Participate in Research

In-ear EEG Device for Auditory Brain-Computer Interface Communication

Principal Investigator: Dr. Tom Chau

Centre for Leadership:

Innovation



TO ASK QUESTIONS OR TO SIGN UP, CONTACT:

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RESEARCH INSTITUTE

Do you want to help us develop a communication device for youth with severe motor and visual impairments? Consider participating in our research study.

What is this study about:

We are developing a portable technology that records brain activity using electroencephalography (EEG). In the future we hope that this technology can enable youth with severe motor and visual impairments to participate in conversation.

Who can participate?

We are looking for participants who:

- Are between 13 and 18 years old
- Have normal or corrected-to-normal vision and hearing
- Are able to read, understand and speak English
- Have no known history of neurological, psychological, drug or alcohol-related conditions, seizures, or head injuries

What's involved?

- You will attend 1 session, that is approximately 90 minutes long, at Holland Bloorview Kids Rehabilitation Hospital.
- You will be asked to perform motions with your head, listen and count cues, and complete a questionnaire.
- You will wear a cap with sensors that will measure your brain activity. We will put gel on your head under each sensor.
- You will wear sensors, that are worn like headphones in each ear, that will measure your brain activity.

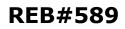
Potential Benefits?

• Your participation will help us develop a communication device for people with severe motor and visual impairments.

Potential Risks?

• The cap may leave pressure marks on your scalp which will be gone within an hour. You will need to wash your hair to remove the gel.

Participants will receive a small token of appreciation to thank them for their time.



Canada's Only Hospital-Based Childhood Disability Research Institute Holland Bloorview

Kids Rehabilitation Hospital