



## Cambridge Methods In Cognitive Neuroscience Day

24 November 2025

Lecture Theatre, MRC CBU, 15 Chaucer Road, Cambridge CB2 7EF

9.15-10.55	<b>MRI and fMRI</b> Chairs: Marta Correia & Dace Apšvalka	
	Graph neural networks for neuroimaging	Clara Pecci Terroba <i>Department of Psychology</i>
	Combining functional ultrasound and high-density diffuse optical tomography for whole-brain connectivity imaging in the neonate	Flora Faure <i>Department of Clinical Neurosciences</i>
	A Non-Technical Introduction to Large-Scale Models of Brain Dynamics	Kayson Kakhar <i>MRC Cognition and Brain Sciences Unit</i>
	PETALUTE: a novel MRI sequence and applications	Stephen Sawiak <i>Translational Neuroimaging Laboratory</i>
	Beyond DTI: examining white matter lesion microstructure with advanced diffusion MRI methods	Tatjana Schmidt <i>Department of Clinical Neurosciences</i>
11.15-12.55	<b>Behaviour, Statistics and Modelling</b> Chair: Paul Bays	
	Assessing neurocognitive hypotheses using likelihood-based models	Jordan Gunn <i>Department of Psychology</i>
	Multimodal stimulus presentation and movement	Celia Foster <i>MRC Cognition and Brain Sciences Unit</i>

	tracking during neuroimaging	<i>Sciences Unit</i>
	Model-based analysis of eye-tracking data: an example from learning under uncertainty	Eddie Xiao <i>Department of Psychology</i>
	Causal mediation vs traditional mediation	Yuanfei Liu <i>Department of Psychiatry</i>
	Using recurrent neural networks to study causal integration	Chris Jungerius <i>Department of Psychology</i>
12.55-14.00	<b>Lunch break</b>	
14.00-15.00	<b>Brain Stimulation</b> Chair: Elizabeth Michael	
	TMS-Neuroimaging for validating new TMS technologies	Elizabeth Michael <i>MRC Cognition and Brain Sciences Unit</i>
	Combining TMS with high-density EMG	Maggie Szymanska <i>MRC Cognition and Brain Sciences Unit</i>
	Precision mapping and zapping of the brain: Promises and open questions	Maximilian Lueckel <i>Leibniz Institute for Resilience Research, Mainz</i>
15.15-16.35	<b>EEG, MEG, Physiology</b> Chair: Olaf Hauk	
	Deep brain stimulation to treat addiction	Federica Magnabosco <i>Department of Psychiatry</i>
	Time-frequency Co-Information (TFCoI): Unraveling synergistic and redundant cross-frequency interactions using ECoG data	Andrés Canales-Johnson <i>Department of Psychology</i>
	<i>Extending SPM to Psychophysiology: Working with Pulse Oximetry Data using PsPM</i>	Mohit Verma <i>MRC Cognition and Brain Sciences Unit</i>
	<i>Dynamic functional connectivity during sleep in term and preterm infants</i>	Katharine Lee <i>University of British Columbia</i>

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