LARGE SCALE REPLICATION OF MEDIUMSHIP ACCURACY AND NEURAL CORRELATES

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Background: Prior reports have shown behavioral performance above chance in mediumship classification tasks along with early neural signatures, but these were limited by small sample sizes and lack of systematic replication.

Aims: To replicate and extend earlier behavioral and electrophysiological findings in a substantially larger cohort using a remote EEG platform.

Methods: Participants completed an image classification task while wearing a compact EEG system synchronously logging brain responses to stimuli. Trials presented facial photographs with forced-choice selections of causes of death. Stimuli were balanced and validated to eliminate physical cues exploitable by simple image features. EEG data underwent standardized preprocessing and artifact rejection before event related potential extraction.

Preliminary Results: Data collection is ongoing with more than forty participants acquired to date. EEG signal quality was verified, and robust event related potentials were identified time locked to stimulus onset. Preliminary analyses indicate ERP components that differ based on response accuracy, consistent with the temporal dynamics reported in earlier studies.

Keywords: Mediumship research, EEG, Event related potentials, Replication, Wearable neuroscience

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