

#BIBC2025 Schedule

Tuesday

Start	Arc Cinema	Theatrette
08:15	Conference Registration	
08:45	Opening remarks and housekeeping	
09:05	<i>Chair: Chris Brien</i>	
	On Finding Good Experiments by <i>Cheng Soon Ong</i>	
10:00	<i>Chair: Garth Tarr</i>	<i>Chair: Scott Foster</i>
	Data-Adaptive Automatic Threshold Calibration for Stability Selection by <i>Martin Huang</i>	Estimating abundance in small populations using pedigree reconstruction by <i>Sarah Croft</i>
	Variable Selection in a Joint Model for Huntington's Disease Data by <i>Rajan Shankar</i>	Accounting for heterogeneous detection rates when inferring eradication of an invasive species by <i>Sean A. Martin</i>
	StableMate: a regression framework for selecting stable predictors across heterogeneous data environments by <i>Yidi Deng</i>	Zero-inflated Tweedie distribution for abundance of rare ecological species by <i>Nokuthaba Sibanda</i>
11:00	Morning Tea	
11:30	<i>Chair: Alan Welsh</i>	<i>Chair: James Curran</i>
	Extending Spatial Capture-Recapture with the Hawkes Process by <i>Alec B. M. van Helsdingen</i>	Group Sampling with Imperfect Testing for Biosecurity Applications by <i>Adele Jackson</i>
	A Test for Detecting Multiple Clusters with Hotspot Spatial Properties by <i>Kunihiko Takahashi</i>	Koala Distribution and Abundance by <i>Scott D. Foster</i>
	Outlier-robust estimation of state-space models using a penalised approach by <i>Garth Tarr</i>	Speed: An R package for Spatially Efficient Experimental Designs by <i>Sam Rogers</i>
	Disease cluster detection via functional additive models incorporating spatial correlation by <i>Michio Yamamoto</i>	Running Human Subject Experiments via Online Crowdsourcing by <i>Patrick Li</i>

(continued)

Start	Arc Cinema	Theatrette
12:50	Lunch	
13:50	<i>Chair: Francis Hui</i> Bayesian clustered ensemble prediction for multivariate time series by Shonosuke Sugasawa The difficulties of clustering categorical or mixed data by Louise McMillan Species archetype models for presence-only data by Skipton N.C. Woolley and Scott Woolley	<i>Chair: Ruth Butler</i> Building Trust Without Peer Review: Establishing Reproducibility Standards in Industrial Statistical Consulting by Dean Marchiori Teaching Meta-Analysis for Systematic Reviewers with Mixed Statistical Training by Xu Ning Tales from the jungle: a personal perspective of statistical consulting since COVID by Alice Richardson Better Conversations, Better Support: Strengthening Consulting through Practical Education and Community by Sharon G. Nielsen
15:20	Afternoon Tea	
15:50	<i>Chair: Zhanglong Cao</i> Nested-factorial treatment models: types, their uses and examples by Chris Brien Integrating Spatial Data and On-Farm Experimentation to Understand Wheat Variety Performance Across Western Australia by Sandra K. Tanz Multi-environment trial analysis of count data with complex variance structures using generalised linear mixed models by Michael H. Mumford	<i>Chair: Graham Hepworth</i> Enhancing Fraud Detection in Banking through Random Survival Forests: Addressing Data Imbalance and Model Transparency by Arjun Sekhar Using point cloud data to discover genomic regions associated with dynamic height by Colleen H Hunt Automatic debiased machine learning (autoDML) for causal inference: implementation and evaluation in real-world observational studies by Tong Chen

Wednesday

Start	Arc Cinema	Theatrette
08:30	Conference Registration	
08:50	Housekeeping	
08:55	<i>Chair: Thomas Lumley</i>	
	Uses of gnm for Generalized (Non)linear Modelling by Heather L. Turner	
09:50	<i>Chair: David Warton (TBA)</i>	<i>Chair: Sam Rogers</i>
	Scalable finite mixture of regression models for clustering species responses in ecology by Francis KC Hui	Using a linear mixed model based wavelet transform to model non-smooth trends arising from designed experiments by Clayton Forknall
	Elastic Net Regularization for Vector Generalized Linear Models: A Flexible Framework for High-Dimensional Biomedical Data by Wenqi Zhao	Functional Data Analysis for the Australian Grains Industry by Braden J. Thorne
	Fitting Generalised Linear Mixed Models using Sequential Quadratic Programming by Peter Green	Bayesian Ordinal Regression for Crop Development and Disease Assessment by Zhanglong Cao
10:50	Morning Tea	
11:20	<i>Chair: Robert Clark</i>	<i>Chair: Linh Nghiem</i>
	Optimal allocation of resources between control and surveillance for complex eradication scenarios by Mahdi Parsa	Estimating extinction time from the fossil record using regression inversion by David I. Warton
	Inferring the rate of undetected contamination using random effects modelling of biosecurity screening histories by Sumonkanti Das and Robert Clark	The performance of Yu and Hoff's confidence intervals for treatment means in a one-way layout by Paul Kabaila
	Optimal sampling in border biosecurity: Application to skip-lot sampling by Raphael Trouve	Rate-optimal sparse gamma scale mixture detection by Michael Stewart
		Extension of the corrected score estimator in a Poisson regression model with a measurement error by Kentarou Wada
12:50	Lunch	
13:00	Social Activities	

Thursday

Start	Arc Cinema	Theatrette
08:30	Conference Registration	
08:50	Housekeeping	
08:55	<i>Chair: Warren Muller</i>	
	Modularizing Biometric Models Facilitates Multistage Computing by Mevin B. Hooten	
09:50	<i>Chair: Vanessa Cave</i>	<i>Chair: Alice Richardson</i>
	Visualize your fitted non-linear dimension reduction model in the high-dimensional data space by P. G. Jayani Lakshika	Reporting Odds Ratios under Fluctuating Reporting Rates in Spontaneous Reporting Systems by Tatsuhiko Anzai
	The geometry of diet: using projections to quantify the similarity between sets of dietary patterns by Beatrix Jones	Handling Missingness in Prevalence Estimates from National Surveys by Oyelola Adegbeye
	Multivariate meta-analysis methods for high-dimensional data by Alysha M. De Livera	Pooled testing with penalized regression models by Christopher Bilder
10:50	Morning Tea	
11:20	<i>Chair: Matthew Schofield</i>	<i>Chair: Chris Triggs</i>
	Integrated Species Distribution Models: A Single-Index Approach by Quan Vu	Crossvalidation for predictive models in complex survey data by Thomas Lumley
	Simultaneous Inference for Latent Variable Predictions in Factor Analytic Models by Zhining Wang	A Set of Precise Asymptotics for Gaussian Variational Approximation in Generalised Linear Mixed Models by Nelson J. Y. Chua
	Model-based assessment of functional and phylogenetic diversity by Shaoqian Huang	An allometric differential equation model quantifies energy trade-offs between growth and reproduction under temperature variation by Hideyasu Shimadzu
	Fitting integrated species distribution models using mgcv by Elliot Dovers	A circular hidden Markov model for directional time series data by A.A.P.N.M. Perera
12:40	Lunch	
13:00	AGM	
13:40	<i>Chair: Emi Tanaka</i>	<i>Chair: Sam Mason (TBA)</i>

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Start	Arc Cinema	Theatrette
	Evaluating the impact of trait measurement error on genetic analysis of computer vision-based phenotypes by Gota Morota	Do Mice Matter? The Impact of Mice on a New Zealand Ecosanctuary by Vanessa Cave
	Predication of Daily Weight Gain with Cattle Behaviour and Daily Activity Using Triaxial Accelerometer Data by Shuwen Hu and Antonio Hu	Modelling Species Diversity from Citizen-Science Bird Counts by Graham Hepworth
	Fishing for Heritability in the Gill Microbiome: Why Statisticians Should get out into the field by Elle Saber	Continental-Scale Bayesian Analysis of Acacia Flowering Phenology: A Novel Framework Integrating Phylogenetic Signal and Circular Statistics by Owen Forbes
15:10	Afternoon Tea	
15:40	Chair: Julian Taylor (TBA) The *equalto* covariance structure for meta-analysis using the 'glmmTMB' R package by Coralie C. Williams Simulation-based Inference about Variance Components by Farwa Saleem	Chair: Oyelola Adegbeye Extending diagnostic validity meta-analysis to several diagnostic guidelines by Alain C. Vandal Risk of Guillain-Barré Syndrome after COVID-19 vaccination and SARS-CoV-2 infection: A multinational self-controlled case series study by Han Lu
	A Proportional Random Effect Block Bootstrap for Highly Unbalanced Clustered Data by Zhi Yang Tho	Childhood Risk and Resilience Factors for Pasifika Youth Respiratory Health: Accounting for Attrition and Missingness by Siwei Zhai A missing data detective story how I navigated through a perfect storm of drop-outs, COVID and informative missingness. by Eve Slavich
18:30	Conference Dinner	

Friday

Start	Arc Cinema	Theatrette
08:40	Conference Registration	
09:00	Housekeeping	
09:05	Chair: Louise McMillan (TBA)	
	Saddlepoint approximations for likelihoods by Jesse Goodman	
10:00	Chair: Yidi Deng	Chair: David Baird
	False Discovery Rate Controlled Robust Variable Selection under Cellwise Contamination by Xiaoya Sun	Genstat Markdown: Reproducible Research with Genstat by James M. Curran
	A covariate-adaptive test for replicability across multiple studies with false discovery rate control by Dennis Leung	The 4S method for the longitudinal analysis of multidimensional questionnaires: application to Parkinsons disease progression from patient perception by Tiphaine Saulnier
	A semi-supervised framework for diverse multiple hypothesis testing scenarios by Jack Freestone	'heritable' An R package for heritability calculations for plant breeding trials by Fonti Kar
11:00	Morning Tea	
11:30	Chair: James Curran	
	Optimizing Research Impact Through Interdisciplinary and Collaborative Research by Charmaine B. Dean	
12:20	Closing Ceremony	
12:30	Lunch	