

Cambridge Methods Day**6 December 2016*****MRC Cognition and Brain Sciences Unit***

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| 9.10-9.15 | Welcome | |
| 9.15-10.55 | Statistical Methods for Cognitive Science | |
| | Rogier Kievit | |
| | <i>A Bayesian approach to missing data</i> | Simon White MRC Biostatistics Unit |
| | <i>Neural networks as data analysis tools</i> | Katherine Storrs MRC Cognition and Brain Sciences Unit |
| | <i>Classification and variable selection</i> | Paul Kirk MRC Biostatistics Unit |
| | <i>Probabilistic connectivity</i> | Ameera Patel Dept. of Psychiatry, University of Cambridge |
| | <i>Discovering Psychological Dynamics: network models in cross-sectional and time-series data</i> | Sacha Epskamp Faculty of Social and Behavioural Sciences, University of Amsterdam |
| Coffee break | | |
| 11.10-12.30 | MRI | |
| | Marta Correia | |
| | Effect of Prospective Motion Correction (PMC) on fMRI | Huang Pei MRC Cognition and Brain Sciences Unit |
| | <i>Strategies for high-resolution functional MRI at</i> | Catarina Rua |

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| | <i>7 Tesla'</i> | Wolfson Brain Imaging Centre, University of Cambridge |
| | <i>Promises and perils of layer-dependent fMRI</i> | Nuno Goncalves Department of Psychology, University of Cambridge |
| | <i>Measuring GABA with MR Spectroscopy</i> | Polytimi Frangou Dept. of Psychology, University of Cambridge |
| Lunch break (lunch not provided) | | |
| 13.15-14.35 | Brain Connectivity Rik Henson | |
| | <i>Dynamic causal modelling of the resting brain</i> | Kamen Tsvetanov Dept. of Clinical Neurosciences, University of Cambridge |
| | <i>An adaptive Parcellation of the Cortex for Connectivity Analysis of Source Estimated EEG/MEG Data</i> | Rezvan Farahibozorg MRC Cognition and Brain Sciences Unit |
| | <i>Problems of heterogeneous groups for measuring Dynamic Functional Connectivity with fMRI</i> | Brieuc Lehmann MRC Biostatistics Unit |
| | <i>Distance Correlation for Multivariate Connectivity</i> | Linda Geerligs & Rik Henson MRC Cognition and Brain Sciences Unit |
| Tea break | | |
| 14.50-16.10 | EEG/MEG and Brain Stimulation Olaf Hauk | |
| | <i>A novel inversion method for magnetoencephalography</i> | Thanasis Fokas Dept. of Applied Mathematics and Theoretical Physics, University of Cambridge |
| | <i>Cortical wave packet analysis: unravelling the spatiotemporal dynamics of the band-limited</i> | Darren Price |

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| | <i>envelope in MEG</i> | MRC Cognition and Brain Sciences Unit |
| | <i>How does EEG connectivity react to TMS?</i> | Valdas Noreika Dept. of Psychology, University of Cambridge |
| | <i>Brain stimulation for the modulation of speech perception</i> | Benedikt Zoefel MRC Cognition and Brain Sciences Unit |
| Tea break | | |
| 16.25-17.25 | Multivariate Pattern Analysis Niko Kriegeskorte | |
| | <i>Cross-validated distance estimators for studies of representational geometry</i> | Niko Kriegeskorte MRC Cognition and Brain Sciences Unit |
| | <i>Weighted representational component modelling</i> | Marieke Mur MRC Cognition and Brain Sciences Unit |
| | <i>Dynamic representational similarity analysis</i> | Tim Kietzmann MRC Cognition and Brain Sciences Unit |
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| 17.30-... | Wrap up, Q&A | Everybody |

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