

ISBA 2024 Tentative schedule for invited and contributed sessions (speakers and discussants)

Note: Schedule is subject to change.

Multitrack 1 (Tuesday July 2, 1:30pm)

- **Bayesian Causal Inference for Health-related Applications and Policy Intervention.** Francesca Dominici, Antonio Linero, Fabrizia Mealli, Cory Zigler.
- **Data Integration.** Paul Rognon, Roberta de Vito, Niccoló Anceschi, Giovanni Parmigiani.
- **Recent Advances in Bayesian Probabilistic Numerical Methods.** Chris Oates, Jon Cockayne, Masha Naslidnyk.
- **Markov Chain Monte Carlo: Methods and Applications.** Alexandre Bouchard, Galin Jones, Nianqiao Ju.
- **Bayesian Experimental Design for Sample Size Determination.** Kevin Wilson, Stefania Gubbiotti, Haiyan Zheng.
- **Advances in Econometrics.** Raquel Prado, Helga Wagner, Aubrey Poon, Dawid Bernaciak.
- **Recent advances in Bayesian clustering for complex data.** Alex Dombowsky, Gertraud Malsiner-Walli, Cecilia Balocchi, Raffaele Argiento.

Multitrack 2 (Tuesday July 2 5pm)

- **Panel discussion: Critical Role of Bayesian Thinking in the Health Care Decision-making.** Kannan Natarajan, Natalia Muhlemann, Mike Branson, Kelley Kidwell, Mark Whitlock.
- **Bridging the Gap: Bayesian Statistics and Machine Learning for Enhanced Data Modeling.** Ethan Goan, Qian Jin, Andrew Zammit-Mangion.
- **Bayesian Analysis of Network Data.** Martina Contisciani, Nial Friel, Federico Pavone.
- **Bayes in the Classroom: Examples, Tools, and Recommendations.** Bertil Wegmann Mine Dogucu Patricia Toledo.
- **Optimal Transport and Bayesian Learning.** Long Nguyen, Hugo Lavenant, Ricardo Baptista.
- **Advances in Causal inference.** Dafne Zorzetto, Carlos Cinelli, Hedibert Freitas Lopes, Andrej Srakar.
- **Pitfalls in Model-based Clustering (and how to mitigate them).** Alessandra Guglielmi Garritt Page Sally Paganin.

Multitrack 3 (Wednesday July 3, 9am)

- **Model Uncertainty in High-dimensional Non-Gaussian Regression Models (Bayesian Analysis invited session).** Jim Griffin, David Rossell, Gregor Zens, Merlise Clyde.
- **Bayesian Deep Learning.** Yingzhen Li, Alexander Immer, Mark van der Wilk, Stephan Mandt.
- **Bayesian Industrial Statistics.** Daniel García-Rasines, Jose M. Camacho, Pablo G. Arce, Refik Soyer.
- **Trees, Ensembles, and Bayesian Prediction.** Veronika Rockova, Hengrui Luo, Linxi Liu.

- **Sample Size Determination and Assessment of Design Operating Characteristics in Bayesian Clinical Trials.** Sudipto Banerjee, Annette Kopp-Schneider, Shirin Golchi, Silvia Calderazzo.
- **Advances in Bayesian Nonparametrics.** Clara Grazian, Maria De Iorio, Elizabeth Bersson, Xenia Miscouridou.
- **Robust and Privacy-Preserving Bayesian Inference.** Ayush Bharti, Jack Jewson, Jingchen (Monika) Hu, Fan Bu.

Multitrack 4 (Wednesday July 3, 1:30pm)

- **Novel and Flexible Bayesian Approaches for Causal Inference in Complex Settings.** Maria Josefsson, Ashkan Ertefaie, Herbert Susmann, Mike Daniels.
- **Advances in Optimization-Based Bayesian Inference.** Linda Tan Siew Li, Michael Stanley Smith, David John Nott, David Frazier.
- **Bayesian Statistical Methods to Operationalize Structural Racism: From Causal Mediation to Spatial Uncertainty and What Lies In Between.** Jarvis Chen, Andrew B. Lawson, Emily Peterson, Loni Philip Tabb.
- **Bayesian Methods in Ecology.** Bokgyeong Kang, Michele Peruzzi, Narmadha Meenu Mohankumar.
- **Well-Calibrated Bayesian Data Science in the Presence of Model Uncertainty: Contemporary Perspectives and Future Directions.** David Draper, Stephen G. Walker, David Blei.
- **Simulation-Based Inference.** Omar Melikechi, Umberto Picchini, Wentao Li, Matthew Sutton.
- **Recent Innovations in Econometrics.** Boyuan Zhang, Kaoru Irie, Karla Vianey Palacios Ramirez, Makoto Takahashi.

Multitrack 5 (Thursday July 4, 4:30pm)

- **Bayesian Learning in Highly Structured Latent Variable Models.** Nadja Klein, Sylvia Fruehwirth-Schnatter, Anindya Bhadra.
- **Panel Discussion: Which Future for ISBA Conferences?** Christian Robert, Ron Wasserstein, Kate Lee.
- **Bayesian Methods for Astrophysics Discovery based on Big Data.** Yang Chen, Sujit Ghosh, Kaisey Mandel, David van Dyk.
- **Monte Carlo Algorithms using Modern Hardware.** Matt Hoffman, Louis Grenioux, Nicolas Chopin.
- **Bayesian Methods for Biomedical Imaging Data.** Jeffrey S Morris, Laura D'Angelo, Veera Baladandayuthapani, Jaroslaw Harezlak.
- **Advances in Bayesian Modeling.** Marcio Alves Diniz, Alejandra Avalos-Pacheco, Bora Jin, Muhammad Shoaib.
- **Bayes in Practice: from Social Networks to Epidemiological Surveillance.** Brisilda Ndreka, Jennifer Hill, Saptarshi Roy, Leonardo Bastos.

Multitrack 6 (Friday July 5, 8:30am)

- **Savage Award Finalists: Applied Methodology.**
- **Advances in Latent Variable Modeling.** Elena Erosheva, Rayleigh Lei, Donatello Telesca.
- **Innovative Approaches to Model Selection and Clustering.** Francesca Zoe Ricci, Bryon Aragam, Francesco Gaffi.
- **Variational Inference: When, Why and Why Not?.** Charles Margossian, Tamara Broderick, Lu Zhang.

- **Bayesian Approaches to Statistical and Algorithmic Fairness.** Ioanna Manolopoulou, Christos Dimitrakakis, Silvia Chiappa, Kristian Lum.
- **Advances in Scalable Inference.** Matteo Gianella, Meini Tang, Mark Risser, Katja Ickstadt.
- **Advances in Objective Bayes.** Chetkar Jha, Dimitris Fouskakis, Daniel Roy, Saptati Datta.

Multitrack 7 (Friday July 5, 10:30am)

- **Savage Award Finalists: Theory and Methods.**
- **Bayesian Predictivism and Decision Analysis under Model Uncertainty: New Theory, Methodology and Macroeconomic Applications.** Emily Tallman, Tony Chernis, Niko Hauzenberger.
- **Advanced Bayesian Models for Climate and Energy Market Analysis.** Chiara Casoli, Luigi Gifuni, Luca Rossini, Daniele Valenti.
- **New Approaches for Bayesian Analysis of Complex Data Incorporating Fourier Space Analysis, Causality and Network Models.** John Kornak, Yanxun Xu, Sharmistha Guha.
- **Bayesian Statistical Demography.** Adrian Raftery, Andrea Riebler, Maciej Danko.
- **Advances in Sampling-Based Inference.** Alexandros Beskos, Fernando Antonio Zepeda Herrera, Paul Fearnhead, Jun Yang.
- **Clinical Research.** Massimiliano Russo, Victor Medina-Olivares, Ray Bai, Samuel Berchuck.

Multitrack 8 (Friday July 5, 3pm)

- **Recent Highlights from Biometrika.** Leah South, Tommaso Rigon, Giacomo Zanella.
- **Bayesian Sampling as an Optimisation Problem.** Sinho Chewi, Anna Koraba, Louis Sharrock.
- **Innovations in Spatial and Spatiotemporal Statistics and its Applications.** Toryn Schafer, Pulong Ma, Harrison Quick, Rajarshi Guhaniyogi.
- **Bayesian Nonlinear Inverse Problems.** Aad van der Vaart, Fanny Seizilles, Kolyan Ray.
- **Bayesian Decision Making and Learning: Theoretical Foundations and Approximate Inference.** Florence Forbes, Thomas Möllenhoff, Hien Nguyen, Judith Rousseau.
- **Advances in Computational Statistics.** Sameer Deshpande, Mikolaj Kasprzak, Chuxuan (Jessie) Jiang, Andrea Pandolfi.
- **Bayes in Industry.** Giulio Grossi, Rosangela Helena Loschi, Kevin Li.

Multitrack 9 (Saturday July 6, 8:30am)

- **Junior Advances in Scalable Bayesian Computational Methods.** Yuexi Wang, TBD, Paolo Ceriani, Gareth Roberts.
- **Discrete Random Structures in Bayesian Nonparametrics.** Lizhen Lin, Francesco Sanna Passino, Claudio Del Sole.
- **Bayesian Empirical Likelihood and Related Techniques.** Nicole Lazar, Steven N. MacEachern, Ryan Thompson.
- **Recent Development of Bayesian methods for complex spatial and imaging data analysis.** Huiyan Sang, David Dunson, Weining Shen, Michele Guindani.
- **Gaussian Processes.** Xinyi Xu, Francois Caron, Renato Berlinghieri, Francois-Xavier Briol.
- **Bayesian Methods: Pushing the Boundaries of Data Science.** Debajyoti Sinha, Candace Berrett, Vanda Inacio De Carvalho, Dipak Dey.

Multitrack 10 (Saturday July 6, 10:30am)

- **Bayesian Privacy.** James Bailie, Wanrong Zhang, Shenggang Hu, Stanislas du Ché.
- **Recent Advances in Incorporating Sample Design Effects and Spatial Structure into Small Area Estimation.** Malay Ghosh, Michael Elliott, Zhengyuan Zhu, Jon Wakefield.
- **Temporal Modeling in Bayesian Inference.** Beatrice Franzolini, Filippo Ascolani, Athanasios Kottas.
- **Are Likelihoods and Priors Necessary to Address Bayesian Inference?** Chris Holmes, Takuo Matsubara, Sonia Petrone.
- **Bayesian Computational Statistics.** Kamélia Daudel, Brandon Carter, Julie Zhang, Florence Bockting.
- **Asymptotics in Bayesian Statistics.** Botond Szabo, Conor Moriarty-Osborne, Paul Egels, Marion Naveau.
- **Graphical Modeling.** Stefano Peluso, Sylvia Richardson, Pariya Behrouzi, Xiaoyue Xi.

Multitrack 11 (Saturday July 6, 3pm)

- **Bayesian Nonparametric Approaches for Causal Inference with Real-World Complexities.** Liangyuan Hu, Chanmin Kim, Arman Oganisian.
- **Sampling-Based Bayesian Computation.** Francesca Romana Crucinio, Hai-Dang Dau, Sam Power.
- **Scalable Bayes for Omics Data Science.** Arinjita Bhattacharyya, Qiwei Li, Federico Ferrari.
- **Frontiers in Models Based on Gaussian Process Priors: Asymptotics, Applications, and Scalability.** Cheng Li, Nan Wu, Michael Minyi Zhang.
- **Climate Modeling.** Bruno Sanso, Marina Silva Paez, Gabriel Huerta, Shuang Zhou.
- **Advances in Variational Inference.** Alisa Sheinkman, Diana Cai, Zuheng (David) Xu, Daniel Dodd.