

EDUCATION

B.S. Psychology (2015)

University of California, San Diego (UCSD)

HONORS

2012 – 2015 UCSD Provost Honors

2015 UCSD Cognitive Science Department Instructional Assistant Award

2015 UCSD Psychology Department Honors Student

RESEARCH EXPERIENCE

1) **Social Science Research Professional** [2015 – Present]

Department of Psychology, Stanford University

Responsibilities

I worked with Dr. Russell Poldrack and Dr. Patrick Bissett on two large multi-million dollar NIH-funded grants and 15+ behavioral studies. Utilizing experimental psychology and MRI, our projects were aimed at understanding the behavioral and neural structure of self-regulation (ability to regulate behavior in service of long-term goals), the constituent parts of self-regulation, and reward learning. Finally, I consulted on the usability of expfactory.org, a custom built website for open-source code for tasks and surveys, by suggesting features, identifying bugs, and ensuring effective resolutions with a project that seeks to elucidate the structure of self-regulation. Additionally, I have worked on inhibition and reinforcement learning projects. My specific responsibilities include programming web-based experiments, literature reviews, statistical analysis of data, recruiting and running participants for in-lab, mturk, and fMRI projects. To date, I have collected approximately ~500 MTurkers, ~1300 in-lab behavioral subjects, and I have acquired ~150 hours of MRI scan time.

2) **Research Assistant** [2014 – 2015]

Department of Cognitive Science, UCSD

Responsibilities

I worked with Dr. Douglas Nitz And Dr. Jake Olson on a project that characterizes the efferents of posterior parietal cortex and their role in spatial navigation in rats. My responsibilities included daily handling to acclimate rats to the task, creating electrodes to detect neural activity, running navigation studies on a maze, data analysis of single neurons and population ensembles, and confirming the site of electrode recordings. (data analysis of single neurons and population dynamics using MATLAB)

3) **Research Assistant** [2014 – 2015]

Department of Cognitive Science, UCSD

Responsibilities

I assisted Dr. Lera Boroditsky and Dr. Rose Hendricks on a project that seeks the relation between mental space and time in humans. I was responsible for recruiting and running in-lab behavioral subjects and to attend weekly discussion meetings.

TEACHING EXPERIENCE

Instructional Assistant - COGS 11 (UCSD)

Responsibilities

I assisted Dr. Mary Boyle with COGS11 (minds and brains). My responsibilities included attending all classes and heading weekly sections. For these weekly sections, I constructed lesson plans and quizzes that covered the previous weeks assignments. In addition, I held weekly office hours for student who had additional questions.

PUBLICATIONS

- Eisenberg, I. W., Bissett, P., Enkavi, A. Z., **Li, J.**, MacKinnon, D., Marsch, L., & Poldrack, R. A. (2019). *Uncovering mental structure through data-driven ontology discovery*. Nature Communications, 10, 2319.
- Wimmer, G.E., **Li, J. K.**, Gorgolewski, K. J., & Poldrack, R. A. (2018). *Reward Learning over Weeks Versus Minutes Increases the Neural Representation of Value in the Human Brain*. The Journal of Neuroscience, 38(35):7649 –7666
- Eisenberg, I. W., Bissett, P. G., Canning, J. R., Dallery, J., Enkavi, A. Z., Whitfield-Gabrieli, S., Gonzales, O., Green, A. I., Greene, M. A., Kiernan, M., Kim, S. J., **Li, J.**, Lowe, M., Mazza, G. L.,...Poldrack, R. A. (2017) *Applying novel technologies and methods to inform the ontology of self-regulation*. Behavior Research and Therapy. Doi:101016/j.brat.2017.09.01
- Sochat, V. V., Eisenberg, I. W., Enkavi, A. Z., **Li, J.**, Bissett, P. G., & Poldrack, R. A. (2016). *The experiment factory: Standardizing behavioral experiments*. Frontiers in Psychology, 7,1-9.

PRESENTATIONS

- Wimmer, G. E., **Li, J. K.**, & Poldrack, R. A. (June, 2017) *Reinforcement Learning over time: effects of spacing on the mechanisms supporting feedback learning*. Poster presented at the Organization of Human Brain Mapping in Vancouver, Canada.
- Bissett, P. G., Shine, J. M., Durnez, J., **Li, J. K.**, Gorgolewski, K. J., Esteban, O., Blair, R., & Poldrack, R. A. (June, 2017) *Behavioral and Neural Interactions Between Working Memory and Stop-Signal Inhibition*. Poster presented at the Organization of Human Brain Mapping in Vancouver, Canada.
- Li, J. K.**, Olson, J., & Nitz, D. A. (June, 2015) *Characterizing the role of PPC efferents*. Poster presented at the UCSD Psychology Honors Poster Session

SKILLS

- Experimental Psychology
- Python, MATLAB, JavaScript, HTML, CSS, Bash
- Data cleaning, processing, and management
- Create web-browser based experiments
- In-person research sessions
- Data analysis