Bayes on the Beach 2026
Monday 9th February to Wednesday 11th February 2026
University of Wollongong, NSW

Conference Program

Day 1

Date: Monday, 9 February 2026
Location: Building 20, Room 1- University of Wollongong, NSW

09:00 AM Registration

09:20 AM Opening/Acknowledgement of Country

09:30 AM Sahani Pathiraja: *Wasserstein Fisher Rao gradient flows: Sequential Monte Carlo & Operator Splitting*

09:50 AM Noel Cressie: *The Mars Sample Return (MSR) mission: Bayesian statistics for planetary protection*

10:10 AM Chris Drovandi: *Preconditioned Robust Neural Posterior Estimation*

10:30 AM Morning Tea

11:00 AM **Invited Talk**: Dino Sejdinovic: *Causally Aligned Active Learning*

11:30 AM Jack Jewson: *Quasi-Bayesian Variable Selection: Model Selection without a Model*

11:50 AM Minh-Ngoc Tran: *Bures-Wasserstein Importance-Weighted Lower Bound: Exposition and Applications*

12:10 PM David T. Frazier: *Predictively Oriented Posteriors*

12:30 PM Lunch Break

02:00 PM **Workshop 1**: Nicholas Tierney: *Getting Started with Bayesian Modelling in greta: A Practical Introduction*

03:00 PM **Invited Talk**: Michael Smith: *Bayesian Additive Regression Tree Copula Processes for Scalable Distributional Prediction*

03:30 PM John Ormerod: *Moment propagation*

03:50 PM Afternoon Tea + **Poster session**

06:00 PM Beach Games at North Wollongong Beach near The Boathouse North Wollongong

07:00 PM Evening Social (pizza provided) at The Boathouse North Wollongong

Jointly organised by:

University of Wollongong Australia

QUT Centre for Data Science

Supported by:

Statistical Society of Australia

The New Zealand Statistical Association

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Day 2

Tuesday, 10 February 2026
Location: Building 20, Room 1- University of Wollongong, NSW

09:30 AM	**Keynote**: Sudipto Banerjee: How should spatial statistics embrace Artificial Intelligence? A case study in spatial energetics for mobile health applications.
10:30 AM	Morning Tea
11:00 AM	**Keynote**: Antonietta Mira
12:00 AM	**Invited Talk**: Fabrizio Ruggeri: *Modeling Power Outages under a Random Environment: A Bayesian Approach*
12:30 PM	Group Photo
12:35 PM	Lunch Break
02:00 PM	**Workshop 2**: Matthew Sainsbury-Dale: *"NeuralEstimators: Amortized simulation-based inference in Julia and R"*
03:00 PM	**Invited Talk**: Susan Wei: *A Principled Framework for Uncertainty Decomposition in TabPFN*
03:30 PM	Sumeetpal Singh: *Bayesian learning of the optimal action-value function in a Markov decision process*
03:50 PM	Afternoon Tea + **Poster session**

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Day 3

Date: Wednesday, 11 February 2026
Location: Building 20, Room 1 - University of Wollongong, NSW

9:30 AM	**Keynote**: Robert Kohn: *Calibrated Generalized Bayesian Inference*
10:30 AM	Matthew Sutton: *Enhanced MCMC: Fully Adaptive Sampling with PDMP Samplers*
10:50 AM	Morning Tea
11:20 AM	**Invited Talk**: Leah South: *Validating and improving Monte Carlo estimates in Bayesian inference*
11:50AM	Clara Grazian: *Approximate Bayesian Computation with Statistical Distances for Model Selection*
12:10 PM	Scott A. Sisson: *Variational transdimensional inference*
12:30 PM	Closing Lunch

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Poster Sessions

Poster Session Day 1 - 9th February 2026

1. Alejandra Avalos-Pacheco: Rotational Invariant Sparse Factor Models with the L1-Ball Prior
2. Junyu Xuan: Teleportative Stochastic Gradient MCMC for Bayesian Neural Networks
3. Wei-ming Luh: Bayesian Sample Size Planning for Cronbach Alpha
4. Selva Salimi: Bayesian Inference for Ordinary Differential Equations Models with Heteroscedastic Measurement Error
5. Tom Kimpson: Amortised Neural Posterior Estimation for Hybrid Viral Dynamics
6. Minh Long Nguyen: Variance Reduction for Bayesian Model Selection Methods
7. Souradipto Ghosh Dastidar: BOE-ED: A Bayesian Optimal Enrichment Design for Pragmatic Randomized Trials Leveraging External Data
8. Cash Looi: A Skew-Normal Multinomial Probit Model
9. Shelly Xie: Moment-Relevant Sensitivities for Bayesian Moment Condition Models
10. Moka Komaki: Bayesian Randomised Selection Design for Evaluation of Efficacy and Safety in Phase II Oncology Trials
11. Roslyn Lau: State Estimation of Multiple Manoeuvring Objects
12. Vinicius Riffel: Neural Data Augmentation for Parameter Inference from Incomplete Data
13. Bradley Wakefield: Bayesian Spatial Mixture Modelling for Seabed Sediment Characterisation with GeoMix
14. Arwen Nugteren: Hierarchical Bayes meets Hierarchical Forecasting: A Structured Global Forecasting Model
15. Trung Tin Nguyen: Towards Mathematical Foundations for Trustworthy and Scalable AI and Data Science through Multimodality and Sparsity in Bayesian and Frequentist Perspectives

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Poster Session Day 2 - 10th February 2026

1. Adam Bretherton: Flexible Transformations for Bayesian Scoring Rule Calibration
2. Narayan Srinivasan: Evaluating Sampling Quality in Discrete Binary Posteriors via the Gibbs, Stein Discrepancy
3. Mohammad Javad Davoudabadi: The Bayesian Pliable Lasso
4. Jeyamalar T Thurai RathnaM Estimating Cancer Burden at Different Spatial Scales in Australia and Communicating the Associated Impact of the Modifiable Areal Unit Problem (MAUP)
5. Mahdi Nouraie: Bayesian Stability Selection
6. Alex Liu: Advanced Probabilistic Modelling in Multimodal Biosensing: Towards Interpretable Inference of Latent Physiological States.
7. Sotirios Pestrivas: Applications of Bayesian Modelling in Sports Aerodynamics
8. Jiamin Xu: Prediction-Centric Calibration for Parameters Inference of ODE Models
9. Ruiting Mao: Inference from Imperfection: A Robust and Scalable SBI Framework for Time Series Data with Artefacts
10. Bao Anh Vu: Calibration of Ice-Sheet Models using a Hybrid Neural Ensemble Kalman Filter
11. Caitriona Ryan: Using Bayesian Adaptive Design of Experiments to Optimise Additive Manufacturing Processes
12. Paul Wu: Using Clusters to Reduce Computational Cost under Uncertainty in Dynamic Bayesian Networks
13. Sarah Lee: Bayesian Regression and Variable Selection for Joint Ordinal-Continuous Outcomes
14. David Rohde: Causal Inference Emerges Naturally as a Consequence of Bayesian Decision Theory
15. Ethan Water: TBC

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