

Foundations of Computation

The Australian National University
20-21 July 2023
RSSS Building, 146 Ellery Crescent

The workshop is free and open to all, but please contact colin.klein@anu.edu.au to register for room and catering purposes. All talks and food in Lectorial 2 on the ground floor of RSSS unless otherwise noted.

Thursday, July 20

9:05 Welcome and introduction

9:15 Colin Klein (ANU) “Computation: indeterminate, invertible, and isomorphic”

10:30 Tea

11:00 André Curtis-Trudel (Lingnan University) “Computation, triviality, and observer-relativity”

12:15 Lunch

2:00 Gualtiero Piccinini (University of Missouri-St. Louis) “The Physical Signature of Computation: A Robust Mapping Account.”

Co-badged with School of Philosophy Seminar Series; this will take place in Fellows Road Law Theatre 1

4:00 Drinks and dinner

Friday, July 21

9:15 Frances Egan (Rutgers) “Two Triviality Challenges to Computational Explanation”

10:30 Tea

11:00 David M Kaplan (Macquarie University) “The role of behaviour in understanding neural computation and representation”

12:15 Lunch

1:45 Mel Andrews (University of Cincinnati/Carnegie Mellon University) “The Devil in the Data: Towards a Philosophy of Science of Machine Learning”

3:00 Tea

3:30 Zoe Drayson (UC Davis) “Individuating computational vehicles”