

Participate in Research

Training a thought-decoding brain-computer interface through passive listening



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Principal Investigator:
Tom Chau



CONTACT INFORMATION:

TO ASK QUESTIONS OR TO SIGN UP, CONTACT

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We invite you to take part in an research study to advance the development of a communication device

What is this study about:

Electroencephalography (EEG) measures electrical activity from the brain. Imagining speaking elicits measurable brain activity and thus may be used as a method of communication that is intuitive and practical.

Who can participate?

We are looking to recruit adults with the following profile:

- Male or female, 20-40 years of age
- Right-handed
- Have normal or corrected-to-normal vision
- Are a native English speaker
- Have no health issues that include: hearing, visual, degenerative, cardiovascular, respiratory, psychiatric, metabolic, neurological (e.g. seizures) or drug and alcohol-related conditions

What's involved?

- You will be asked to **attend 1 to 4 sessions** (both weekdays and weekends are possible)
- **Each session will be approximately 1 hour long**
- A wet EEG headset will be placed on your head with sensors that touch your scalp.
- You will perform blocks of speech imagery and speech perception
- All sessions will be at Holland Bloorview
- Participants and investigator will be required to wear masks and gloves, and maintain physical distancing when applicable

What are the benefits of participating?

Participation in this study may help develop a communication device for individuals with severe motor impairment.

What are the compensations?

You will receive compensation in gift cards after all sessions as a token of appreciation for your participation.