WILLIAM THYER

email: thyer@uchicago.edu | website: williamthyer.github.io | github: @WilliamThyer | twitter: @WThyer

EDUCATION

2023　　**PhD Psychology, Integrative Neuroscience**
　　　　University of Chicago, Institute for Mind and Biology
2017　　**BS Psychology, Minor in Statistics**, *cum laude*
　　　　Florida State University

EXPERIENCE

Present　　***Graduate Researcher***, Awh & Vogel Lab, University of Chicago
- Created visual working memory tasks with Psychopy
- Collected electroencephalogram (EEG) and eye tracking data
- Preprocessed and artifact-rejected data using a custom pipeline
- Statistical analysis and predictive modelling with logistic regression

RELEVANT ACADEMIC PROJECTS

Decoding Working Memory Load from EEG
- Collected and processed over 100 sessions of EEG, eye tracking, and behavior
- Classified working memory load from EEG at the single-trial level
- Used frequency-decomposition, temporal generalization, and spotlight analysis
- Tools used: Python, Scikit-Learn, MNE, EEGLAB, Git

EEG and Eye Tracking Preprocessing and Artifact Rejection Pipeline
- Integrated eye tracking, EOG, and EEG artifact rejection
- Improved useability by developing generated reports after processing
- Tools used: EEGLAB, EYE-EEG, ERPLAB, Matlab, Git

Technical Skills Student Group, Machine Learning Leader
- Led student group that focused on machine learning and programming
- Held work sessions to improve students' machine learning skills
- Tools used: Python, Scikit-Learn

Project Manager for* Visual Memory Tracker *App on iOS and Android
- Coordinated a team of researchers, testers, and developers
- Communicated complex research goals to outside developers
- Organized data collection and app testing

TEACHING

2020　　***Psychological Research Methods,*** Teaching Assistant
2020　　***Attention and Memory in the Mind and Brain***, Teaching Assistant

For a full list of my publications, please see williamthyer.github.io/publications