

Inverse mapping the neuronal correlates of face categorisations - dynamically tracking the processing of local and global visual information in the brain



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Ben Pilot Lecture Theatre,
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London.

All Welcome

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One of the fundamental goals in cognitive neuroscience is to relate modulations in brain activity to perceptual and cognitive functions.

Of critical importance is identifying the specific information being processed and how this information is distributed and transferred throughout the different brain regions involved.

In this talk, I will present a reverse correlation methodology that makes it possible to directly study information processing in the brain, and report the application of these techniques to the study of face perception and the processing of local and global visual information in the brain.

Dr. Marie Smith completed a PhD in physics - on the modelling of electromagnetic radiation emitted by living tissues (e.g. the brain) - at the University of Glasgow, Scotland in 2003. Dr. Smith subsequently obtained a post-doctoral position with Professor Philippe Schyns in the department of Psychology, University of Glasgow, to examine novel ways of interpreting brain-imaging data. From Glasgow Marie moved to Cambridge to work in the MRC Cognition and Brain Sciences Unit, before joining Birkbeck as Lecturer in the Department of Psychological Sciences in 2010.