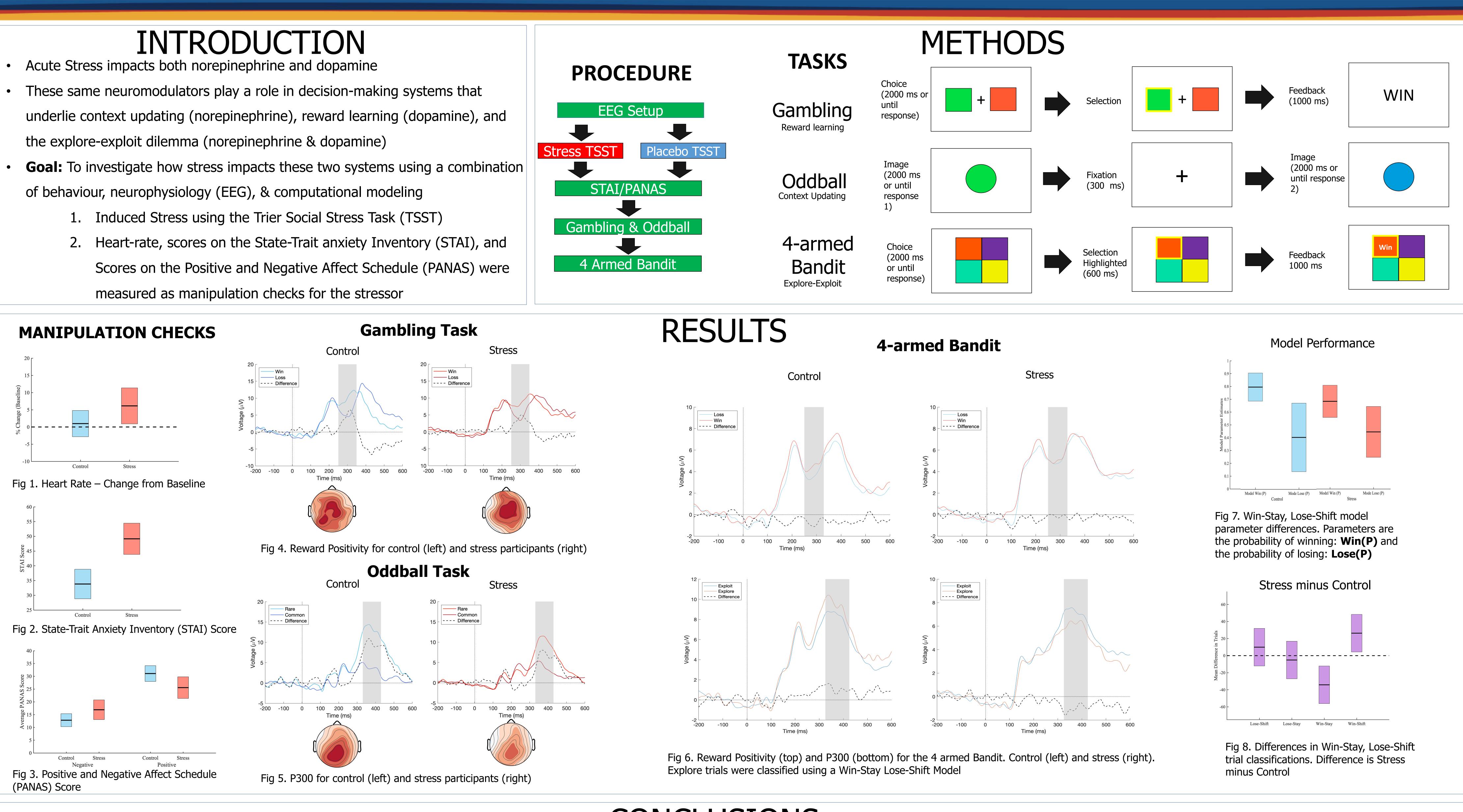
# Using EEG to investigate the neuro-modulatory systems underlying stress and decision making T.D. Ferguson and O.E. Krigolson Centre for Biomedical Research, University of Victoria



- Stress caused higher heart-rate, greater anxiety, less positive affect, and more negative affect.

### www.krigolsonlab.com

4. EEG & Modeling can provide insight into the time-course of the effects of acute stress on dopamine and norepinephrine Stress reduced the P300 in the Oddball task but did not seem to impact the Reward Positivity in the Gambling Task Stress reduced the Reward Positivity in the 4-armed bandit while causing the P300 to flip on explore-exploit trials and tress reduced the win percent of the model and less optimal behaviour (more win-shift and less win-stay)



# CONCLUSIONS









# www.thomasdferguson.com