Faculty member or graduate student
Yu-Chin Chiu, PhD, Assistant Professor
Cognitive Neuroscience of Cognitive Control Lab

Description of research area

Cognitive control is a psychological construct that refers to a collection of processes that allow us to orchestrate thought and action according to our goals. For instance, we are able switch from one task to another by implementing cognitive control over task sets. While cognitive control is crucial to our everyday behavior, the underlying mechanisms are not well understood. Our lab conducts behavioral and neuroimaging experiments that try to specify the neurocognitive architecture of cognitive control and how it interacts with perception, learning, and memory.

Description of undergraduate participation

Students (3 credit hours) will

(1) Assist with running experiments in the lab (behavioral, fMRI, or EEG experiments) for 6-8 hrs weekly
(2) Participate in the lab's journal club (1 hr weekly, likely Wednesday 1:30-2:30 pm) to learn about the cognitive control literature and present at least paper during a semester

Research setting

Our lab is located on the 3rd floor of the Psychology Building (PSYC).

Number of assistants needed

4 students are needed

Contact information

Please submit the following materials under the subject line “PSY390 [Fall 2022]” to yuchinchiu@purdue.edu:

- Transcript, CV
- What do you expect to learn from this experience?

Additional comments

- Prior programming experience (Python, R, matlab, etc) is a big plus, but is not required