

Tuesday 10 February (morning session)

8:30 – 8:40	Announcements			
8:40 – 9:40	Plenary talk : Edgar Duéñez-Guzmán The emergence of bias: lessons from tabula rasa learning agents <i>Chair : Cecilia González-Tokman</i>			
	Room 1 and 2 <i>Chair :</i> <i>Jessica Crawshaw</i>	Room 3 <i>Chair:</i>	Room 4 <i>Chair:</i> <i>Noa Kraitzman</i>	Room 5 <i>Chair :</i> <i>Scott McCue</i>
9:40 – 10:00	Elizabeth Ivory* Evaluating <i>Plasmodium vivax</i> treatment policies: an economic perspective	Tim Bourke* Calculus Without Limits	Parul Tiwari Data Driven Assessment of Climate Change Impacts on Water Quality Index in Tukituki River	Luke Bennetts Cloaking flexural-gravity waves in an anisotropic plate floating on shallow water
10:00 – 10:20	Komal Komal* Modeling the effects of cross immunity and control measures on competitive dynamics of variants in the USA, UK, and Brazil	Pascal R. Buenzli Making mathematics engaging and affordable to today's students transitioning into engineering degrees with day jobs and math anxiety	Chantelle Blachut The influence of ignition pattern and fuel load on Vorticity-driven Lateral Spread	Ben Wilks Water wave scattering by a rectangular anisotropic elastic plate
10:20 – 10:40	Olle Ponten* Three-dimensional characteristics of the movements of dinoflagellates; a multi-disciplinary investigation	Michael Lydeamore Gamifying data visualisation: Teaching ggplot2 through competitive code golf	Liam Blake* A Gaussian mixture filter with splitting for data assimilation	Edward Hinton Optimal profiles in confined and non-Newtonian flows
10:40 – 11:00	Pengxing Cao Using mathematical models to study the drivers of severe outcomes during influenza virus infections	Adriana Zanca Gender representation at mathematics conferences in Australia: all a matter of perception?	Heather Jenkins A signal-processing method for analysing how orchard production systems affect ground-level microclimate	Larry Forbes The Fluid Mechanics of your Morning Coffee
11:00 – 11:20	Morning tea - Grand Ballroom			

Tuesday 10 February (morning session continued)

	Room 1 and 2 <i>Chair :</i> <i>Matthew Simpson</i>	Room 3 <i>Chair:</i> <i>Matthew Tam</i>	Room 4 <i>Chair:</i>	Room 5 <i>Chair :</i> <i>Michael Plank</i>
11:20 – 11:40	Tsubasa Sukekawa Imaging Data-based Model Description Combining Optimal Transport and Phase-field Model	Luz Pascal* Developing new technologies in changing environments	Llewyn Randall* The numerical challenges of modelling the erosion of complex landform	Thao P. Le Simulating emergency animal disease outbreaks and response: development and outcomes
11:40 – 12:00	Alex Tam Thin-film modelling and parameter optimisation for biofilms	Maria Kleshnina Cooperating on networks: inequality and social structure	Melanie Roberts The potential for revegetation to mitigate climate change effects on gully growth in Queensland.	Isobel Abell* Communicating real-time modelling during emergency animal disease outbreaks, a qualitative analysis
12:00 – 12:20	Douglas Brumley Unravelling three-dimensional active transport by ciliary arrays on coral surfaces	David Ceddia* Optimization of Athletic Performance with Injury Risk	Lucy Dowdell* The Abundance Constraints Approach: A New Method to Ensemble Ecosystem Modelling for Large Networks	Christopher Baker Enhancing rapid decision-support for emergency animal disease outbreaks
12:20 – 12:40	Thisaakhya Jayakody* A time-inhomogeneous Markovian model for demography of women	Liam Timms* A decentralized algorithm with application to min-max problems	Grace Robinson* What should grow where? optimising human land use	Hannah McGregor* Mathematical Modelling of Pertussis Dynamics and Impact In Aotearoa New Zealand
12:40 – 13:00	Taiga Kadowaki* A Markov Process-Based Mathematical Model of Vascular Stenosis Formation and Treatment	Kaniz Fatema* DC optimization method for solving reverse convex programming	Liam Gibson* Quantifying land use change in low country Waitaha-region braidplains	Pantea Pooladvand Why Cultural Change Repeatedly Triggers Disease Emergence
13:00 – 14:00	Lunch - Room 6 WIMSIG lunch - Grand Ballroom			
14:00 – 19:30	Free afternoon			
19:30 – 21:30	ANZIAM AGM - Room 1 and 2			
21:30 – 22:30	ANZIAM Executive meeting - Room 1 and 2			