Cambridge Methods Day

4 December 2018

MRC Cognition and Brain Sciences Unit

9.30-9.35	**Welcome**	
9.35-10.55	**MRI I** Chair: Marta Correia	
	Pei Huang *MRC Cognition and Brain Sciences Unit*	Improved motion correction of 7T fMRI time series with boundary-based registration (BBR)
	Catarina Rua *Wolfson Brain Imaging Centre*	In-vivo imaging of the Locus Coeruleus with 7T MRI in healthy older adults
	Ayan Sengupta *Wolfson Brain Imaging Centre*	The effect of acquisition resolution on orientation decoding from V1 BOLD fMRI
	Elisa Zamboni *Department of Psychology*	Accounting for vascular bias in cortical depth imaging
	Coffee break	
11.20-13.00	**MRI II** Chair: Johan Carlin	
	Stefan Winzeck *Department of Medicine*	Harmonisation of MRI data for multi-centre studies
	Sebastian Schneegans *Department of Psychology*	Explaining fMRI data with dynamic neural field models
	Olaf Hauk *MRC Cognition and Brain Sciences Unit*	Analysing linear multivariate pattern transformations in fMRI data
	Wiktor Olszowy *Wolfson Brain Imaging Centre*	fMRI: the impact of age on the hemodynamic response function
	Ajay Hali *MRC Cognition and Brain Sciences Unit*	The benefits of using multi-echo fMRI
	Lunch break (light lunch will be provided)	

14.00-15.20	**Statistical Methodology, data collection, structural imaging and data organization** Chair: Rogier Kievit	
	Kirstie Whitaker *Department of Psychiatry*	The BIDS Starter Kit: Applying, understanding, and contributing to the Brain Imaging Data Structure
	Edwin Dalmaijer *MRC Cognition and Brain Sciences Unit*	Creating experiments in Python
	Sophia Borgeest *MRC Cognition and Brain Sciences Unit*	Improving structural brain imaging with Mindboggle
	Frank Hezemans *MRC Cognition and Brain Sciences Unit*	Going beyond ANOVA: Bayesian linear mixed models in R
	Tea break	
15.35-16.55	**EEG, MEG, and ECoG** Chair: Olaf Hauk	
	Yaara Erez *MRC Cognition and Brain Sciences Unit*	Cognitive mapping using ECoG during awake surgeries for patients with brain tumours
	Grace Rice *MRC Cognition and Brain Sciences Unit*	Fast Periodic Visual Stimulation (FPVS) for EEG/MEG and fMRI
	Alexandra Woolgar *MRC Cognition and Brain Sciences Unit*	Measuring the exchange of information between brain regions with EEG/MEG
	Francois Guerit *MRC Cognition and Brain Sciences Unit*	Electrical stimulation and EEG recordings: advantages of using a very high (262-kHz) sampling rate

For questions and comments, please contact olaf.hauk@mrc-cbu.cam.ac.uk.