WASITA MAHAPHANIT

wasita@brown.edu

EDUCATION

B.S. **Brown University**
2014 - 2018
Cognitive Neuroscience

Relevant coursework: Affective Neuroscience, Computational Cognitive Neuroscience, Computer Vision, Deep Learning, Research Methods & Design, Computational Methods in Mind, Brain, & Behavior, fMRI Theory & Practice, Quantitative Methods in Psychology

Honors Thesis: "The cost of having better alternatives"
Advisor: Amitai Shenhav

RESEARCH EXPERIENCE

2018 - Present **Lab Manager**
Brown University
Dept. of Cognitive, Linguistic, & Psychological Sciences (CLPS)
Advisor: Michael J. Frank

Manage laboratory administration and conduct 2 research projects. The 1st project investigates the mechanisms of active information-seeking behavior to assess impulsivity under uncertainty in obsessive compulsive disorder (OCD), using a modified incentivized beads task, behavioral analysis, and computational modeling. The 2nd project looks at the influence of perceptual uncertainty on stimulus value in reward learning using a partially observable Markov decision process (POMDP) to describe behavior in a reinforcement learning task.

Duties include behavioral and electroencephalography (EEG) task design and programming, behavioral and EEG data collection and preprocessing, finances management, IRB protocol writing and maintenance, laboratory website and internal wiki creation and maintenance, assistance with grant renewals, management and training of undergraduate research assistants, and assistance with virtual machine/web server (for psiTurk/Amazon Mechanical Turk studies) troubleshooting.

2016 - 2018 **Research Assistant**
Brown University
Dept. of Cognitive, Linguistic, & Psychological Sciences (CLPS)
Advisor: Amitai Shenhav

Assisted with behavioral and EEG data collection and stimulus development on a project involving choice anxiety. Secured university grant to lead a project exploring the subjective experience of social media distractors during an effortful cognitive control task. Designed, conducted, presented, and wrote up an honors thesis project leveraging EEG to find neural correlates for individual differences in task performance and task-switching behavior.

2016 **Research Intern**
Center for Neurorestoration and Neurotechnology
Providence VA Medical Center
Advisor: Dr. Noah Philip

Administered transcranial magnetic stimulation (TMS) therapy on Veterans with comorbid major depressive disorder (MDD) and post-traumatic stress disorder (PTSD). Performed clinical interviews to assess treatment efficacy.

TEACHING EXPERIENCE

Spring 2018 **Teaching Assistant**
Brown University
Dept. of Computer Science
Intro to Scientific Computing and Problem Solving
Professor: Daniel Potter

Fall 2017 **Teaching Assistant**
Brown University
Dept. of Cognitive, Linguistic, & Psychological Sciences (CLPS)
Intro to Programming
Professor: Thomas Serre

AWARDS & HONORS

2018 B.S. Cognitive Neuroscience with Honors

2018 Sigma Xi

POSTERS

Mahaphanit, W., Geana, A., & Frank, M.J. (2019). Perceptual Uncertainty Influences Stimulus Value Learning in Perceptual Categorization. In 4th Multidisciplinary Conference on Reinforcement Learning and Decision Making. Montreal, CA.

Provenza, P., Dastin-van Rijn, E., McLaughlin, N., Sheth, S., Viswanathan, A., Vogt, G., Ramakrishnan, R., McIngvale, E., Storch, E., **Mahaphanit, W.**, Nassar, M., Frank, M.J., Ertugrul, I., Jeni, L., Cohn, J., Borton, D., Goodman, W. (2019). Preliminary experience with developing adaptive Deep Brain Stimulation for Obsessive Compulsive Disorder. In 5th Annual BRAIN Investigator's Meeting. Washington, DC.

FELLOWSHIPS & SCHOLARSHIPS

Summer 2017	Karen T. Romer Undergrad Teaching & Research Award ($3,500) Brown University
Spring 2017	Karen T. Romer Undergrad Teaching &Research Award ($1,000) Brown University
2014 - 2016	Sorensen Family Chancellor's Scholarship Brown University
2014	Maine Medical Center Junior Volunteer Scholarship ($2,000)

SKILL SET

Programming Languages	MATLAB Familiar with Python, R, JavaScript, bash
Software & Libraries	PsychToolBox, jsPsych (w/ React), psiTurk, Adobe Photoshop & Illustrator, DB browser for SQLite Familiar with TensorFlow (Keras wrapper), scikit-learn, GitHub, PsychoPy, npm, cluster computing
Platforms	Microsoft Windows, Mac, Linux (Ubuntu) Familiar with Unix
Misc.	French (limited proficiency), Thai (limited proficiency) Lyra/Cerceau performer and instructor

LEADERSHIP & EXTRACURRIULARS

2014 - Present	**Lyra/Aerial Hoop Performer & Instructor** Brown Aerial Arts & Acrobatics
2016 - 2018	**Publicity Chair** Brown Aerial Arts & Acrobatics
2016 - 2017	**Social Chair** Infinity! Art Gallery
2015 - 2016	**Comic Artist & Illustrator** Brown Daily Herald
2014 - 2016	**Social Chair** Quest Scholars @ Brown
2014 - 2015	**Member** Women in Science and Engineering (WiSE) @ Brown
2014 - 2015	**Member** New Scientist Program (STEM peer mentoring group)

TRAINEES

2018 - 2019	Cleveland (Rob) Chambliss, Undergrad RA, Brown University
2018 - 2019	Caroline Hunt, Undergrad RA, Brown University
2018 - 2019	Juan Muneton Gallego, Undergrad RA, Brown University
2017 - 2018	Hattie Xu, Undergrad RA, Brown University

RESEARCH TRAINING

2018	Carney Computational Modeling Workshop Brown University