Towards a component-free, correlative approach to event-related potentials acquired during overt speech tasks: A more natural context to test language production

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Abstract

In several recent event-related brain potential studies of language production, participants were asked to produce overt speech while their EEG was being recorded. Whilst motor artefacts engendered by the contraction of the jaw and that of facial muscles during speech are clearly incompatible with EEG recording, the signal before speech onset seems relatively unaffected (indeed it is unlikely that different experimental conditions would lead to systematic differential effects on EEG signals prior to speech initiation). I will present data from two studies which have used such a paradigm and show how relating ERP signals with voice reaction times can lead the way to component free mental chronometry.

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