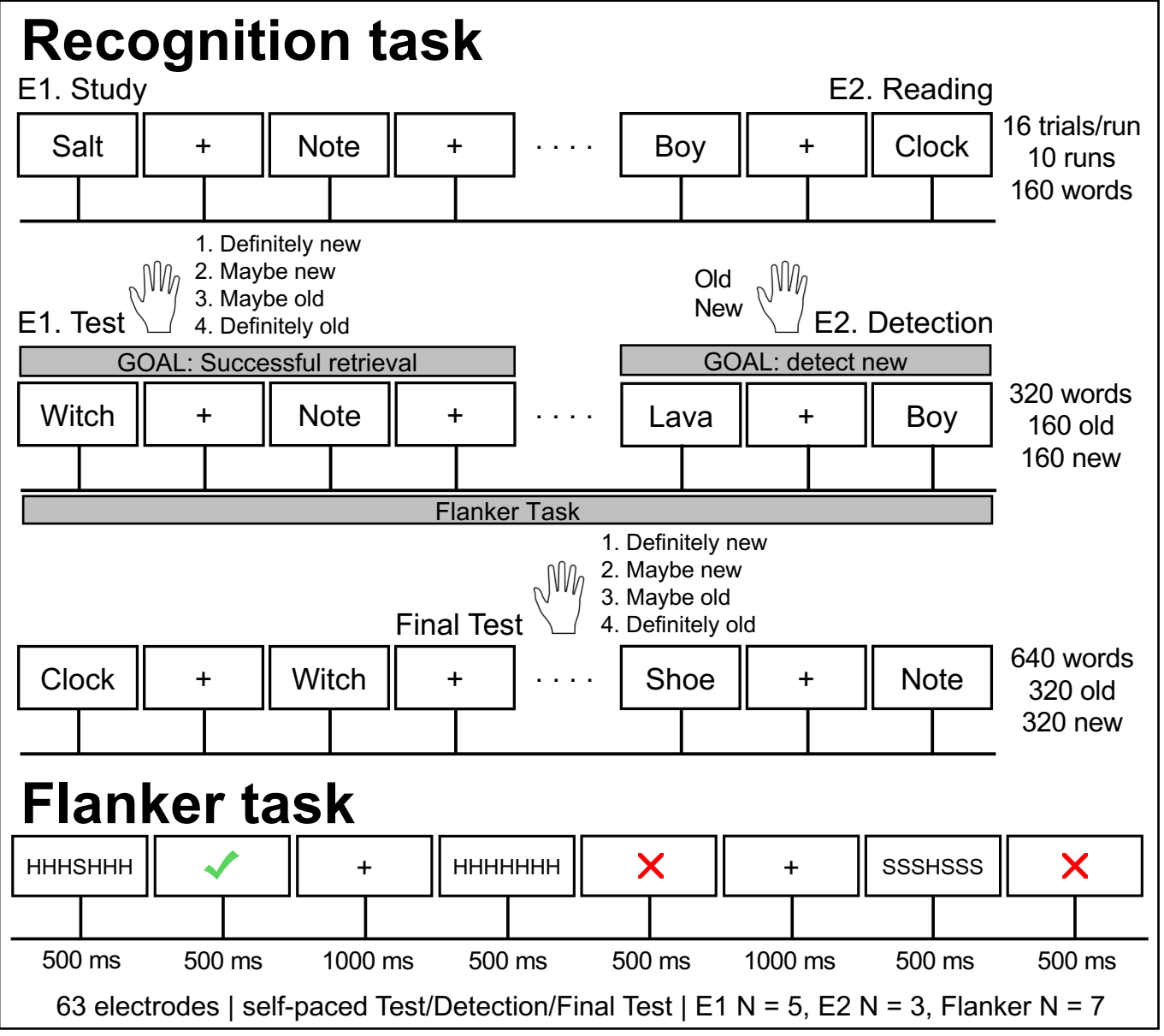


Introduction

- Is successful retrieval intrinsically rewarding?
- Greater test-phase theta power (4-8Hz) for Hits vs Correct Rejections (CRs) Nyhus & Curran, 2010
- Preliminary data shows a post-response theta flip
- Greater theta power following negative relative to positive outcomes across cognitive control tasks Cavanagh & Frank, 2014
- Reward-related regions are more active during Hits compared to CRs Spaniol et al. 2009; Clos et al. 2015
- When CRs are rewarded, greater reward system activity for CRs than Hits Han et al. 2010

Question

- Do test-phase reward signals reflect successful retrieval or goal attainment?



References

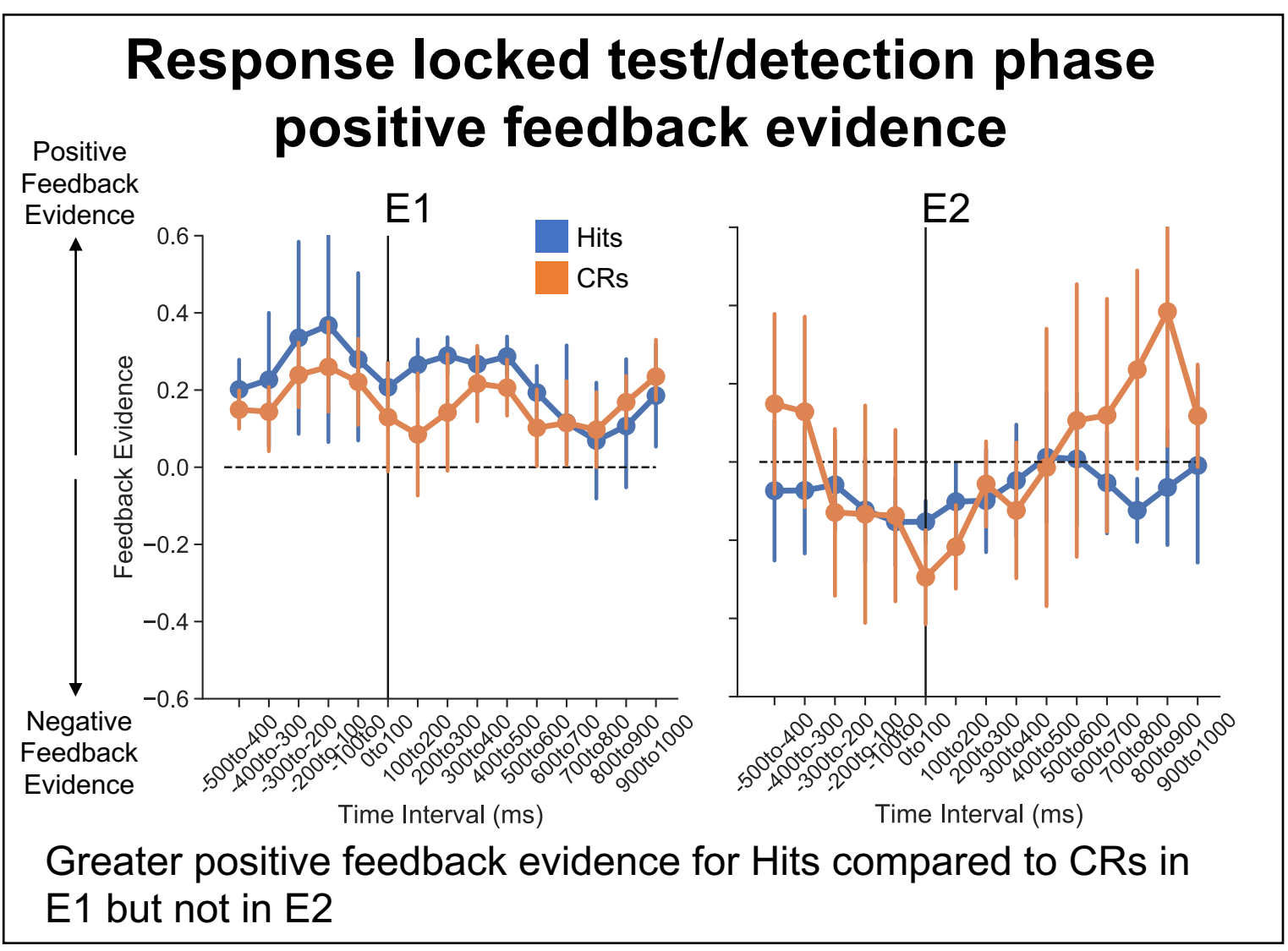
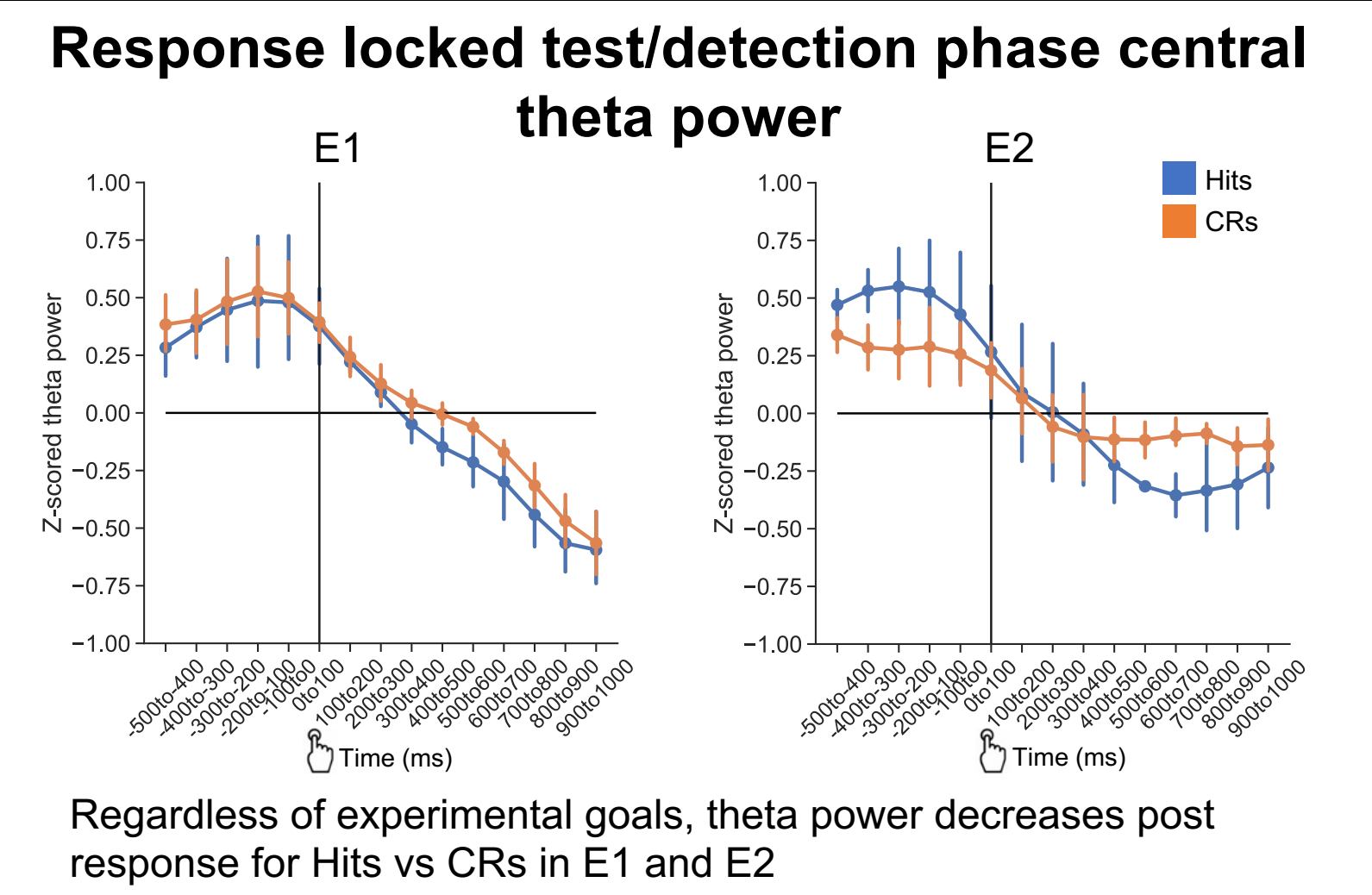
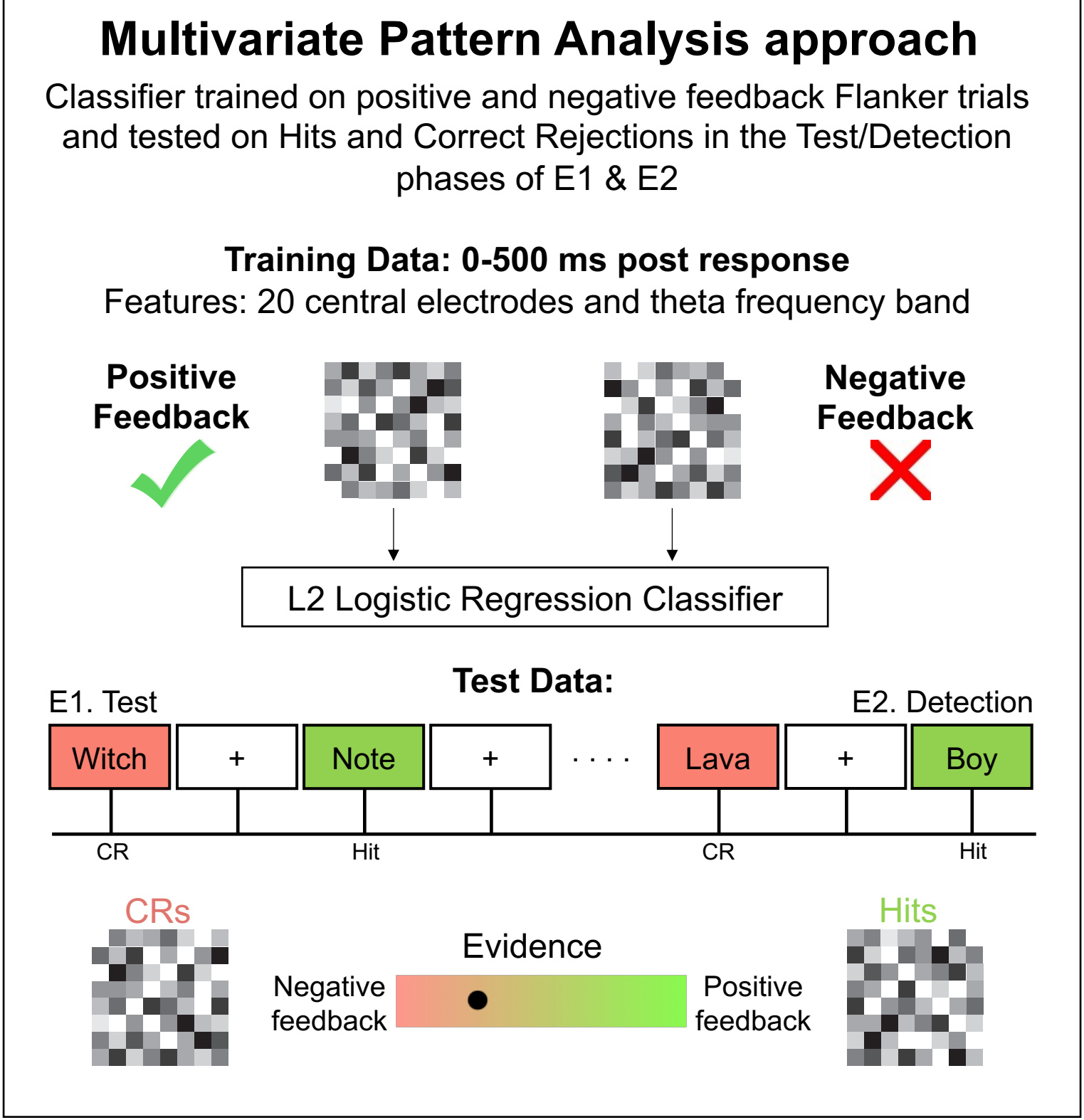
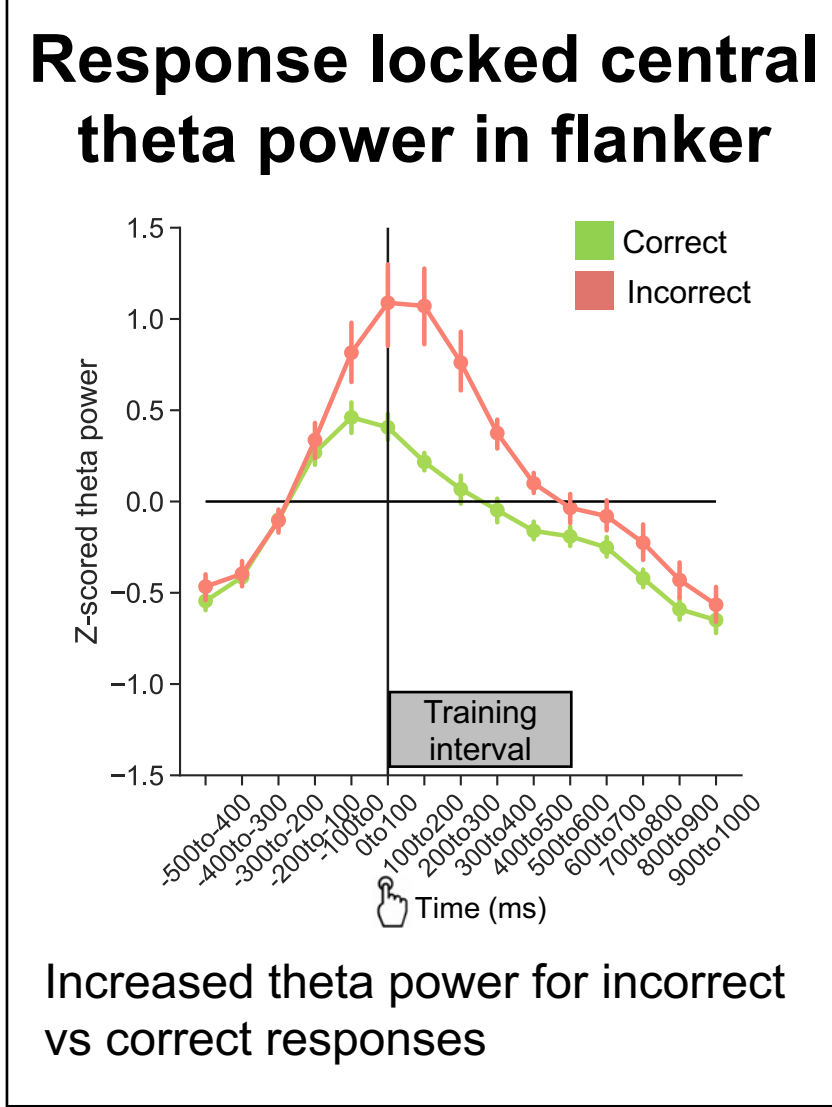
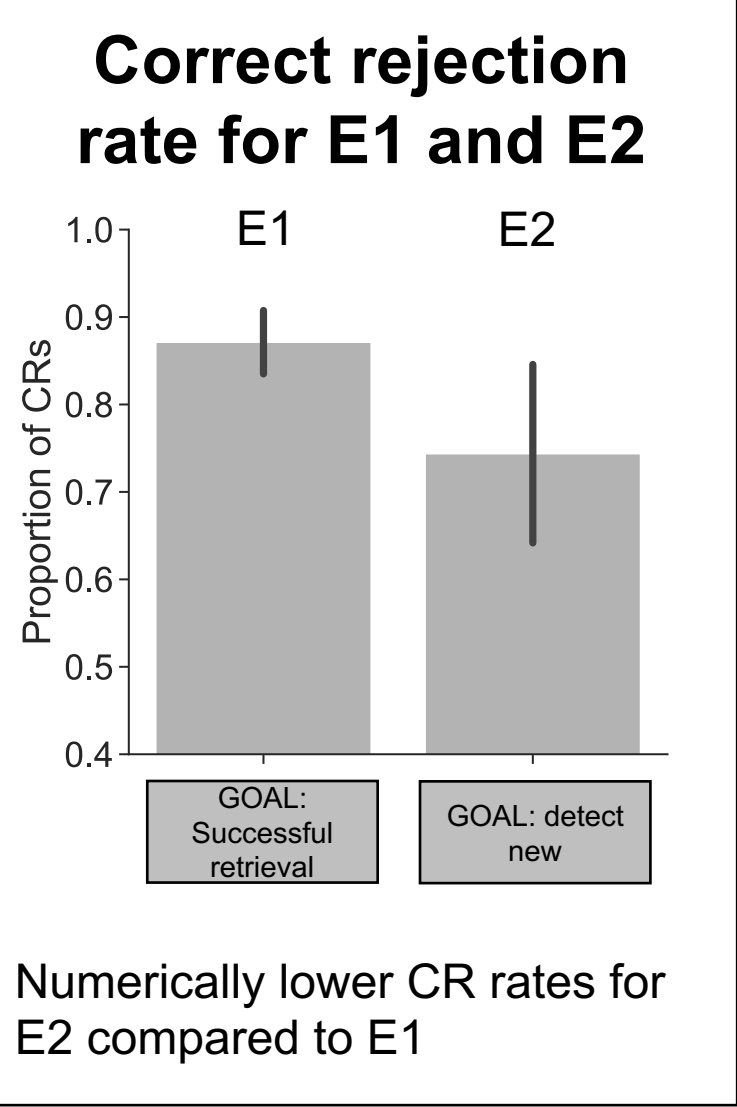
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Summary

- Lower CR rates for E2 compared to E1, suggesting the modified instructions shift subjects' goals
- Decreased theta power following Hits vs CRs in both E1 and E2
- Greater positive feedback for Hits compared to CRs in E1

Future directions

- Parameter selection for cross study classification
- Connect feedback evidence to memory performance on the final test