessing Ecosystem Dynamics Under Disturbance: A Hidden Markov Model Framework for Species Detection Data

Authors: Litty Mathew, Caroline Brophy, Ian Donohue, Samuel RP-J Ross, Silvia D'Angelo

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Authors: Austin Yang

[Optimal Designs and Reliability Acceptance Sampling Plans for Accelerated Copula-Based Dependent Competing Risks Model](#)

Authors: Rathin Das, Soumya Roy, Biswabrata Pradhan

[A Novel Optimised Fractional Hausdorff Grey Model with Time Power Term \(OFHGM\(1,1,t ^{\$\alpha\$} \)\) for Forecasting Greenhouse Gas Emissions](#)

Authors: Havisha Jahajeeah, Aslam Aly E. F. Saib

[Performance Comparison of Statistical Emulators for Parameter Estimation in Complex Systems](#)

Authors: Hongjin Ren, Hao Gao¹, Mu Niu, Vinny Davies, Benn Macdonald

[Productivity Loss and Diabetes in Brazil: A Modeling Approach Based on National Health Survey Data](#)

Authors: Arthur Sandi Bauermann, Maria Inês Schmidt, Bruce Bartholow Duncan, Rodrigo Citton Padilha dos Reis, Paula Andreghetto Bracco

[Circular-Circular Regression Models for Wind Directions in Thailand](#)

Authors: Orathai Polsen, Pianpool Kamoljitprapa

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Authors: Xuewen Lu

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[Development of Machine Learning Regression Models for CO₂ Emission Forecasting in Thailand](#)

Authors: Pianpool Kamoljitprapa, Piyachat Leelasilapasart

[A non-parametric Bayesian integrative method for variable selection and prediction](#)

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Bayesian Markov Switching Models for prediction in Precision Beekeeping

Authors: M. C. Robustillo, L. Naranjo, M. I. Parra, C. J. Pérez

Enhancing data collection through predictive modelling in Labour Force Surveys

Authors: Jeremy Heng

Computational Statistics

Piecewise Regression Mixture Models with Skewness

Author: Getachew Dagne

Phase I Monitoring of Between-Profile Autocorrelated Simple Linear Profiles

Authors: Yihua Wang

Evaluating the Efficiency of Bayesian Laplace Approximation for Binary Classification of Cardiovascular Disease (CVD) Risk

Authors: Shuhrah Alghamdi

A Comparative Analysis of Deep Gaussian Processes and Multivariate Bayesian Spline-Based Methods for Simulating

Authors: Callum Macaulay, Dirk Husmeier, Vinny Davies

Linear Prediction for Stationary Random Fields with an Application to Poverty Levels in Texas

Authors: Ouerdia Arezki

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Time-series Analysis

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Author: Luciano Telesca

[Model of Time Series with Asymmetric Persistence and Procedure of its Reconstruction from Data](#)

Authors: Zbigniew Czechowski

[Sequential Change-point Detection for Binomial Time Series with Exogenous Variables](#)

Authors: Yajun Liu, Beth Andrews

[Predictive Models for Household Electricity Consumption of Thailand using Classification](#)

Authors: Piyachat Leelasilapasart, Orathai Polsen

[Monte Carlo Simulations and Renewable Energy Scenarios: Dealing with Uncertainty Using Statistical Estimations](#)

Authors: Mehmet Siddik Cadirci

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ICSTA 2026

The 8th International Conference of On Statistics: Theory and Applications (ICSTA 2026) will be held on August, 2025 | Paris, France.



For inquiries and to obtain further information on the conferences, please visit our website please visit our [website](#)

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ETHICS & MALPRACTICE

At International ASET Inc., we take matters that relate to ethics in publishing very seriously. We believe that the peer-review publication process is a vital building block of academia, and its integrity must be maintained at all costs, which is why every article will be peer-reviewed by several experts in the field. Under peer-review, experts in the related fields are required to provide opinions and comments on the improvements of the submissions.

We are proud of our efforts towards abiding by the guidelines of ethics, integrity, and high standards in publishing.

Following are the ethics guidelines set by the organizers for the authors and the reviewers of the conference:

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Scientific committees consisting of experts in the fields are established. The committees oversee the peer-review and publication process. To see the scientific committee members, please follow the link: [Scientific Committee](#)

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One or more reviewer, scientific committee member, or chair, (internal or external), are responsible for evaluating the relevance of the submitted manuscripts to the proceedings, technical and scientific merit, originally, and impact. These evaluations are to be carried out regardless of ethnicity, religion, gender, sexual orientation, political beliefs, and institutions. Successive to peer-review, the Chair has full authority and is solely responsible for the published content and the process thereof.

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ETHICS & MALPRACTICE

Reviewers

Contribution to Decisions

In order for final decisions to be made regarding acceptance or rejection of papers, we rely on peer-review. Peer-review is the process of experts in the field reading, understanding, and objectively commenting on submitted papers. Through peer-review, scholars give back to the academic and scientific community by helping the chair(s) make decisions regarding manuscripts.

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Authors

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Only persons who have significantly contributed to the work and the manuscript can be named authors on a paper. These contributions include the idea/concept, design, experiments, evaluation, analysis, drafting or revision of the manuscript, and others. Authors must all have agreed to be named as such and for the manuscript to be submitted. Anyone who has contributed based on the above, but the level of contribution is not significant, may appear in the acknowledgement section of the manuscript.

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ETHICS & MALPRACTICE

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Errata and Retractions

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