

Milestone 2: Team Brownie

Central research question: How average task value affects reward-related anterior cingulate cortex (ACC) activity.

Authors Processing Pipeline	Our Processing Pipeline
included participants to analysis only if got 60% correct of the learnable trials	first exclude first 4 trials for every slot machine from calculation, increase 65% or 70% of the learnable trials
one subject was completely removed due to excessive EEG artifacts	sounds reasonable, do the same
bandpass filtered (0.1–30 Hz, UVic: 60 Hz notch, Oxford: 50 Hz notch)	sounds reasonable, do the same
re-referenced to the average of the mastoid signals	maybe choose different reference point, not sure yet, dependent on electrodes positions
Ocular artifacts were identified and removed using independent component analysis (ICA)	this + clean other types artifacts manually too
exclude epochs where voltage change per sample point is $>40\mu\text{V}$ or if overall change $>150\mu\text{V}$	sounds reasonable do the same, maybe different threshold?
excluded the first ten trials of each task, as participants became familiarized with the new cues	exclude first 4 trials for every slot machine for each participant, ensures subjects learned pattern for every slot machine (esp. important for medium value task)