

AMSIConnect 2026 Program

Venue: Queen's College, College Crescent, The University of Melbourne, Parkville

All times are in AEDT (ACT, NSW, TAS, VIC)

Program may be subject to change

Welcome – Wednesday 11 February

11:00 am	Group 1 – transfer from Melbourne airport to Queen's College for interstate students
2:00 pm	Group 2 – transfer from Melbourne airport to Queen's College for interstate students
4:00 pm	Group 3 – transfer from Melbourne airport to Queen's College for interstate students
6-7 pm	WELCOME DINNER at Queen's College

Conference Day 1 – Thursday 12 February

09:40 am	REGISTRATION	
09:55 am	Queen's College Housekeeping and Safety Announcements	
10:00 am	WELCOME – Angela Coughlin AMSI	
	<i>Eakins Foyer</i>	
10:10 am	Guest Speaker: Life as a Researcher Associate Professor Sue Finch, The University of Melbourne	
10:40 am	Guest Speaker: Life as a Phd Student	
11:10 am	Group photo	
11:20 am	MORNING TEA	
	<i>Eakins Foyer</i>	<i>Stafford Room</i>
Chair	<i>Dr Sergey Polyakovskiy, Deakin University</i>	
	Applied	Statistics/Data Science
12:00 pm	Just-in-Time Batch Scheduling Subject to Batch Size and Packing Constraints Hoa My Huy Lim, Deakin University	Investigating the Topic Capacity of Document Embeddings Tristan Trieu, Western Sydney University
12:20 pm	Post-quantum cryptography Ziyan Chen, The University of Sydney	Neural Posterior Learning for Bayesian Model Choice Haowei Zhao, The University of Sydney
12:40 pm	Mapping ‘profundity’ in large language models: A geometric analysis Finn Thomas, The University of Newcastle	Frequency-domain model selection for large-scale time series via Bayesian variable selection Jamie Hill, The University of Technology Sydney
1:00 pm	Recovering Parameters of Truncated Multivariate Gaussian Distributions via Numerical Optimisation Carmen Isabel Martienz Harris, Queensland University of Technology	Comparison of Regression-Adjusted ABC and Neural Methods for Simulation-Based Inference Stephen Dang, Queensland University of Technology
1:20 pm	LUNCH	

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Conference Day 1 Afternoon Sessions – Thursday 12 February

	<i>Eakins Foyer</i>	<i>Stafford Room</i>
<i>Chair</i>		
	Pure/Theoretical	Applied
2:20 pm	The Hopf fibration Anders Yu, Adelaide University	The Drug Diffusion Problem: Comparison of Analytic Methods Noah Cresp, The University of Newcastle
2:40 pm	The Hopf fibration Nyx Crosby, Adelaide University	Solution of Interface Problems for The Linearised Benjamin-Bona-Mahony Equation: The Line and Star- Shaped Network Samuel Walsh, The University of Newcastle
3:00 pm	Solving Graph Colouring Problems via Convex Optimization Edward Mirco, Curtin University	Optimal control of air-conditioning with thermal storage Rong Xu, Adelaide University
3:20 pm	AFTERNOON TEA	
3:40 pm	Walk to UniMelb campus – Room 149, Old Arts Building	
4:00 pm	Jane Street Estimathon	
5:00 pm	Guest Speaker: Careers Professor Tim Marchant, AMSI	
5:40 pm	Walk to Prince Alfred Carlton	
6:00 pm	DINNER at Prince Alfred Carlton	

Student biographies & summer research project summaries:

srs.amsi.org.au/research-projects

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Conference Day 2 – Friday 13 February

	Statistics/Data Science	Pure/Theoretical
	Eakins Foyer	Stafford Room
Chair		
09:20 am	Record Statistics of Non i.i.d Random Variables Angus Stewart, Macquarie University	How do phase transitions emerge in discrete vector-spin generalisations of the Curie–Weiss model? Bradley Landau, Monash University
09:40 am	Clustering Time Series Using Spectral Density-Based Distances Thi Hai Anh Luyen, Western Sydney University	Superspaces, Superalgebras and Supersymmetry! James Lonnern, The University of Melbourne
10:00 am	Statistical approaches for integration of single-cell and spatial transcriptomics data at isoform resolution Ashton Lu, The University of Melbourne	
10:20 am	MORNING TEA	
	Eakins Foyer	Stafford Room
Chair	Dr Kelvin Li, Deakin University	
	Pure/Theoretical	Applied
11:00 am	Optimisation in BKZ: An analysis of dynamic block size Trillion White, Deakin University	Graph Fourier Analysis for Community Detection in Covert Networks James Streitberg, RMIT University
11:20 am	Inequalities in Geometry and Analysis Vinnie Ng, Australian National University	Flexible Microswimmer Geometries in Flow Joshua Borsky, The University of Melbourne
11:40 am	Minimal Spectrahedral Representations for Facial Dimension Realisations Emmanuel Travassaros, UNSW	Dupire's Equation and SPDEs: Theory, Financial Applications, and Corollary Results Chloe Markovic, Australian National University
12:00 pm	Multiplicative dependence in linear recurrences David Nachuan Chen, UNSW	Mathematical Modelling of T Cells as a Treatment For Cancer Brynn Mackie, Queensland University of Technology
12:20 pm	LUNCH & best presentation voting	
	Eakins Foyer	
1:20 pm	Conference Wrap up & prize announcements	
2:30 pm	Airport bus transfer for interstate students	

Eakins Foyer Zoom link:

<https://unimelb.zoom.us/j/85355853336?pwd=ixsyFQ1sHXBRnVaMVZe75aoEeoJDiw.1>

Meeting ID: 853 5585 3336 Passcode: 151328

Stafford Zoom link:

<https://unimelb.zoom.us/j/83842086267?pwd=8eXrYOeaQdoCN2hceBgiMrJacpp1AM.1>

Meeting ID: 838 4208 6267 Passcode: 185313

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