Bayes Comp
2025
SINGAPORE
16 - 20 June

Poster Session List for Accepted Abstracts →

Contributed Talk/ Poster Submission has been closed on 1 March.

Instructions for Oral & Poster Presentation →

Programme

PRESENTATION INSTRUCTIONS

Conference Days

- **Satellite Workshop Day 1** 16 June 2025
- **Satellite Workshop Day 2** 17 June 2025
- **Conference Day 1** 18 June 2025
- **Conference Day 2** 19 June 2025
- **Conference Day 3** 20 June 2025

May subject to changes without prior notice

Satellite Workshop Day 1 - 16 June 2025

08:00am - 09:00am
Satellite Workshop 1:
Bayesian Computation and Inference with Misspecified Models
Auditorium 2

Registration & Networking

08:00am - 11:15am
Satellite Workshop 2:
Bayesian Methods for Distributional and Semiparametric Regression
LT50

Registration & Networking

09:00am – 09:45am
Satellite Workshop 1:
Bayesian Computation and Inference with Misspecified Models
Auditorium 2

Robust and Conjugate Gaussian Process Regression
Matias Altamirano,
University College London,
UNITED KINGDOM

09:45am – 10:30am
Satellite Workshop 1:
Bayesian Computation and Inference with Misspecified Models
Auditorium 2

Misspecification in Gaussian Process Regression
Assc Prof. Aretha Teckentrup,
University of Edinburgh,
UNITED KINGDOM

10:30am – 11:00am
Satellite Workshop 1:
Bayesian Computation and Inference with Misspecified Models

Auditorium 2

Break

11:00am – 11:45am

Satellite Workshop 1:
Bayesian Computation and Inference with Misspecified Models

Auditorium 2

Generalisation Analysis for Active Learning Under Model Misspecification
Roubing Tang,
University of Manchester,
UNITED KINGDOM

Multi-scale Uncertainties in Fracture Conductivity for CO2 Storage under Model Misspecification
Dr. Sarah Perez,
Heriot-Watt University,
UNITED KINGDOM

11:15am – 11:45am

Satellite Workshop 2:
Bayesian Methods for Distributional and Semiparametric Regression

LT50

Welcome & Opening Address
Prof. Nadja Klein,
Karlsruhe Institute of Technology,
GERMANY
Dr. Lucas Kock,
National University of Singapore,
SINGAPORE

11:45am – 12:30pm

Satellite Workshop 1:
Bayesian Computation and Inference with Misspecified Models

Auditorium 2

Robust Bayesian Inference with Possibility Theory
Asst Prof. Jeremie Houssineau,
Nanyang Technological University,
SINGAPORE

Satellite Workshop 2:
Bayesian Methods for Distributional and Semiparametric Regression

LT50

Deep Distributional Time Series Models and the Probabilistic Forecasting of Intraday Electricity Prices
Prof. Michael Stanley Smith,
University of Melbourne,
AUSTRALIA

12:30pm – 02:00pm

Lunch

02:00pm – 03:30pm

Satellite Workshop 1:
Bayesian Computation and Inference with Misspecified Models

Auditorium 2

A Principled Approach to Bayesian Transfer Learning
Adam Bretheron,
Queesnland University of Technology,
AUSTRALIA

Predictive Performance of Power Posteriors
Yann McLatchie,
University College London,
UNITED KINGDOM

A Unifying Framework for Generalised Bayesian Online Learning in Non-stationary Environments
Gerardo Duran-Martin,
Queen Mary University,
UNITED KINGDOM

02:00pm – 02:45pm
Satellite Workshop 2:
Bayesian Methods for Distributional and Semiparametric Regression

LT50

Varying-coefficients Bayesian models for Inference of Networks and Covariate Effects
Prof. Marina Vannucci,
Rice University,
UNITED STATES OF AMERICA

02:45pm – 03:30pm
Satellite Workshop 2:
Bayesian Methods for Distributional and Semiparametric Regression

LT50

Towards Flexibility and Efficiency of Gaussian Process State-Space Models
Dr. Zhidi Lin,
National University of Singapore,
SINGAPORE

03:30pm – 04:00pm
Break

04:00pm – 05:00pm
Satellite Workshop 1:
Bayesian Computation and Inference with Misspecified Models

Auditorium 2

Likelihood Distortion and Bayesian Local Robustness
Prof. Antonietta Mira,
Università Della Svizzera Italiana
ITALY

Satellite Workshop 2:
Bayesian Methods for Distributional and Semiparametric Regression

LT50

ProDAG: Projection-Induced Variational Inference for Directed Acyclic Graphs
Prof. Robert Kohn,
University of New South Wales,
AUSTRALIA

05:00pm – 06:00pm
Satellite Workshop 1:
Bayesian Computation and Inference with Misspecified Models

Auditorium 2

Model Misspecification in Martingale Posteriors
Asst Prof. Edwin Fong,
University of Hong Kong,
HONG KONG SAR, CHINA

04:45pm – 06:00pm
Satellite Workshop 2:
Bayesian Methods for Distributional and Semiparametric Regression

LT50

Copula-based Models for Spatially Dependent Cylindrical Data
Francesca Labanca,
University of Florence,
ITALY

Invited Sessions

(ALMOST) GRADIENT-BASED MARKOV CHAIN MONTE CARLO ALGORITHMS

SPEAKERS

- Dr. Francesca Romana Crucinio, King’s College London
- Dr. Zhihao Wang, University of Copenhagen
- Dr. Siddharth Vishwanath, University of California, San Diego

CHAIR/ORGANISER

- Dr. Dootika Vats, Indian Institute of Technology Kanpur

ADVANCED LANGEVIN METHODS FOR BAYESIAN SAMPLING

SPEAKERS

- Dr. Sam Power, University of Bristol
- Dr. Andi Wang, University of Warwick
- Dr. Peter Whalley, ETH Zurich

CHAIR/ORGANISER

- Dr. Neil K. Chada, City University of Hong Kong

ADVANCES IN EFFICIENT BAYESIAN INFERENCE FOR COMPLEX MULTIVARIATE MODELS

SPEAKERS

- Prof. Nadja Klein, Karlsruhe Institute of Technology, Germany
- Dr. Luca Maestrini, Australian National University, Australia
- Associate Prof. Hien Nguyen, La Trobe University, Australia

CHAIR/ORGANISER

- Dr. Linda Tan, National University of Singapore

ADVANCES IN HEAVY-TAILED SAMPLING: BRIDGING THEORY AND PRACTICE

SPEAKERS

- Dr. Federica Milinanni KTH Royal Institute of Technology
- Dr. Ye He, Georgia Institute of Technology
- Dr. Chang-Han Rhee, Northwestern University

CHAIR/ORGANISER

- Dr. Alex Shestopaloff, Queen Mary University of London
- Dr. Jun Yang, University of Copenhagen

ADVANCES IN MCMC METHODS

SPEAKERS

- Prof. Alexandros Beskos, University College London
- Prof. Antonietta Mira, Università della Svizzera italiana, Lugano and Insubria University, Como
- Dr. Pariya Behrouzi, Wageningen University and Research, The Netherlands

CHAIR/ORGANISER

- Prof. Maria De Iorio, National University of Singapore

ADVANCES IN METHODOLOGY FOR SEQUENTIAL MONTE CARLO IN HIGH DIMENSIONS

SPEAKERS

- Prof. Sumeetpal Singh, University of Wollongong
- Dr. Axel Finke, Loughborough University
- Prof. Victor Elvira, University of Edinburgh

CHAIR/ORGANISER

- Prof. Alexandros Beskos, University College London

ADVANCES IN VARIATIONAL INFERENCE

SPEAKERS

- Dr. Jeremias Knoblauch, University College London
- Dr. Charles Margossian, Flatiron Institute
- Dr. Kamélia Daudel, ESSEC Business School

CHAIR/ORGANISER

- Prof. Randal Douc, Télécom Sud Paris

APPROXIMATE METHODS FOR ACCELERATED SAMPLING

SPEAKERS

- Prof. Debdeep Pati, University of Wisconsin-Madison
- Associate Prof. Yun Yang, University of Maryland, College Park
- Dr. Leo Duan, University of Florida

CHAIR/ORGANISER

- Asst. Prof. Yuexi Wang, University of Illinois Urbana-Champaign

BAYESIAN COMPUTATION IN ASTROPHYSICS

SPEAKERS

- Dr. Avi Vajpeyi , University of Auckland
- Dr. Alvin Chua, National University of Singapore
- Dr. Joshua S. Speagle, University of Toronto

CHAIR/ORGANISER

- Dr. Kate Lee, University of Auckland

BAYESIAN FEDERATED LEARNING

SPEAKERS

- Dr. Louis Aslett, University of Durham, UK
- Dr. Conor Hassan, Aalto University
- Prof Jean-Michel Marin, Universite de Montpellier

CHAIR/ORGANISER

- Prof. Christian Robert

COMPARISON THEORY FOR MODERN MCMC METHODS

SPEAKERS

- Rocco Caprio, University of Warwick
- Dr. Guangyang Wang, University of Minnesota
- Associate Prof. Giacomo Zanella, Bocconi University

CHAIR/ORGANISER

- Dr. Andi Q. Wang, University of Warwick

COMPUTATION AND MODEL CRITICISM FOR HIGHLY PARAMETRIZED BAYESIAN MODELS

SPEAKERS

- Prof. Maria De Iorio, National University of Singapore
- Dr. Lucas Kock, National University of Singapore
- Prof. Michael Smith, University of Melbourne

CHAIR/ORGANISER

- Associate Prof. David Nott, National University of Singapore

COMPUTATION-ENABLED BAYESIAN INFERENCE AND PREDICTION

SPEAKERS

- Asst. Prof. Edwin Fong, Department of Statistics, University of Hong Kong
- Asst. Prof. Yan Shuo Tan, Department of Statistics, National University of Singapore
- Asst. Prof. Naoki Awaya, Faculty of Political Science and Economics, Waseda University, Japan

CHAIR/ORGANISER

- Prof. Li Ma, Duke University, USA

CUTTING FEEDBACK: METHODS AND APPLICATIONS IN BAYESIAN SETTINGS

SPEAKERS

- Dr. Mikolaj Kasprzak, ESSEC Business School, Paris
- Associate Prof. David Nott, National University of Singapore
- Dr. Pantelis Samartsidis, MRC Biostatistics Unit, University of Cambridge

DISCUSSANT

- Prof. Daniela De Angelis, MRC Biostatistics Unit, University of Cambridge

CHAIR

- Prof. Daniela De Angelis, MRC Biostatistics Unit, University of Cambridge

ORGANISERS

- Dr. Anne Presanis

FLEXIBLE APPROXIMATE INFERENCE METHODS

SPEAKERS

- Prof. Robert Kohn, University of New South Wales
- Dr. Linda Tan, National University of Singapore
- Dr. David Chen, National University of Singapore

CHAIR/ORGANISER

- Associate Prof. David Nott, National University of Singapore

HIGH-DIMENSIONAL DISCRETE MODEL SEARCH

SPEAKERS

- Prof. Yves Atchadé, Boston University
- Dr. Hyunwoong Chang, University of Texas at Dallas
- Dr. Déborah Sulem, Universitá de la Svizzera Italiana

CHAIR/ORGANISER

- Prof. David Rossell, Pompeu Fabra University

MANIFOLD MARKOV CHAIN MONTE CARLO AND BEYOND

SPEAKERS

- Dr. Mareike Hasenpflug, University of Passau
- Dr. Cameron Bell, University of Warwick
- Dr. Björn Sprungk, University of Freiberg

CHAIR/ORGANISER

- Prof. Daniel Rudolf, University of Passau

MODEL MISSPECIFICATION IN SIMULATION-BASED INFERENCE

SPEAKERS

- Associate Prof. François-Xavier Briol, University College London, UK
- Prof. Paul Bürkner, TU Dortmund University, Germany
- Dr. Antoine Wehenkel, Apple

CHAIR/ORGANISER

- Dr. Ayush Bharti, Aalto University, Finland

OPTIMIZATION AND CONTROL FOR SAMPLING

SPEAKERS

- Dr. Lorenz Richter, Zuse Institute Berlin
- Dr. Nikolas Nusken, King's College London
- Dr. Nikolay Malkin, University of Edinburgh

CHAIR/ORGANISER

- Associate Prof. Alexandre Thiery, National University of Singapore

PARALLEL COMPUTATIONS FOR MARKOV CHAIN MONTE CARLO

SPEAKERS

- Prof. Dootika Vats, Department of Mathematics and Statistics, Indian Institute of Technology
- Asst. Prof. Lu Yu, Department of Data Science, City University of Hong Kong
- Dr. Sebastiano Grazzi, Department of Decision Sciences, Bocconi University

CHAIR

- Dr. Charles Margossian, Flatiron Institute, Simons Foundation

ORGANISERS

- Dr. Sebastiano Grazzi

PDMPS IN PRACTICE

SPEAKERS

- Prof. Kengo Kamatani, The Institute of Statistical Mathematics
- Mr. Luke Hardcastle, University College London
- Dr. Jere Koskela, University of Newcastle

DISCUSSANT

- Dr. Sebastiano Grazzi, Bocconi University

CHAIR

- Dr. Sebastiano Grazzi, Bocconi University

ORGANISERS

- Mr. Luke Hardcastle

RECALIBRATION METHODS FOR IMPROVED BAYESIAN INFERENCE FROM APPROXIMATE MODELS

SPEAKERS

- Dr. Jeong E (Kate) Lee, University of Auckland
- Dr. Guilherme Souza Rodrigues, University of Brasilia
- Adam Bretherton, Queensland University of Technology

DISCUSSANT

- Prof. Scott Sisson, University of New South Wales

CHAIR/ORGANISER

- Dr. Joshua Bon, Université Paris Dauphine

RECENT ADVANCES IN SEQUENTIAL MONTE CARLO METHODS

SPEAKERS

- Prof. Pierre Del Moral, INRIA Bordeaux
- Dr. Adrien Corenflos, University of Warwick
- Asst. Prof. Ning Ning, Texas A&M University

CHAIR/ORGANISER

- Dr. Hai-Dang Dau, National University of Singapore

SCALABLE CAUSAL INFERENCE

SPEAKERS

- Prof. Michael J. Daniels, University of Florida
- Prof. Hui Guo, University of Manchester
- Dr. Jack Kuipers, ETH Zürich

CHAIR/ORGANISER

- Prof. Maria De Iorio, National University of Singapore

SIMULATION-BASED BAYESIAN INFERENCE: EFFICIENCY, ROBUSTNESS, AND THEORETICAL RESULTS

SPEAKERS

- Prof. David Frazier, Monash University
- Asst. Prof. Yuexi Wang, University of Illinois Urbana-Champaign
- Ryan Kelly, PhD student, Queensland University of Technology

DISCUSSANT

- Dr. Clara Grazian, University of Sydney

CHAIR/ORGANISER

- Prof. Chris Drovandi, Queensland University of Technology

SURROGATE MODELS AND KERNEL METHODS

SPEAKERS

- Prof. Dino Sejdinovic, University of Adelaide
- Dr. Karina Koval, Heidelberg University
- Dr. Aretha Teckentrup, University of Edinburgh

CHAIR/ORGANISER

- Prof. Chris. J. Oates, Newcastle University

VARIATIONAL BAYES FOR UNCERTAINTY QUANTIFICATION

SPEAKERS

- Associate Prof. Trevor Campbell, University of British Columbia
- Associate Prof. Tamara Broderick, Massachusetts Institute of Technology
- Dr. Yuling Yao, University of Texas, Austin

CHAIR/ORGANISER

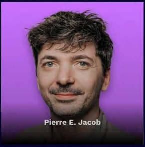
- Dr. Ryan Giordano and Dr. Alex Strang, University of California, Berkeley

About Bayes Comp

The biennial Bayes Comp meetings are organised by the Bayesian Computation Section of the International Society for Bayesian Analysis. Bayes Comp 2025 is the fourth conference in the series and is hosted by the Department of Statistics and Data Science at the National University of Singapore.

The Bayesian approach to learning from data has a very long history, but it has only flourished in modern applications with the use of modern computational tools. Bayes Comp 2025 gives a snapshot of the current state of the diverse and exciting field of Bayesian computation.

Keynote Speakers



09:10am – 10:00am
Auditorium 2

Keynote 1

Some progress on unbiased MCMC
Prof. Pierre E. Jacob,
ESSEC Business School, FRANCE

Chair:
Prof. Chris Oates,
Newcastle University, UNITED KINGDOM

Sylvia Frühwirth-Schnatter

09:10am – 10:00am
Auditorium 2

Keynote 2

A Dynamic Horseshoe Process Prior and Beyond
Prof. Sylvia Frühwirth-Schnatter,
WU Vienna University of Economics and Business, AUSTRIA

Chair:
Prof. Christian Robert,
Université Paris Dauphine, FRANCE
University of Warwick, UNITED KINGDOM

Emtiyaz Khan

09:00am – 10:00am
Auditorium 2

Keynote 3

Adaptive Bayesian Intelligence
Prof. Mohammad Emtiyaz Khan,
RIKEN Center for Advanced Intelligence Project, JAPAN

Chair:
Prof. David T. Frazier,
Monash University, AUSTRALIA

Organising Committee

Local organising committee

David Nott (Chair) (NUS)
Li Cheng (NUS)
Michael Choi (NUS)
Vik Gopal (NUS)
Jeremie Houssineau (NTU)
Maria De Iorio (NUS)
Adrian Roellin (NUS)
Linda Tan (NUS)
Yan Shuo Tan (NUS)
Alex Thiery (NUS)
Xin Tong (NUS)
Wu Zhengxiao (SMU)

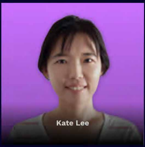
Scientific program committee

David Frazier and Leah South (Co-chairs)
Pierre Alquier (ESSEC Business School)
Taeryon Choi (Korea U)
Francesca Crucinio (University of Torino and Collegio Carlo Alberto)
Cathy Chen (Feng Chia U)
David Gunawan (U of Wollongong)
Kengo Kamatani (ISM)
Kate Lee (Auckland)
Kerrie Mengersen (QUT)
Christian P Robert (Paris Dauphine/Warwick)
Veronika Rockova (Chicago Booth)
Judith Rousseau (Paris Dauphine/Oxford)
Sumeetpal Singh (U of Wollongong)
Mike So (HKUST)
Dootika Vats (IIT Kanpur)

Respect Officers

ISBA has a code of conduct for meetings which can be found here In the event that you experience any harassment or violations of the code of conduct, you can approach one of the respect officers who have volunteered their help for the meeting. The respect officers for Bayes Comp 2025 are Kate Lee, Christian Robert and Linda Siew Li Tan, and they can be identified by the yellow straps for their registration tags. You may also approach any of the local organizers for assistance.

We thank the respect officers for their help, and hope everyone has a safe and enjoyable meeting.



Christian Robert

Linda Siew Li Tan

Satellite Workshops

Satellite Workshop 1

BAYESIAN COMPUTATION AND INFERENCE WITH MISSPECIFIED MODELS

https://postbayes.github.io/BayesMisspecificationSatellite/

A common justification for the use of Bayesian inference is that Bayes' theorem is the optimal way to update beliefs based on new observations, and that representing beliefs through a posterior distribution is desirable for uncertainty quantification. However, standard posterior distributions are only meaningful when the model or likelihood is well-specified, which is not the case in the presence of outliers, adversarial contaminations, or faulty measurement instruments. This realisation has led to an increased focus on generalisations of Bayesian inference which aim at obtaining 'generalised posterior distributions' providing some representation of uncertainty but also overcoming some the lack of robustness of standard posteriors. The aim of this workshop will be to give a broad overview of this topic, touching on both foundational questions and algorithmic advances, and inviting the Bayesian Computation community to take a more active role in solving some of the remaining open challenges in this area.

ORGANISERS

Associate Prof. François-Xavier Briol, University College London
Dr. Jack Jewson, Monash University
Dr Jeremias Knoblauch, University College London

Satellite Workshop 2

BAYESIAN METHODS FOR DISTRIBUTIONAL AND SEMIPARAMETRIC REGRESSION

https://kleinlab-statml.github.io/subpages_research/events/BayesComp2025.html

This satellite workshop aims to bridge the gap between computational and theoretical advancements and modern applications in Bayesian methods for distributional and semiparametric regression by bringing together leading experts in the field. Participants will benefit from talks that cover key tasks, such as model formulation, variable selection, inference techniques and associated computational challenges and practical implications. By highlighting the latest developments, this workshop will provide an overview of current research advancements, fostering discussions that inspire collaboration and innovation in advanced Bayesian regression.

ORGANISERS

Prof. Nadja Klein, Scientific Computing Center, Karlsruhe Institute of Technology, Germany
Dr. Lucas Kock, Department of Statistics and Data Science, National University of Singapore, Singapore

Presentation Instructions

CONGRATULATIONS! YOUR ABSTRACT HAS BEEN ACCEPTED!

Now it’s time to prepare your slides (Oral Session) or posters (Poster Session).
Read the instructions below to help you get ready!

(A) ORAL PRESENTATION

- The provisional session time slot is available at https://bayescomp2025.sg/#programme
- The finalised schedule will be announced closer to conference date.
- Please bring a copy of your presentation file on a USB memory stick to the venue in case it is lost or corrupted.

SESSION CHAIRS

Please arrive at the session you are chairing approximately 10 minutes prior to the start to make sure all the sessions presentations can be uploaded to the rooms IT facilities. Speakers will have the option to upload their slides - in pdf version - directly to the room's laptop (running Windows OS) or connect via their own device. As a default option, uploading all slides directly to the room's laptop would be safest, however, we understand that some speakers may want to use their own devices and are of course happy for you and your speakers to decide on how best to proceed.

Session times differ slightly across invited and contributed sessions.

- For invited sessions without a discussant, please keep each speaker to around 25 minutes so as to allow for audience Q&A at the end of the talk.
- For invited sessions with a discussant (taking place June 19 from 3.30-5.30), please keep each speaker to around 25 minutes to allow for a maximum 5 minute Q&A and to ensure the discussant has enough time to discuss the sessions contributions.
- For the "Parallel Contributed Paper Sessions (Day 1, 15.30-17.30)" session, please keep each speaker to around 15-18 minutes to allow for a 2-5 minute audience Q&A.
- For the contributed session on "Computationally Efficient Bayesian Inference (Day 3, 10.20- 11.50)", please ensure each presentation in the session is between around 25 minutes, to allow for a 5 minute audience Q&A.

The location and timing of your session will be available on the main conference website prior to the start of the conference. Thank you again for agreeing to chair a session at this year's conference.

SPEAKERS IN INVITED AND CONTRIBUTED SESSION

Please arrive at your session approximately 10 minutes prior to the start to ensure your presentations can be directly uploaded to the rooms presentation facilities. Speakers have the option to upload their slides - in pdf version - to the room's laptop (running Windows OS) or connect via their own device. When using the latter option, please ensure you bring an adapter capable of interfacing with an HDMI cable, which will be provided as part of each room's presentation facilities.

The location and timing of your session will be available on the main conference website prior to the start of the conference. Presentation lengths differ slightly depending on whether you are speaking in an invited or contributed session. The timing for each relevant permutation is as follows.

- If you are a speaker or discussant in an invited session, please ensure your presentation is around 25 minutes to allow for audience Q&A.
- If you are speaking in the "Parallel Contributed Paper Session (Day 1, 15.30- 17.30)", each speaker will have between 15-18 minutes to present their work, with a 2-5 minute Q&A to follow directly after each talk.
- If you are speaking in the contributed session on "Computationally Efficient Bayesian Inference (Day 3, 10.20- 11.50)", please ensure your presentation is around 25 minutes to allow for a five minute audience Q&A.

Thank you for participating in this year's conference.

POSTERS

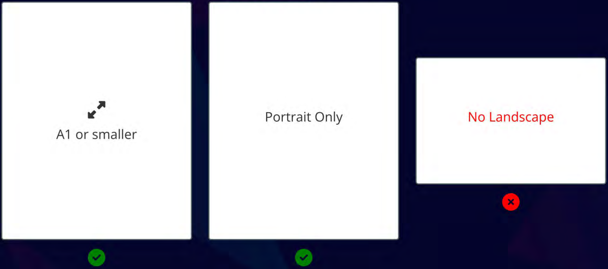
Poster sessions will be run on the first two days of the main conference, with both sessions taking place from 17:30-19:30. Please ensure your poster is set up and manned during your appointed poster slot.

- Posters will be affixed using system panels, with the posteriors mounted on the panels via velcro tape. The velcro tape will be provided by the conference and can be obtained from the registration counter prior to your poster session.
- For the poster session taking place on 18 June 2025, 5.30pm, posters can be mounted anytime from 8:30 on 18 June 2025. Please make sure to remove your poster by 20:00 (8pm) at the end of the session to ensure we can ready the panels for the next session. Posters that are not removed by this time will be removed and disposed of.
- For the poster session taking place on 19 June 2025, 5.30pm, posters can be mounted anytime from 8:30 on 19 June 2025. Please make sure to remove your poster by 20:00 (8pm) at the end of the session. Posters that are not removed by this time will be removed and disposed of.
- Posters must be printed in A1 (594 x 841mm / 23.4 x 33.1in) dimensions and portrait mode only. Due to space constraints we cannot accept landscape formatted posters.
- Please print the posters on thick paper and avoid fabric if possible.

The poster session will take place in the covered walkway directly outside the main conference venue. Singapore is known to be humid, so please dress appropriately.

If you need assistance or have any questions, please contact us at ceuevents@nus.edu.sg

(B) POSTER PRESENTATION



A1 or smaller ✓

Portrait Only ✓

No Landscape ✗

- Posters should be prepared and printed with final dimensions up to maximum ISO A1 size. Printing services will not be available at the conference venue.
  - Velcro will be provided.
  - All posters **must be in portrait**, strictly no landscape format allowed.
- **DO NOT USE FABRIC MATERIAL to print the posters**
- You may choose to use the provided template (A1-size) attached here to prepare your poster:
- All presenters are requested to be at your poster to answer questions during the Poster Session timings.
  - 18 June 2025, 1730 – 1930hrs
  Posters must be displayed from 0900 on 18 July 2025 and remove your poster by 2000 on 18 June 2025. The steering committee will dispose of any posters left after this time.
  - 19 June 2025, 1730 – 1930hrs
  Posters must be displayed from 0900 on 19 July 2025 and remove your poster by 2000 on 19 June 2025. The steering committee will dispose of any posters left after this time.
- Check your schedule and Poster locations here: https://bayescomp2025.sg/#poster-sessions

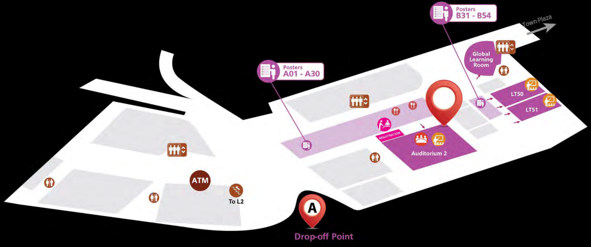
If you need assistance or have any questions, please contact us at ceuevents@nus.edu.sg

For printing options in Singapore (near campus), please consider the following options:

- **Xorex Press (West Coast Plaza)**
154 West Coast Road #02-30 West Coast Plaza, Singapore 127371
+65 6779 7989
https://maps.app.goo.gl/VXxq3ESCdbgJhJTc8?g_st=com.google.maps.preview.copy
- **Goh Bros E-Print Pte. Ltd. (Yusof Ishak House, NUS)**
Yusof Ishak House, 31 Lower Kent Ridge Rd, Level 5 #YIH-05-01
National University of Singapore, Singapore 119078
+65 6776 2900
https://maps.app.goo.gl/GAbojsnrxVXS1UQA8
- **Green Prints Services**
67 Ayer Rajah Crescent 07-10 Level, Take Lift, B 7, Singapore139950
+65 9757 8421
https://maps.app.goo.gl/pbRjawqLUUThwPNN7?g_st=com.google.maps.preview.copy

Please call and check the shop opening times before reaching.

Poster Sessions



18 Jun 2025, 5.30pm - 7.30pm

Poster	Title	Presenter	
A01	On A Modified Adaptive Progressive Censoring Scheme and Related Inferences	Abhimanyu Singh Yadav	Banaras Hindu University
A02	Computationally Efficient Multi-Level Gaussian Process Regression for Functional Data Observed Under Completely Or Partially Regular Sampling Designs	Adam Gorm Hoffmann	University of Copenhagen
A03	Advancing Estimation of Average Relative Humidity in The Usa Using Neutrosophic Stratified Ranked Set Sampling	Anamika Kumari	Manipal Academy of Higher Education
A04	MCMC Importance Sampling via Moreau-Yosida Envelopes	Apratim Shukla	IIT Kanpur
A05	Lower Bounds of Total Variation Distances for Multivariate Conditional Metropolis-Hastings Samplers	Arka Banerjee	IIT Kanpur
A06	Generalized Exponential Proportional Hazard Model for Joint Modelling of Longitudinal and Survival Data	Avinash Kumar	Banaras Hindu University
A07	Integrating Normative and Survival Modeling in MS via Bayesian Modularized Inference	Bernd Taschler	University of Oxford
A08	Computational and Statistical Guarantees for Star-Structured Variational Inference	Bohan Wu	Columbia University
A09	Particle-Based Inference for Continuous-Discrete State Space Models	Christopher Stanton	University College London
A10	Look Ma, No Sampling!	Colin Fox	University of Otago
A11	The ARR2 Prior: Flexible Predictive Prior Definition for Bayesian Auto-Regressions	David Kohns	Aalto University
A12	Exact Sampling of Spanning Trees Via Fast-forwarded Random Walks	Edric Tam	Stanford University
A13	Convergence of Statistical Estimators via Mutual information Bounds	EL Mahdi Khribch	Essec Business School
A14	Proper Random Walks An Enhanced Approach To Robust Spline Smoothing	Eman Kabbas	King Abdullah University of Science and Technology
A15	Calibration of Dose-Agnostic Priors for Bayesian Dose-Finding Trial Designs with Joint Outcomes	Emily Alger	Institute of Cancer Research
A16	Extending Bayesian Causal forests for Longitudinal Data Analysis: A Case Study in Multiple Sclerosis	Emma Prevot	University of Oxford
A17	Control Variate-Based Stochastic Sampling From The Probability Simplex	Francesco Barile	University of Milano-Bicocca
A18	Zero-Order Parallel Sampling	Francesco Pozza	Bocconi University
A19	Scalable MCMC Methods for Bayesian Blind Deconvolution	Guillermina Senn	Norges Teknisk-Naturvitenskapelige Universitet
A20	Online Filtering for Discretely-Observed Diffusions with Blocked Particle Filters	Hai-Dang Dau	National University of Singapore
A21	Orthogonal Polynomials Are All You Need: Skewed Posterior Approximations with Variational Bayes	Hans Montcho	King Abdullah University of Science and Technology
A22	Causal Inference for Longitudinal Multilevel Data - A Bayesian Semiparametric G-Computation Approach	Huixia Savannah Wang	Umeå School of Business, Economics and Statistics
A23	Enhanced Gaussian Process Surrogates for Optimization and Sampling By Pure Exploration	Hwanwoo Kim	Duke University
A24	Mixtures of Directed Graphical Models for Discrete Spatial Random Fields	J. Brandon Carter	University of Texas At Austin
A25	Bayesian Analysis of Clustered Data Within a Semi-Competing Risks Framework	Jinheum Kim	University of Suwon
A26	Bayesian Robust Inference for Doubly-intractable Distributions via Score Matching	Jiongran Wang	Texas A&M University
A27	On The forgetting of Particle Filters	Joona Karjalainen	University of Jyväskylä
A28	Sampling from High-Dimensional, Multimodal Distributions Using Automatically Tuned, Tempered Hamiltonian Monte Carlo	Joonha Park	University of Kansas

A29	Learning Misspecified Ode Models from Heterogeneous Data with Biology-informed Gaussian Processes	Julien Martinelli	Université De Bordeaux
A30	Nonparametric Bayesian Additive Regression Trees for Prediction and Missing Data Imputation in Longitudinal Studies	Jungang Zou	Columbia University
B31	Bayesian Combined Statistical Decision Limits with Covariates	Lian Mae T. Tabien	University of The Philippines Diliman
B32	Robust and Conjugate Gaussian Process Regression	Matias Altamiran	University College London
B33	Real-Time forecasting Livestock Disease Outbreaks with Approximate Bayesian Computation	Meryl Theng	The University of Melbourne
B34	Bayesian Crossover Trial with Binary Data and Extension to Latin-Square Design	Mingan Yang	University of New Mexico,
B35	The Polynomial Stein Discrepancy for Assessing Moment Convergence	Narayan Srinivasan	Queensland University of Technology
B36	Improving Variable Selection Properties By Using External Data	Paul Rognon-Vael	Universitat Pompeu Fabra
B37	Parallel Affine Transformation Tuning: Drastically Improving The Effectiveness of Slice Sampling	Philip Schär	Friedrich Schiller University Jena
B38	A Simple Bayesian Solution to Reducing The Factor Zoo	Robert I. Webb	University of Virginia
B39	Adaptive Shrinkage With A Nonparametric Bayesian Lasso	Santiago Marin	The Australian National University
B40	A Spatial-correlated Multitask Linear Mixed-effects Model for Imaging Genetics	Shufei Ge	ShanghaiTech University
B41	Iterated forward Scheme to Construct Proposals for Sequential Monte Carlo Algorithms	Sylvain Procope-Mamert	Université Paris-Saclay
B42	Real-Time Estimation of Gas Emission Sources Using Particle Filters and Neural Networks	Thomas Newman	Lancaster University
B43	Bayesian Computation for Partially Observed SPDEs	Thorben Pieper-Sethmacher	Delft University of Technology
B44	A General Framework for Probabilistic Model Uncertainty	Vik Shirvaikar	University of Oxford
B45	Bayesian Semiparametric Likelihood-Based Regression Inference for Optimal Dynamic Treatment Regimes	Weichang Yu	The University of Melbourne
B46	Robust and Conjugate Spatio-Temporal Gaussian Processes	William Laplante	University College London
B47	Information-Theoretic Classification of The Cutoff Phenomenon in Markov Processes	Youjia Wang	National University of Singapore
B48	A Novel Approach for Forecasting Non-Stationary Time Series: Utilization of a Variational Autoencoder Reflecting Seasonal Patterns	Young Eun Jeon	andong National University
B49	Robust Bayesian Methods Using Amortized Simulation-Based Inference	Yuyan Wang	National University of Singapore
B50	A Framework for Measuring Dependence of Partitions On Covariates in Mixture Models	Zhaoxi Zhang	University of Edinburgh
B51	Ensemble Filtering in Nonlinear Dynamical Systems: A Diffusion-based Approach	Zhidi Lin	National University of Singapore
B52	Sample Continuation in Bayesian Hierarchical Model via Variational Inference	Zilai Si	Northwestern University
B53	Nested Kernel Quadrature	Zonghao Chen	University College London

19 Jun 2025, 5.30pm - 7.30pm

Poster	Title	Presenter	
A01	Challenges and Insights from Non-Uniform Polytope Sampling	A. Stratmann	Forschungszentrum Jülich
A02	Bayesian Analysis of Historical Functional Linear Models	A.E. Clark	University of Cape Town
A03	Dual Multi-Outcome Transformation Causal Estimation Biomarkers Discovery Framework Using DNA Methylation Against RNA and Proteins Expression	Ala'a El-Nabawy	Northumbria University
A04	Mixing Time Bounds for The Gibbs Sampler Under Isoperimetry	Alexander Goyal	Imperial College London
A05	Variational Bayes Inference for Simultaneous Autoregressive Models with Missing Data	Anjana Wijayawardhana	University of Wollongong
A06	Approximating Bayesian Leave-One-Group-Out Cross-Validation	Anna Elisabeth Riha	Aalto University
A07	Computationally Efficient Bayesian Joint Modeling of Mixed-Type High-Dimensional Multivariate Spatial Data	Arghya Mukherjee	IIT Kanpur
A08	Decision Making Under Model Misspecification: DRO with Robust Bayesian Ambiguity Sets	Charita Dellaporta	University of Warwick and University College London
A09	Radial Neighbors for Provably Accurate Scalable Approximations of Gaussian Processes	Cheng Li	National University of Singapore
A10	A More Consistent Approximate Bayesian Framework for Learning the Optimal Action-Value Function in MDPs	Chon Wai Ho	University of Cambridge
A11	Bayesian Survival Model Updating Using Power Prior: Application to Cancer Data Analysis	Dahhay Lee	Yonsei University
A12	Approximate Bayesian Fusion	Filippo Pagani	University of Warwick
A13	The Spectrum of the Optimal Self-Regenerative and independent Metropolis Markov Chains with Applications to MCMC	Florian Maire	Université de Montréal
A14	Detecting Conflicts in Bayesian Hierarchical Models Using Score Discrepancies	Fuming Yang	University of Cambridge
A15	Decoding Socio-Economic inequalities in Uttar Pradesh: A Spatio-Temporal Study with Wroclaw Taxonomy and K-Means Clustering Techniques	Gaurav Chandrashekhar Hajare	Manipal Academy of Higher Education
A16	Scalable Bayesian Factor Models for Dimensionality Reduction in High-Dimensional Multimodal Data with Structured Missingness	George Hutchings	University of Oxford
A17	Simulation-Based Inference for Stochastic Nonlinear Mixed-Effects Models with Applications in Systems Biology	Henrik Häggström	Chalmers University of Technology and University of Gothenburg
A18	Bayesian Inference of a Nearest Neighbor Gaussian Process Model for Pooled Genetic Data	Imke Botha	University of Melbourne
A19	Branching Stein Variational Gradient Descent	Isaías Bañales	Kyoto University
A20	Novel Bayesian Algorithms for ARFIMA Long-Memory Processes: A Comparison Between MCMC and ABC Approaches	James Gabor	University of Sydney

A21	Scalable Bayesian Causal Inference for Uplift Modeling with Conformal Prediction	Jeong in Lee	Inha University
A22	Pareto Smoothed ABC-SMC	Jia Le Tan	University of Warwick
A23	Bayesian Neural Network Optimisation for Multi-Trait Parental Selection to Enhance Economic Gains in Animal and Plant Breeding	Jia Liu	Australian National University
A24	Accelerating Bayesian Inference for Sequential Data Batches in Epidemic Transmission Models	Joel Kandiah	University of Cambridge
A25	Reliable Chemical Toxicity Assessment Via Transformer Models and Conformal Prediction Methodology	Junhee Kim	Inha University
A26	Post-Bayesian Inference for Misspecified Cosmological Models	Kai Lehman	Ludwig Maximilian University of Munich
A27	A Data-Driven Approach To Bayesian Hierarchical Modelling and Bayesian Neural Networks for Critical Illness Risk Prediction	Kaitlyn Louth	University of Edinburgh and Heriot-Watt University,
A28	A Formal Method for Verifying Bayes Factor Computations Using Half-Order Moments	Kensuke Okada	The University of Tokyo
B29	Symmetrizing Variational Monte Carlo Solvers for The Many-Electron Schrödinger Equation	Kevin Han Huang	University College London
B30	Validation of Bayesian Population and Sub-Population Estimates	Lauren Kennedy	University of Adelaide
B31	Ensemble Control Variates	Long M. Nguyen	Queensland University of Technology
B32	Bayesian Perspectives on Data Augmentation for Deep Learning	Madi Matymov	King Abdullah University of Science and Technology
B33	Cohering Disaggregation and Uncertainty Quantification for Spatially Misaligned Data	Man Ho Suen	University of Edinburgh
B34	Scaling Laws for Uncertainty in Deep Learning	Mattia Rosso	King Abdullah University of Science and Technology
B35	GANs Secretly Perform Approximate Bayesian Model Selection	Maurizio Filippone	King Abdullah University of Science and Technology
B36	Projected and Updated L0 Criteria for Variable Selection in High-Dimensional and Large-Sample Regression Models	Maxim Fedotov	Universitat Pompeu Fabra
B37	Bayesian Ranking of Treatments for Static Evaluation and Adaptive intervention	Miguel R. Pebes-Trujillo	Nanyang Technological University
B38	Variable Selection and Estimation Using Nonlocal Prior Mixtures for Data with Widely Varying Effect Sizes	Nilotpal Sanyal	University of Texas at El Paso
B39	Adversarial Robustification of Bayesian Prediction Models	Pablo García Arce	Instituto de Ciencias Matemáticas
B40	Deterministic Posterior Approximations in Streaming Data Scenarios	Patric Dolmeta	Universita' di Torino
B41	Bayesian Analysis of Cumulative Damage Models with Continuous Damage Functions	Rijji Sen	University of Calcutta
B42	Creating Rejection-Free Samplers By Rebalancing Skew-Balanced Jump Processes	Ruben Seyer	Chalmers University of Technology and University of Gothenburg
B43	Exploring Bimodal Fertility Patterns: A Bayesian Mixture Density Approach	Shambhavi Singh	Banaras Hindu University
B44	Approximate Maximum Likelihood Estimation with Local Score Matching	Sherman Khoo	University of Bristol
B45	Digital Biomarker Construction Via Bayesian Motif-Based Clustering Method of Freeliving Physical Activity Data From Wearable Devices	Sin-Yu Su	National Taiwan University
B46	Learning The Learning Rate in Generalized Bayesian Inference	Sitong Liu	University of Oxford
B47	BMW: Inlier Prone Bayesian Models for Correlated Bivariate Data	Sumangal Bhattacharya	Indian Statistical Institute Delhi
B48	AI-Powered Bayesian Inference	Veronika Rockova	University of Chicago
B49	Bayesian Dynamic Generalized Additive Model for Mortality During COVID-19 Pandemic	Wei Zhang	Bocconi University
B50	Localized Transfer Learning in Non-Stationary Spatial Model with PM2.5 Data	Wenlong Gong	University of Houston System
B51	Predictive Performance of Power Posteriors	Yann McLatchie	University College London
B53	Measure Transport with Kernel Mean Embeddings	Linfeng Wang	King's College London
B54	Bayesian Empirical Likelihood with Expectation-Propagation	Kenyon Ng	Monash University

Registration Fees

Categories	**Regular registration (30 March - 15 June)**
Main Conference (16 - 20 June 2025) (Does not include access to Satellite Workshops)	

Non-Students	**Member of ISBA**	S$710
	Member of SBSS	S$850
	Non-member of ISBA/SBSS	S$930
Students	**Member of ISBA**	S$460
	Member of SBSS	S$500
	Non-member of ISBA/SBSS	S$530
Satellite Workshops (16 - 20 June 2025) (Does not include access to Main Conference)		
Non-Students	**Member of ISBA**	S$460
	Member of SBSS	S$520
	Non-member of ISBA/SBSS	S$600
Students	**Member of ISBA**	S$220
	Member of SBSS	S$260
	Non-member of ISBA/SBSS	S$300
Bayes Comp NUS Student Hostel Package **(15 June - 21 June)** **(Limited rooms available)**		S$260 for Student Hostel Package (5 days, 4 nights) S$370 for Student Hostel Package (7 days, 6 nights) NUS University Town (UTown), Kent Ridge Campus Register by 16 May 2025
Hotels (within 10km of NUS) **Direct booking with the hotel. Refer to link.** **(Breakfast to be purchased at the front desk)**		S$145++ to S$195++ Per Night • Park Avenue Rochester • Citadines Science Park *(Key in "BAYESCOMP25" under Promotion field to enjoy conference rates)*

NUS UTown Student Hostels

STANDARD ROOMS (AIR-CONDITIONED)

A single-person living space furnished with a single bed, a ceiling fan, a writing desk and chair, a bookshelf, a wardrobe and a mobile pedestal. Shower and toilet facilities as well as kitchenettes (at selected levels) are located along the common corridors or within the apartments. Kitchenettes are equipped with stoves and other kitchen appliances where residents can cook their own meals instead of eating out.

Student Hostel Rooms at NUS UTown, Kent Ridge Campus:

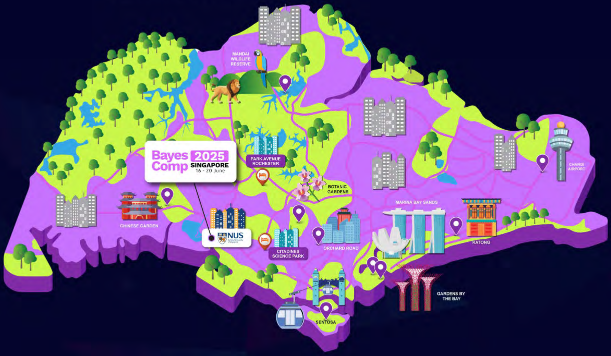
- As our hostels are gender specific, please indicate your birth gender during registration.
- If you are planning to check-in later than 15 June, please indicate in remarks when selecting your housing option.
- There will be no refund or discounted rate for late check-in or early check-out.
- Registration will close on **16 May 2025**.

Our budget-friendly accommodation option offers single occupancy rooms with shared bathroom facilities and come with single bed, one pillow, one blanket, one towel, a set of basic toiletries, a refillable water bottle and free wi-fi.

Off-Campus Accommodation

Optional External Hotel for all other participants (to book directly with hotel)

- Park Avenue Rochester
- Citadines Science Park Singapore



PARK AVENUE ROCHESTER
(8 MIN TO UTOWN)

$195++ per room *Superior King*	**$185++ per room** *Superior King*
$230++ per room *Superior Double*	**$190++ per room** *Superior Double*
With breakfast **To be purchased at the front desk*	*No breakfast*

Book Park Avenue Rochester

CITADINES SCIENCE PARK
(9 MIN TO UTOWN)

$170++ per room
Studio Twin

$190++ per room
Studio Executive - King Bed

$290++ per room
1 Bedroom Executive
w/ Fully equipped Kitchenette w/ Washer & Dryer

No breakfast
Wifi included

Book Citadines Science Park

Key in "BAYESCOMP25" under Promotion field to enjoy conference rates

Junior Travel Support

Bayes Comp 2025 will offer partial support for travel of selected PhD students and junior researchers who are presenting talks or posters to attend the meeting. This partial support is made possible by sponsorship from the International Society for Bayesian Analysis (ISBA) and the Bayesian Computation Section of ISBA

The amount of support will be up to USD250. Reimbursement will occur after the meeting, and receipts will be required. The instructions for how to obtain reimbursement will be shared with the successful applicants

Now Closed

Childcare Support

Bayes Comp 2025 will offer partial support for selected PhD students and junior researchers with young children (less than 13 years old) attending the meeting. This partial support is made possible by sponsorship from the International Society for Bayesian Analysis (ISBA) and the Bayesian Computation Section of ISBA

The amount of support will be up to USD250. Reimbursement will occur after the meeting, and receipts will be required to substantiate the amount spent on childcare. The instructions for how to obtain reimbursement will be shared with the successful applicants.

Now Closed

Contact Us

For general enquiries, please email to stabox20@nus.edu.sg

If you have questions regarding your registration and ticketing, please send an email to ceuevents@nus.edu.sg

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