Shaping the Future of Data Science: Research Spotlight Series

23 August 2021	
11:00 to 11:10	Opening of the conference – Kerrie Mengersen
11:10 to 11:20	Moe Thandar Wynn: Process Mining for Business Decision Support
11:20 to 11:30	Regina Burachik: Nonsmooth Optimization and applications
11:30 to 11:40	Janice Scealy: The statistical analysis of manifold-valued data
11:40 to 11:50	Małgorzata O'Reilly: Stochastic modelling and applications
11:50 to 12:00	Discussion and Q&A
12:00 to 12:10	Kate Helmstedt: Maths for making better decisions to save species and ecosystems
12:10 to 12:20	Danielle Navarro: Bayesian Modelling and Analytics for Big Data
12:20 to 12:30	Kim-Anh Lê Cao: Projection to Latent Structures for biological data integration
12:30 to 12:40	Lexing Xie
12:40 to 12:50	Marijka Batterham
12:50 to 13:00	Discussion and Q&A
13:00 to 13:10	Yvonne Stokes: Data ⇔ Dynamics
13:10 to 13:20	Carla Chen: Data science for decision support
13:20 to 13:30	Yanan Fan: Bayesian optimisation for complex real world problem
13:30 to 13:40	Discussion and Q&A

24 August 2021	
11:00 to 11:10	Jessica Kasza: Longitudinal cluster randomised trials: speeding up the stepped wedge
11:10 to 11:20	Ann Nicholson: Knowledge Engineering Causal Bayesian Networks
11:20 to 11:30	Rachel Cardell-Oliver: Data Gathering with Wireless Sensor Networks
11:30 to 11:40	Katharine Turner: Topological Data Analysis
11:40 to 11:50	Sevvandi Kandanaarachchi: Anomalies and Events keep us on our toes!
11:50 to 12:00	Discussion and Q&A

Time	Session
12:00 to 12:10	Gael Martin: New Approaches to Probabilistic Prediction
12:10 to 12:20	Seok-Hee Hong: Faithful Visual Analytics of Big Complex Data
12:20 to 12:30	Leah South: Stein's Method in Data Science
12:30 to 12:40	Dianne Cook: Challenges for Visualisation in Data Science: High-dimensional spaces, and Statistical Inference
12:40 to 12:50	Jean Yang: Harnessing information from high-dimensional biomedical science data
12:50 to 13:00	Discussion and Q&A
13:00 to 13:10	Karin Verspoor: Data Science: the view from biomedicine
13:10 to 13:20	Maria Garcia de la Banda: Supporting Combinatorial Problem Modellers
13:20 to 13:30	Char-Lee Moyle: Disrupting Business Statistics
13:30 to 13:40	Levon Blue: Disrupting the alibi: towards a postcolonial financial literacy ideal
13:40 to 13:50	Discussion and Q&A

25 August 2021

Time	Session
11:00 to 11:10	Nalini Joshi: Learning Theory
11:10 to 11:20	Flora Salim: Learning transferable human behaviour representations from sensor data
11:20 to 11:30	Xiangmin Zhou: Real-time Online Recommendation in Big Contextual Social Data
11:30 to 11:40	Richi Nayak: Feature Representation with Machine Learning for Text and other High-dimensional Datasets
11:40 to 11:50	Asha Rao: Mining online networks using graphs
11:50 to 12:00	Discussion and Q&A
12:00 to 12:10	Anjali Gupta: Interpreting forensic evidence using high-dimensional data
12:10 to 12:20	Jessica Mar
12:20 to 12:30	Joanna Wang: Using Statistics to help creating a better justice system
12:30 to 12:40	Heejung Shim: Statistics for the complex genomic data analysis in functional genomics
12:40 to 12:50	Elise van den Hoven: People-Centred Design Research
12:50 to 13:00	Discussion and Q&A
13:00 to 13:10	Margot Brereton - Designing human-data interaction

Time	Session
13:10 to 13:20	Aurore Delaigle
13:20 to 13:30	Brenda Vo: Statistical and machine learning methods with applications in agriculture
13:30 to 13:40	Joanna Batstone: Data & AI for sustainable development and health
13:40 to 13:50	Discussion and Q&A
13:50 to 13:55	Conference Closing - Kerrie Mengersen