

AI for Science Summit

Tuesday 9 December 2025 and Wednesday 10 December 2025

Posters

1. Building Emotional Intelligence into Agentic-AI Systems

Sam Nallaperuma-Herzberg, Assistant Research Professor
Department of Computer Science and Technology, University of Cambridge

2. Human–Algorithm Interactions and Analytical Creativity: An Experimental Approach

Dequn Teng, PhD Student
Department of Engineering, University of Cambridge

3. The California AI Compass: Mapping Public Attitudes to People-Centred Regulation

Daniel Stone, Executive Director / Research Associate
School of Humanities and Social Sciences, University of Cambridge

4. AI-Driven MEMS Acoustic Sensors

Mohammad Zaid, PhD Student
Department of Engineering, University of Cambridge

5. Ai in Classification of Dementia

Mariana Silva, PhD Student
Department of Clinical Neuroscience, University of Cambridge

6. AI for Urban Development: PLATO (Platform for Land-use Analysis and Transparent Outcomes)

Jerry Chen, Isaac Newton Trust Fellow
Department of Land Economy, University of Cambridge

7. Demystifying Cost-Efficiency in LLM Serving over Heterogeneous GPUs

Eiko Yoneki, Assistant Research Professor
Department of Computer Science and Technology, University of Cambridge

8. Neural Reasoning for Sure Through Constructing Explainable Models

Tiansi Dong, Visiting Fellow
Department of Computer Science and Technology, University of Cambridge

9. AI-enabled Insights into Galaxy Evolution

Sinan Deger, Postdoctoral Researcher
Institute of Astronomy, University of Cambridge

10. Machine learning predictors for TADF photoluminescence wavelengths from text mined experimental data

Dingyun Huang, Research Associate
Department of Physics, University of Cambridge

11. Heatwave impacts on population health: an agent-based modelling simulation study

Yuanfei Liu, PhD Student
Department of Psychiatry, University of Cambridge

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12. Towards Real-Time Prediction with Autoencoders

Elise Özalp, PhD Student
Aeronautics, Imperial College London

13. Spatio-temporal categorical model emulation using Deep Gaussian Processes

Bertrand Nortier, Research Software Engineer (Research Associate)
School of Computing and Mathematical Sciences, University of Leicester

14. Koopman Autoencoders for PDE forecasting

Rares Grozavescu, PhD Student
Department of Engineering , University of Cambridge

15. Combining learning and physics-based modelling for tissue oximetry via spectral imaging

Kenton Kwok, PhD Student
Department of Chemical Engineering and Biotechnology, University of Cambridge

16. The APEX project - Artificial Intelligence for Policy Excellence in the Climate Crisis: initial results and outlook

Francisco Pereira, Professor
Department of Technology, Management and Economics, Technical University of Denmark

17. Generative modeling for Forecasting Dynamics

Kyriakos Flouris, Group Leader
School of Clinical Medicine, University of Cambridge

18. AI-ready Scientific Datasets Evaluation

Victoria Wang, Strategy Lead
Standards Association, IEEE

19. Green AI: Pathways to Sustainable Intelligence

Surbhi Goel, Research Software Engineer
University Information Services, University of Cambridge

20. Past, present, and future of reef distributions mapped through machine learning

Orlando Timmerman, PhD Candidate
Department of Earth Sciences, University of Cambridge

21. LUMEN—A deep learning pipeline for analysis of the 3D morphology of the cerebral lenticulostriate arteries from time-of-flight 7T MRI

Rui Li, PhD student
Department of Clinical Neurosciences, University of Cambridge

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22. Concept-Based Interpretable Underperforming Groups Discovery

Yael Konforti, PhD Student

Department of Computer Science and Technology, University of Cambridge

23. BG4Sea: Groundwork for Machine-Learned Multivariate Seasonal Biogeochemical Forecasting

Gabriela Martinez Balbontin, PhD student

LIP6, Sorbonne University

24. VeloTrace Reconciles Divergent Velocity and Trajectory in Single-cell Transcriptomics with Deep Neural ODE

Hui Cheng, PhD Student

Gurdon Institute, University of Cambridge

25. A Suitable and Interpretable Methodology for FTIR Spectral Classification

Thomas Hartigan, MPhil Student

Department of Physics, University of Cambridge

26. Graph Generative Models for Optical Network Design

Akanksha Ahuja, PhD Student

Department of Engineering, University of Cambridge

27. Neural Event-triggered Control for Optimal Scheduling

Jingdong Zhang, Chapman-Schmidt AI in Science Postdoctoral Fellow

I-X and Department of Mathematics, Imperial College London

28. Correcting Systemic Retrieval Biases in Ship Tracks

Iarla Boyce, PhD Student

Department of Engineering, University of Cambridge

29. PhD Student or Early Career Researcher? Opportunities to get involved with The Alan Turing Institute

Alison Wilson, Turing Liaison

Cambridge Centre for Data-Driven Discovery, University of Cambridge

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NeurIPS@Cam Posters

30. Hierarchical Concept-based Interpretable Models

Oscar Hill, PhD Student

Department of Computer Science and Technology, University of Cambridge

31. TabStruct: Measuring Structural Fidelity of Tabular Data

Xiangjian Jiang, PhD Student

Department of Computer Science and Technology, University of Cambridge

32. GPGreen: Learning Linear Operators with Gaussian Processes

Tom Cowperthwaite, PhD Student

Department of Applied Maths and Theoretical Physics, University of Cambridge

33. Towards Generalizable Retina Vessel Segmentation with Deformable Graph Priors

Shangqi Gao, Research Associate

Department of Oncology, University of Cambridge

34. When is a system discoverable from data?

Zakhar Shumaylov, PhD Student

Department of Applied Maths and Theoretical Physics, University of Cambridge

35. Neural Network–enabled Domain-consistent Robust Optimisation for Global CO₂

Reduction Potential of Gas Power Plants

Waqar Ashraf, Postdoctoral Researcher

Department of Architecture, University of Cambridge

36. How Intrinsic Motivation Shapes Learned Representations in Decision Transformers: A Cognitive Interpretability Analysis

Giovanna Maria Dimitri, Tenure Track Research Assistant

Social and Political Science, University of Milan

37. Stroke Patches: Customizable Artistic Image Styling Using Regression

John Bronskill, Research Associate

Department of Engineering, University of Cambridge

38. PILA: Physics Informed Low Rank Adaptation for Interpretable Earth Observation

Yihang She, PhD Student

Department of Computer Science and Technology, University of Cambridge