ACCELERATE PROGRAMME
FOR SCIENTIFIC DISCOVERY

APSci

Network Event
Wednesday 29 March 2023

View all abstracts online:

17:30 – 18:30 Flash talk session

Chair: Neil Lawrence, DeepMind Professor of Machine Learning

17:30   **Introduction**

17:35   **Automatic Detection for Bioacoustics**

Arik Kershenbaum, Official Fellow and College Lecturer, Girton College, University of Cambridge, and Department of Zoology

17:45   **What can causality offer the environmental sciences?**

Sebastian Hickman, PhD student, AI for the study of Environmental Risks CDT and Yusuf Hamied Department of Chemistry

17:55   **A new eye on semantics. Coregistration of eye-movements and MEG/EEG to study semantics in context**

Federica Magnabosco, PhD student, MRC Cognition and Brain Sciences Unit

18:05   **ML-powered brain-computer interfaces in clinical applications**

João Araújo, PhD Student, Department of Psychology

18:15   **Understanding biology in the age of artificial intelligence**

Matthew Greenig, PhD Student, Yusuf Hamied Department of Chemistry

18:25   **Concluding remarks**

18:30-19:30 Poster and networking session

18:30 – 19:30 Poster and Networking Session

Posters listed in alphabetical order by poster presenter

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1   **Uncovering the THz molecular component of surface enhanced Raman spectra**

Alexandra Boehmke, PhD student, Department of Physics

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2   **Discovery of Potent Inhibitors of α-Synuclein Aggregation Using Structure-Based Iterative Learning**

Robert Horne, PhD student, Yusuf Hamied Department of Chemistry

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3   **Dimensionality Reduction: A Probabilistic Perspective**

Aditya Ravuri, PhD student, Accelerate Programme, Department of Computer Science and Technology

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4   **PKSmart: A Public Tool to Predict In Vivo Pharmacokinetics of Small Molecules**

Srijit Seal, PhD student, Yusuf Hamied Department of Chemistry

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5   **Learning the geometry of complex manifolds**

Justin Tan, PhD student, Accelerate Programme, Department of Computer Science and Technology

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