

UKNC2025 Main Programme

10 – 11th July

Huxley Building Concourse Level 3 (Main Lecture Theatre 340 & Posters Rooms 341, 342),
180 Queen's Gate, South Kensington Campus, Imperial College London, SW7 2AZ
www.neuralcomputation.uk

Thursday 10th July 2025

Time	Speaker	Titles
11:30 – 12:30	Registration & Lunch	
12:30 – 12:45	UKNC Organisers	Welcome
12:45 – 13:00	Dr Jacques Carolan The Advanced Research + Invention Agency (ARIA)	Precision Neurotechnologies for Human Therapeutics
13:00 – 13:30	Dr Jonathan Cornford University of Leeds	Normative brain-like learning algorithms
13:30 – 14:00	Dr Ian Hawes University of Edinburgh <i>Selected from Abstracts</i>	Context-specific speed integration enables memory generalisation
14:00 – 14:30	Prof Jennifer Bizley University College London	How does the brain construct auditory space?
14:30 – 15:00	Coffee	
15:00 – 15:30	Dr Flavia Mancini University of Cambridge	The neural and computational blueprint for surviving pain
15:30 – 16:00	Dr Andrea Colins Rodriguez Universidad Adolfo Ibañez <i>Selected from Abstracts</i>	Rhythmic and discrete arm movements arise from the same control strategy in Primary Motor Cortex but not in the Supplementary Motor Area
16:00 – 16:30	Dr Petr Znamenskiy Francis Crick Institute	A depth map of visual space in the primary visual cortex
16:30 – 18:30	Posters 1 & Networking Reception Sponsored by The Francis Crick Institute (Partnership Networking Fund)	

Friday 11th July

Time	Speaker	Titles
9:30 – 10:00	Prof Simon Schultz Imperial College London	Neural manifold inference by maximising information
10:00 – 10:30	Jack Cook University of Oxford <i>Selected from Abstracts</i>	Brain-Like Pathways Form in Models With Heterogeneous Experts

10:30 – 11:00	Prof Claudia Clopath Imperial College London	Estimating the uncertainty of feedforward and feedback inputs with prediction-error circuits
11:00 – 11:30	Coffee	
11:30 – 13:00	Breakout Session Sponsored by the Advanced Research + Invention Agency (ARIA)	
13:00	Lunch Overlaps with start of poster session	
13:30 – 15:00	Posters 2	
15:00 – 15:30	Prof Petra Vértes University of Cambridge	Reservoir Computing as a Window into Structure-Function Relationships in Neural Systems
15:30 – 16:00	Sebastian Castedo Laboratoire de Physique de l'ENS Selected from Abstracts	Energy-Efficient Neural Coding Under Food Restriction: Structure, Noise, and Resilience
16:00 – 16:30	Prof Paul Graham University of Sussex	Spatial computations in shallow, insect-inspired networks
16:30 – 17:00	Coffee	
17:00 – 17:45	Keynote: Prof Rafal Bogacz University of Oxford	Predictive coding: effective learning with local plasticity
17:45	UKNC Organisers	Closing