**[Tuesday 24/11](https://nzsa2020.nz/sched.php" \l "day1)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Time** | **Tuesday 24/11** | | |
| **855** | Housekeeping | | |
| **900** | **Education, democratizing data, and software: Targeting the intersection Chris Wild University of Auckland MLT2/303-102** | | |
| **950** | **Morning Tea (30 minutes)** | | |
|  | **MLT2/303-102** | **MLT3/303-103** | **SLT1/303-G01** |
| **1030** | A Platform for Large-Scale Statistical Modelling using R: Preliminary Results **Jason Cairns** *University of Auckland* | Tree based credible set estimation **Kate Lee** *University of Auckland* | A framework to evaluate imputation strategies at Stats NZ **Felipa Zabala** *Stats NZ* |
| **1050** | Constrained Maximum Likelihood for Correlated Data **Yu Jin Kim** *University of Auckland* | A Continuous-time, discrete-space model of marine mammal exposure to Navy sonar **Charlotte M. Jones-Todd** *University of Auckland* | A machine learning model to identify private dwellings from admin data **Susmita Das** *Stats NZ* |
| **1110** | Genealogies in branching populations: Many spines make light work... **Simon Harris** *University of Auckland* | Optimal sampling of generalized raking estimators for regression modelling in two-phase designs **Tong Chen** *University of Auckland* | Interactive Visualisation using RCloud **Simon Urbanek** *University of Auckland* |
|  | **MLT2/303-102** | **MLT3/303-103** | **SLT1/303-G01** |
| **1130** | Accessing evidence of firing pin impression by using machine learning. **Jason Wen** *University of Auckland* | The need for speed in Genomics: Comparing Bayesian algorithms to estimate polygenic effects **Roy Costilla** *University of Queensland* |  |
| **1150** | Optimization of Inductive Linearisation – application to the Michalis–Menten model **Sepi Sharif** *University of Otago* | Modelling for COVID in Official Economic Time Series **Richard Penny** *Stats NZ* |  |
| **1210** | **Lunch with AGM (1 hour 30 minutes) AGM in MLT2/303-102** | | |
|  |  | | |
|  |  | | |
| **1340** | **A lifetime of data - Biometrics Technician to Senior Applied Statistician Maree Luckman Fonterra MLT2/303-102** | | |
|  | **MLT2/303-102** | **MLT3/303-103** | **SLT1/303-G01** |
| **1430** | Designed experiments for tuning hyperparameters in machine learning algorithms **Agnes Yongshi Deng** *University of Auckland* | There and back again: A statisticians journey into the `real world' and back to academia. **Andrew Balemi** *University of Auckland* | Testing the confidentiality of synthetic data for the Stats NZ Integrated Data Infrastructure (IDI) Population Explorer dataset **Alistair Ramsden** *Stats NZ* |
| **1450** | Online and alone: Designing positive first experiences with computer programming for statistics students learning remotely **Anna Fergusson** *University of Auckland* | Using Bayesian Growth Models to Predict Grape Yield **Rory Ellis** *Fonterra* | Data is a taonga: using data in a Aotearoa/New Zealand context **Linley Jesson** *Plant and Food Research* |
| **1510** | The Future of Statistics at New Zealand Universities **Martin Hazelton** *University of Otago* | The Implementation of Biological Models for the Probabilistic Interpretation of NGS aSTR Mixtures **Kevin Cheng** *University of Auckland* | clustglm and clustord: 2 R packages for model-based clustering of binary, count and ordinal data with covariates **Louise McMillan** *Victoria University of Wellington* |
| **1530** | **Afternoon tea (20 minutes)** | | |
|  | **MLT2/303-102** | **MLT3/303-103** | **SLT1/303-G01** |
| **1550** | Sounds like Randomness **Amy Renelle** *University of Auckland* | Reproducible Research with Docker **Glenn Thomas** *Harmonic Analytics* | HLFS mode of collection: A journey due to COVID-19 **Wilma Molano** *Stats NZ* |
| **1610** | Two-phase subsampling design for DNA sequencing with application in the relatedness in endangered species **Pei Luo** *University of Auckland* | Improving the prediction of bus arrival using real-time network state **Tom Elliott** *Victoria University of Wellington* | Non-negative forecast reconciliation for forecasting hierarchical time series **Shanika Wickramasuriya** *University of Auckland* |
| **1630** | Optimal sampling allocation for outcome dependent designs in cluster-correlated data settings **Claudia Rivera-Rodriguez** *University of Auckland* | Practical Assessment of Spatial Capture-Recapture **David Chan** *University of Auckland* | Overcoming singularity: a Khmaladze transform goodness of fit test for the Laplace distribution **John Haywood** *Victoria University of Wellington* |
| **1650** | Estimating the time lag between predator abundance and prey abundance **Martin Upsdell** *AgResearch* | simGBS: Unlimited Genotyping-by-Sequencing Data for Free **Jie Kang** *University of Otago* | Integrating R Graphics and TikZ Graphics **Paul Murrell** *University of Auckland* |
|  |  | | |
| **1830** | **Conference Dinner Venue: Old Government House** | | |
| **1700** |  |  |  |

[**Wednesday 25/11**](https://nzsa2020.nz/sched.php#day2)

|  |  |  |  |
| --- | --- | --- | --- |
| **Time** | **Wednesday 25/11** | | |
| **855** | Housekeeping | | |
| **900** | **Statistics of Ambiguous Rotations Richard Arnold VUW MLT2/303-102** | | |
| **950** | **Morning Tea (30 minutes)** | | |
|  | **MLT2/303-102** | **MLT3/303-103** | **SLT1/303-G01** |
| **1030** | Missing in action - a statistical window on prisons **Len Cook** *IGPS VUW* | My Journey to create shiny app ‘DeltaGen’ **Dongwen Luo** *AgResearch* | War Stories **Peter Mullins** *University of Auckland* |
| **1050** | Influence functions, and why you should care **Thomas Lumley** *University of Auckland* | Accuracy of the saddlepoint approximation for MLEs **Jesse Goodman** *University of Auckland* | Dimension reduction for imbedding high dimensional measurements into Bayesian Networks **Beatrix Jones** *University of Auckland* |
| **1110** | A Bayesian approach to modelling of Phosphorus inputs to rivers from diffuse and point sources. **Alasdair Noble** *AgResearch* | Working with UNITAR to design an e-learning course for measuring progress on the UN's Sustainable Development Indicators **John Harraway and Sharleen Forbes** *University of Otago* | Using canonical correspondence analysis and redundancy analysis to fit nonlinear gradients to community data **Russell Millar** *University of Auckland* |
|  | **MLT2/303-102** | **MLT3/303-103** | **SLT1/303-G01** |
| **1130** | Keeping Things Running Smoothly: A Collection of Kernel-based Collaborations **Tilman Davies** *University of Otago* | Beyond the Integrated Data Infrastructure - building a strategic data resource for Aotearoa **Andrew Sporle** *University of Auckland* | A versatile discrete distribution **Rolf Turner** *University of Auckland* |
| **1150** | Decision Making for Partially Observable Markov Processes **Azam Asanjarani** *University of Auckland* |  | Adversarial Risk Analysis for modelling strategic adversary **Chaitanya Joshi** *University of Waikato* |
| **1210** | **Closing Ceremony** | | |
| **1230** | **Lunch (1 hour 10 minutes)** | | |
|  |  | | |
| **1340** | **Conference Finish** | | |