Local and Global Context Models in Non-Native English Speakers

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Background

- Listeners continuously anticipate upcoming words and phonemes using prior context [1]
- Native English speakers form predictions using two separate context models simultaneously [2]

Background Results Hypotheses

Methods

- 13 subjects listen to 45 minutes of the audiobook ‘The Botany of Desire’ while recording MEG data
  - 4 Native Mandarin Speakers
  - 9 Native Sinhalese Speakers
- Sublexical predictors indicate usage of a Local Context Model, where word and sentence predictors indicate a Global Context Model

Results

- We use TRF Analysis to investigate representation of each predictor within MEG Data [3]
- Analysis restricted to superiortemporal and transversetemporal regions

References

This work was supported by NIDCD (NIH R01-DC019394), NSF (SMA 1734892), and a Seed Grant from the UMD Brain and Behavior Institute.