

# The “Complexity, Criticality and Computation” Symposium C<sup>3</sup>-2023

Program (version 5): 15-21 January 2023 (Heron Island, QLD)

Date	Morning	Afternoon	
Jan 15 (Sun)	Arrival: catamaran (9:30am → 11:45am)	6:30	<i>Welcome dinner</i>
Jan 16 (Mon)	Theme: Critical phenomena, singularities & entropy		
8:00 – 8:45	<i>Breakfast</i>	3:00 – 4:00	<b>Geraint Lewis</b> (University of Sydney)
9:00 – 9:15	<i>Intro: Louise Wilkinson</i> (University of Western Sydney) & <b>Mikhail Prokopenko</b> (University of Sydney)	4:00 – 4:35	David Shorten (University of Adelaide)
9:15 – 10:15	<i>Opening: Paul Davies</i> (Arizona State University)	4:35 – 5:05	<i>Tea/coffee break</i>
10:15 – 10:45	<i>Tea/coffee break</i>	5:05 – 5:30	<b>Ruomin Zhu</b> (University of Sydney)
10:45 – 11:45	<b>Zdenka Kuncic</b> (University of Sydney) & <b>Francesco Caravelli</b> (Los Alamos National Lab)	5:30 – 5:55	<b>Cheng Kevin Qu</b> (University of Sydney)
11:45 – 12:20	Valentina Baccetti (RMIT)	5:55 – 6:20	<b>Brendan Harris</b> (University of Sydney)
12:45 – 1:30	<i>Lunch break</i>	6:30	<i>Dinner</i>
Jan 17 (Tue)	Theme: Brain and mind		
8:00 – 8:45	<i>Breakfast</i>	3:00 – 4:00	<b>Mac Shine</b> (University of Sydney)
9:00 – 10:00	<b>Katherine Peil-Kauffman</b> (EFS International)	4:00 – 4:35	Eli Muller (University of Sydney)
10:00 – 10:30	<i>Tea/coffee break</i>	4:35 – 5:05	<i>Tea/coffee break</i>
10:30 – 11:30	<b>Michael Small</b> (University of Western Australia)	5:05 – 5:40	Brandon Munn (University of Sydney)
11:30 – 12:30	<b>Eduardo Altmann</b> (University of Sydney)	5:40 – 6:05	<b>Annie Bryant</b> (University of Sydney)
12:45 – 1:30	<i>Lunch break</i>	6:05 – 6:30	<b>Natasha Taylor</b> (University of Sydney)
		6:30	<i>Dinner</i>
Jan 18 (Wed)	Theme: Survival of the fittest (From genes to swarms to firms)		
8:00 – 8:45	<i>Breakfast</i>	3:00 – 4:00	<b>Daniel Polani</b> (University of Hertfordshire)
9:00 – 10:00	<b>Stuart Kauffman</b> (Institute for Systems Biology)	4:00 – 4:35	Firouzeh Taghikhah (University of Sydney)
10:00 – 10:30	<i>Tea/coffee break</i>	4:35 – 5:05	<i>Tea/coffee break</i>
10:30 – 11:30	<b>Michael Lachmann</b> (Santa Fe Institute)	5:05 – 5:40	Fabian Held (University of Sydney)
11:30 – 12:05	Rebecca Rockett (University of Sydney)	5:40 – 6:05	<b>Cathy Liu</b> (University of Sydney)
12:05 – 12:40	Carl Suster (University of Sydney)	6:30	<i>Dinner</i>
12:45 – 1:30	<i>Lunch break</i>		
Jan 19 (Thu)	Theme: Pandemic/Crisis modelling		
8:00 – 8:45	<i>Breakfast</i>	3:00 – 4:00	<b>Tim Germann</b> (Los Alamos National Lab)
9:00 – 10:00	<b>Sara Del Valle</b> (Los Alamos National Lab)	4:00 – 4:35	Joel Miller (La Trobe University)
10:00 – 10:30	<i>Tea/coffee break</i>	4:35 – 5:05	<i>Tea/coffee break</i>
10:30 – 11:30	<b>Mikhail Prokopenko</b> (University of Sydney)	5:05 – 5:40	Karina Arias-Calluari (University of Sydney)
11:30 – 12:05	Sheryl Chang (University of Sydney)	5:40 – 6:05	<b>Quang Nguyen</b> (University of Sydney)
12:05 – 12:40	Cameron Zachreson (University of Melbourne)	6:05 – 6:30	<b>Ben Evans</b> (University of Sydney)
12:45 – 1:30	<i>Lunch break</i>	6:30	<i>Dinner</i>

Theme: Why do civilisations fall? / Complexity Economics			
Jan 20 (Fri)			
8:00 – 8:45	<i>Breakfast</i>	3:00 – 4:00	<b>Paul Ormerod</b> (University College, London)
9:00 – 10:00	<b>Roland Fletcher</b> (University of Sydney)	4:00 – 4:35	Rickard Nyman (University College, London)
10:00 – 10:30	<i>Tea/coffee break</i>	4:35 – 5:05	<i>Tea/coffee break</i>
10:30 – 11:30	<b>Ian Wilkinson</b> (University of Sydney)	5:05 – 5:40	Kirill Glavatskiy (University of Newcastle)
11:30 – 12:05	Arunima Malik (University of Sydney)	5:40 – 6:40	<i>Closing: Len Fisher</i> (University of Bristol)
12:05 – 12:40	Michael Harre (University of Sydney)	6:40	<i>Dinner</i>
12:45 – 1:30	<i>Lunch break</i>		
Jan 21 (Sat)			
8:00 – 8:45	<i>Breakfast</i>	12:45	Departure: catamaran (12:45pm → 3pm)

Heron Islander catamaran timetable: <https://www.uq.edu.au/heron-island-research-station/plan-your-visit/getting-here>

Colour coding for talks: **long** (45 min + 15 min Q&A), regular (25 min + 10 min Q&A), and **short** (20 min + 5 min Q&A).

Catering each day:

- Breakfast: 8am – 8:45am
- Morning tea/coffee: 10am – 10:30am
- Lunch: 12:45pm – 1:45pm
- Afternoon tea/coffee: 4:30pm – 5pm
- Dinner: 6:30pm – 7:30pm