



## Would you or your child/legal ward like to learn about the brain and how it could control a computer?

Brain-computer interfaces (BCIs) for communication record brain activity and translate that activity into computer control. However, how individuals' brains process different displays (e.g., scenes, moving items, sound effects) and the impacts on brain-controlled computers remains unexplored. Therefore, the aims of this study are to evaluate how different computer displays impact brain waves. Brain waves involved in control of the BCIs will be recorded by electroencephalography (EEG), which records brain signals via electrodes placed in a cap (similar to a swimming cap).

**Requirements:** Participants should be 8-16 years, who are typically developing, or with a diagnosis of cortical visual impairment/cerebral visual impairment, and/or difficulties with physical movement. Participants should also be without electrical implants, OR a history of seizures and with English as their first language.

**Compensation:** *\$50 for completion of the study session*, paid in the form of an Amazon e-gift card.

**Duration:** During the session participants will complete a short cognitive-language assessment. Following the assessment EEG will be used to record brain activity while individuals watch different items (e.g., a picture of a ball) quickly flash on the computer screen. During this task, participants will be asked to sit quietly and pay attention to the computer screen. The session will last about 90 minutes.

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