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### **Inverse mapping the neuronal correlates of face categorizations**

Face perception is a complex process involving a network of brain structures, dynamically processing information to enable judgments about a face to be made. In this talk I will introduce an analysis methodology that makes it possible to directly study this information processing in the brain from spatially and temporally resolved EEG and MEG signals and apply it to the study of a number of face categorization tasks (gender, expression). Crucially, this approach specifically establishes which information in the visual stimulus the brain signal is responding to and how this varies with time, cortical location and task demands to establish a more precise view of information processing mechanisms in the brain.