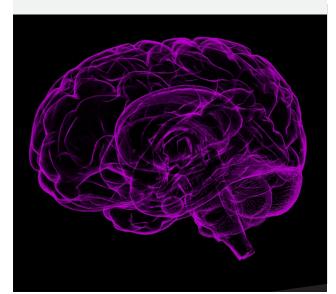
# HOW DO WE STUDY THE BRAIN?

- We play interactive computer games
- Pictures are taken using fMRI, which is safe and noninvasive

#### WHAT IS fMRI?

- We use functional magnetic imaging (fMRI) to measure patterns of brain activity.
- fMRI is a safe and widely used tool, and it is often utilized in clinical practice.





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Institutional Review Board

Brain Development Lab Vanderbilt University

Help us discover how children who are deaf and hard of hearing learn to read!







#### DEAF AND HARD OF HEARING READING PROJECT

### WHAT WE DO

Study how children's brains develop and how they change when learning to understand written language!

# WHY PARTICIPATE

- Be a part of research helping unravel the mystery behind how children learn to read
- Receive your child's test scores
- Take home a picture of your child's brain
- Participants who enroll will be paid

# WHO CAN PARTICIPATE?

- 10-13-year-olds who are deaf and/or hard of hearing
- Use any language (English, American Sign Language, or both to communicate)
- Use any hearing assistive device (no cochlear implants) or no device at all

# WHAT TO EXPECT

Children will be asked to participate in two sessions:

Session 1

- · Standardized testing
- Practice fMRI (functional Magnetic Resonance Imaging) session to learn games and become comfortable in the scanner

#### Session 2

- fMRI scan of brain structure and function
- Hearing/speech test

