3. Incorporating Explicit and Implicit Motor Imagery Training for Application to AAC-BCI Control

Student Investigator: Ellarie Woolpert
Mentors: Jonathan Brumberg and Kevin Pitt

**Purpose:** This study is an examination of the effects of both implicit and explicit training for application for imagery based BCI. The goal of the study is to determine whether “offline” training methods can impact EEG signals incorporated in motor imagery BCI control, and if these training methods can be utilized by individuals who cannot communicate via normal pathways, for example, those who use AAC devices. Two participants received both explicit and implicit motor imagery training, and their performance in an EEG was evaluated to determine the effects of these training activities. This study is on-going, and results will show whether the effects of these strategies influenced EEG signals related to motor imagery preparation and performance.