

#BIBC2025 Schedule

Please note that the times are indicative and may have some small variations.

Tuesday

Start	Arc Cinema	Theatrette
08:15	Conference Registration	
08:45	Opening remarks and housekeeping	
09:05	Keynote – Chair: Emi Tanaka On Finding Good Experiments by <i>Cheng Soon Ong</i> (~09:05–09:55)	
10:00	Session 1A – Chair: Garth Tarr Data-Adaptive Automatic Threshold Calibration for Stability Selection by <i>Martin Huang</i> (~10:00–10:20) Variable Selection in a Joint Model for Huntington’s Disease Data by <i>Rajan Shankar</i> (~10:20–10:40) StableMate: a regression framework for selecting stable predictors across heterogeneous data environments by <i>Yidi Deng</i> (~10:40–11:00)	Session 1B – Chair: Scott Foster Estimating abundance in small populations using pedigree reconstruction by <i>Sarah Croft</i> (~10:00–10:20) Accounting for heterogeneous detection rates when inferring eradication of an invasive species by <i>Sean A. Martin</i> (~10:20–10:40) Zero-inflated Tweedie distribution for abundance of rare ecological species by <i>Nokuthaba Sibanda</i> (~10:40–11:00)
11:00	Morning Tea	
11:30	Session 2A – Chair: Alan Welsh Extending Spatial Capture-Recapture with the Hawkes Process by <i>Alec B. M. van Helsdingen</i> (~11:30–11:50) A Test for Detecting Multiple Clusters with Hotspot Spatial Properties by <i>Kunihiko Takahashi</i> (~11:50–12:10)	Session 2B – Chair: James Curran Group Sampling with Imperfect Testing for Biosecurity Applications by <i>Adele Jackson</i> (~11:30–11:50) Koala Distribution and Abundance by <i>Scott D. Foster</i> (~11:50–12:10)

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Start	Arc Cinema	Theatrette
	Outlier-robust estimation of state-space models using a penalised approach by <i>Garth Tarr</i> (~12:10–12:30)	Speed: An R package for Spatially Efficient Experimental Designs by <i>Julian Taylor</i> (~12:10–12:30)
	Disease cluster detection via functional additive models incorporating spatial correlation by <i>Michio Yamamoto</i> (~12:30–12:50)	Running Human Subject Experiments via Online Crowdsourcing by <i>Patrick Li</i> (~12:30–12:50)
12:50	Lunch	
13:50	Invited Session: A Cluster of Modern Clustering Methods for Biometrics – Chair: <i>Francis Hui</i>	Session 3B – Chair: <i>Ruth Butler</i>
	Bayesian clustered ensemble prediction for multivariate time series by <i>Shonosuke Sugasawa</i> (~13:50–14:20)	Building Trust Without Peer Review: Establishing Reproducibility Standards in Industrial Statistical Consulting by <i>Dean Marchiori</i> (~13:50–14:10)
	The difficulties of clustering categorical or mixed data by <i>Louise McMillan</i> (~14:20–14:50)	Teaching Meta-Analysis for Systematic Reviewers with Mixed Statistical Training by <i>Xu Ning</i> (~14:10–14:30)
	Species archetype models for presence-only data by <i>Skipton N.C. Woolley</i> (~14:50–15:20)	Tales from the jungle: a personal perspective of statistical consulting since COVID by <i>Alice Richardson</i> (~14:30–14:50)
		Better Conversations, Better Support: Strengthening Consulting through Practical Education and Community by <i>Sharon G. Nielsen</i> (~14:50–15:10)
15:20	Afternoon Tea	
15:50	Session 4A – Chair: <i>Zhanglong Cao</i>	Session 4B – Chair: <i>Graham Hepworth</i>
	(CANCELLED) Nested-factorial treatment models: types, their uses and examples by <i>Chris Brien</i> (~15:50–16:10)	Enhancing Fraud Detection in Banking through Random Survival Forests: Addressing Data Imbalance and Model Transparency by <i>Arjun Sekhar</i> (~15:50–16:10)

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Start	Arc Cinema	Theatrette
	Integrating Spatial Data and On-Farm Experimentation to Understand Wheat Variety Performance Across Western Australia by <i>Sandra K. Tanz</i> (~16:10–16:30)	Using point cloud data to discover genomic regions associated with dynamic height by <i>Colleen H Hunt</i> (~16:10–16:30)
	Multi-environment trial analysis of count data with complex variance structures using generalised linear mixed models by <i>Michael H. Mumford</i> (~16:30–16:50)	Automatic debiased machine learning (autoDML) for causal inference: implementation and evaluation in real-world observational studies by <i>Tong Chen</i> (~16:30–16:50)

Tuesday Poster Session

- Location: Gallery
- Time: 17:00–19:00

1. **Using atmospheric transport models to predict species incursions in northern Australia** by *Zhenhua (Iris) Hao Dr*
2. **Visualisation of multinomial multilevel time-series modelling with application to current smoking status** by *Alice Richardson*
3. **Paired Comparison with Cyclic Dominance: An Extension of the Bradley–Terry Model** by *Yuki Ohno*
4. **Cleaning Text Data with Large Language Models** by *Jiajia Li*
5. **ggincerta: An R Package for Uncertainty Visualisation with a Layered Grammar of Graphics** by *Xueqi Ma*
6. **The “Theory of Sampling” (ToS) - have statisticians missed the boat?** by *Damian Collins*
7. **Evaluating Diagnostic Performance via Bayesian F_1 Score Estimation without a Gold Standard** by *Jun Tamura*
8. **Evaluating Remote Monitoring in Automated Peritoneal Dialysis: A Difference-in-Differences Analysis** by *Annie Conway*
9. **Judgement Post-Stratification for Covariate Adjustment in Pairwise Comparisons in Block Designs** by *Sam Rogers*
10. **Bayesian inference for sparse Gaussian copula graphical model** by *Tomotaka Momozaki*
11. **Visualization for departures from symmetry with the power-divergence-type measure in square contingency tables** by *Wataru Urasaki*
12. **Performance of Factor Analytic Mixed Models and Plackett–Luce Models for Genotype Ranking in Multi-Environment Trials** by *Jiazhe Lin*

Wednesday

Start	Arc Cinema	Theatrette
08:20	Conference Registration	
08:50	Housekeeping	
08:55	Keynote – Chair: Thomas Lumley Uses of gnm for Generalized (Non)linear Modelling by Heather L. Turner (~08:55–09:45)	
09:50	Session 5A – Chair: David Warton Scalable finite mixture of regression models for clustering species responses in ecology by Francis KC Hui (~09:50–10:10) Elastic Net Regularization for Vector Generalized Linear Models: A Flexible Framework for High-Dimensional Biomedical Data by Wenqi Zhao (~10:10–10:30) (CANCELLED) Fitting Generalised Linear Mixed Models using Sequential Quadratic Programming by Peter Green (~10:30–10:50)	Session 5B – Chair: Michael Mumford Using a linear mixed model based wavelet transform to model non-smooth trends arising from designed experiments by Clayton Forknall (~09:50–10:10) Functional Data Analysis for the Australian Grains Industry by Braden J. Thorne (~10:10–10:30) Bayesian Ordinal Regression for Crop Development and Disease Assessment by Zhanglong Cao (~10:30–10:50)
10:50	Morning Tea	
11:20	Invited Session: Statistics for Biosecurity Surveillance – Chair: Robert Clark Optimal allocation of resources between control and surveillance for complex eradication scenarios by Mahdi Parsa (~11:20–11:50) Inferring the rate of undetected contamination using random effects modelling of biosecurity screening histories by Sumonkanti Das and Robert Clark (~11:50–12:20) Optimal sampling in border biosecurity: Application to skip-lot sampling by Raphael Trouve (~12:20–12:50)	Session 6B – Chair: Linh Nghiem Estimating extinction time from the fossil record using regression inversion by David I. Warton (~11:20–11:40) The performance of Yu and Hoff's confidence intervals for treatment means in a one-way layout by Paul Kabaila (~11:40–12:00) Rate-optimal sparse gamma scale mixture detection by Michael Stewart (~12:00–12:20) Extension of the corrected score estimator in a Poisson regression model with a measurement error by Kentarou Wada (~12:20–12:40)

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Start	Arc Cinema	Theatrette
12:50	Lunch	
13:00	Social Activities	
18:30	Young (at heart) Biometrician Social Event	

Thursday

Start	Arc Cinema	Theatrette
08:20	Conference Registration	
08:50	Housekeeping	
08:55	Keynote – Chair: Beatrix Jones Modularizing Biometric Models Facilitates Multistage Computing by <i>Mevin B. Hooten</i> (~08:55–09:45)	
09:50	Session 7A – Chair: Vanessa Cave Visualize your fitted non-linear dimension reduction model in the high-dimensional data space by <i>P. G. Jayani Lakshika</i> (~09:50–10:10) The geometry of diet: using projections to quantify the similarity between sets of dietary patterns by <i>Beatrix Jones</i> (~10:10–10:30) Multivariate meta-analysis methods for high-dimensional data by <i>Alysha M. De Livera</i> (~10:30–10:50)	Session 7B – Chair: Alice Richardson Reporting Odds Ratios under Fluctuating Reporting Rates in Spontaneous Reporting Systems by <i>Tatsuhiko Anzai</i> (~09:50–10:10) Handling Missingness in Prevalence Estimates from National Surveys by <i>Oyelola Adegboye</i> (~10:10–10:30) Pooled testing with penalized regression models by <i>Christopher Bilder</i> (~10:30–10:50)
10:50	Morning Tea	
11:20	Session 8A – Chair: Matthew Schofield Integrated Species Distribution Models: A Single-Index Approach by <i>Quan Vu</i> (~11:20–11:40) Simultaneous Inference for Latent Variable Predictions in Factor Analytic Models by <i>Zhining Wang</i> (~11:40–12:00) Model-based assessment of functional and phylogenetic diversity by <i>Shaoqian Huang</i> (~12:00–12:20) Fitting integrated species distribution models using mgcv by <i>Elliot Dovers</i> (~12:20–12:40)	Session 8B – Chair: Chris Triggs Crossvalidation for predictive models in complex survey data by <i>Thomas Lumley</i> (~11:20–11:40) A Set of Precise Asymptotics for Gaussian Variational Approximation in Generalised Linear Mixed Models by <i>Nelson J. Y. Chua</i> (~11:40–12:00) An allometric differential equation model quantifies energy trade-offs between growth and reproduction under temperature variation by <i>Hideyasu Shimadzu</i> (~12:00–12:20) A circular hidden Markov model for directional time series data by <i>A.A.P.N.M. Perera</i> (~12:20–12:40)
12:40	Lunch	
12:50	AGM	

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Start	Arc Cinema	Theatrette
13:40	Invited Session: Methods and Practice in Agricultural Analytics – Chair: Emi Tanaka Evaluating the impact of trait measurement error on genetic analysis of computer vision-based phenotypes by <i>Gota Morota</i> (~13:40–14:10) Predication of Daily Weight Gain with Cattle Behaviour and Daily Activity Using Triaxial Accelerometer Data by <i>Shuwen Hu</i> (~14:10–14:40) Fishing for Heritability in the Gill Microbiome: Why Statisticians Should get out into the field by <i>Elle Saber</i> (~14:40–15:10)	Session 9B – Chair: Sam Mason Do Mice Matter? The Impact of Mice on a New Zealand Ecosanctuary by <i>Vanessa Cave</i> (~13:40–14:00) Modelling Species Diversity from Citizen-Science Bird Counts by <i>Graham Hepworth</i> (~14:00–14:20) Continental-Scale Bayesian Analysis of Acacia Flowering Phenology: A Novel Framework Integrating Phylogenetic Signal and Circular Statistics by <i>Owen Forbes</i> (~14:20–14:40) Spatio-Temporal Species Distribution Modelling by <i>Sam Mason</i> (~14:40–15:00)
15:10	Afternoon Tea	
15:40	Session 10A – Chair: Julian Taylor The <i>equalto</i> covariance structure for meta-analysis using the glmmTMB R package by <i>Coralie C. Williams</i> (~15:40–16:00) A Proportional Random Effect Block Bootstrap for Highly Unbalanced Clustered Data by <i>Zhi Yang Tho</i> (~16:00–16:20) Extending diagnostic validity meta-analysis to several diagnostic guidelines by <i>Alain C. Vandal</i> (~16:20–16:40)	Session 10B – Chair: Arjun Sekhar Risk of Guillain-Barré Syndrome after COVID-19 vaccination and SARS-CoV-2 infection: A multinational self-controlled case series study by <i>Han Lu</i> (~15:40–16:00) Childhood Risk and Resilience Factors for Pasifika Youth Respiratory Health: Accounting for Attrition and Missingness by <i>Siwei Zhai</i> (~16:00–16:20) A missing data detective story – how I navigated through a perfect storm of drop-out's, COVID and informative missingness. by <i>Eve Slavich</i> (~16:20–16:40)
18:30	Conference Dinner	

Friday

Start	Arc Cinema	Theatrette
08:30	Conference Registration	
09:00	Housekeeping	
09:05	Keynote – Chair: Louise McMillan	
	Saddlepoint approximations for likelihoods by <i>Jesse Goodman</i> (~09:05–09:55)	
10:00	Session 11A – Chair: Yidi Deng	Session 11B – Chair: David Baird
	False Discovery Rate Controlled Robust Variable Selection under Cellwise Contamination by <i>Xiaoya Sun</i> (~10:00–10:20)	Genstat Markdown: Reproducible Research with Genstat by <i>James M. Curran</i> (~10:00–10:20)
	A covariate-adaptive test for replicability across multiple studies with false discovery rate control by <i>Dennis Leung</i> (~10:20–10:40)	The 4S method for the longitudinal analysis of multidimensional questionnaires: application to Parkinson’s disease progression from patient perception by <i>Tiphaine Saulnier</i> (~10:20–10:40)
	A semi-supervised framework for diverse multiple hypothesis testing scenarios by <i>Jack Freestone</i> (~10:40–11:00)	heritable An R package for heritability calculations for plant breeding trials by <i>Fonti Kar</i> (~10:40–11:00)
11:00	Morning Tea	
11:30	Keynote – Chair: James Curran	
	Optimizing Research Impact Through Interdisciplinary and Collaborative Research by <i>Charmaine B. Dean</i> (~11:30–12:20)	
12:20	Closing Ceremony	
12:40	Lunch	