Category
Neuroimaging Methods

Project title
Investigating brain dynamics of natural reading using co-registered eye-tracking and EEG/MEG

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Project details
Reading is a complex behaviour that requires the control of eye movements to optimally sample information from sequences of words. Previous neuroscientific studies have largely ignored the behavioural aspects of reading, and most previous evidence stems from simplistic word-by-word or single-word paradigms. In this study, you would investigate the dynamic interaction of psycholinguistic single-word variables (e.g. word frequency, concreteness) with contextual factors (e.g. predictability, plausibility) using co-registered eye-tracking and EEG/MEG. This would reveal the dynamic connectivity of brain areas that lead from visual and semantic processing and context integration to motor control, and may allow the classification of reading styles in individual readers.