	Cambridge Methods Day **4 December 2023**	

9.30-10.50	**EEG/MEG** Chair: Olaf Hauk	
	Information theoretic methods for capturing distributed and synergistic representations across the cortical hierarchy	Juho Äijälä *Department of Psychology*
	The entropy of resting-state neural dynamics is a marker of general cognitive ability in childhood	Natalia Zdorovtsova *MRC Cognition and Brain Sciences Unit*
	DCM with MEG combined with MRI/MRS	Rebecca Williams *MRC Cognition and Brain Sciences Unit*
	A method to separate oscillatory bands based on lagged coherence	Golan Karvat *MRC Cognition and Brain Sciences Unit*
11.00-12.00	**Brain Stimulation** Chair: Alexandra Woolgar	
	Introduction to noninvasive deep brain stimulation with focussed ultrasound stimulation	Camilla Nord *MRC Cognition and Brain Sciences Unit*
	A novel concurrent TMS-fMRI setup for high resolution whole brain imaging: pilot data	Moataz Assem *MRC Cognition and Brain Sciences Unit*
	Testing e-field modelling as a method for determining individual TMS dose	Elizabeth Michael *MRC Cognition and Brain Sciences Unit*
	Lunch break (Light lunch buffet will be provided)	
13.00-14.20	**MRI and fMRI** Chairs: Marta Correia & Dace Apšvalka	
	Feasibility of parallel transmit 7T MRI for patients with drug-resistant focal epilepsy	Krzysztof Klodowski *Wolfson Brain Imaging Centre*
	Challenges of laminar fMRI	Dace Apšvalka *MRC Cognition and Brain Sciences Unit*
	Prospective head movement correction for fMRI	Marta Correia *MRC Cognition and Brain Sciences Unit*

	The effect of age on the BOLD HRF	Rik Henson *MRC Cognition and Brain Sciences Unit*
14.35-16.15	**Behavioural and Statistical Methods** Chair: Rik Henson	
	Representational Similarity Learning	Saskia Frisby *MRC Cognition and Brain Sciences Unit*
	Representational alignment as a tool to jointly understand artificial and biological cognition	Jascha Achterberg *MRC Cognition and Brain Sciences Unit*
	Causal inference and direct acyclic graphs	Luisa Fassi *MRC Cognition and Brain Sciences Unit*
	Modelling genetic effects on cortical dynamics with RNNs	Rebeca Ianov *MRC Cognition and Brain Sciences Unit*
	Web-based methods	Adam Attaheri *MRC Cognition and Brain Sciences Unit*