

Tyler Adkins

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Summary

PhD candidate in cognitive neuroscience with 6+ years of experience conducting quantitative research on human behavior. Actively seeking positions in data science and user research so I can apply my domain knowledge and technical skills to the development of cutting-edge technologies.

Skills

Python (pandas, numpy, sklearn), R (ggplot, dplyr, brms, rstan), Stan, Git, Bash, SQL, experimental design, data cleaning, data visualization, Bayesian statistics, machine learning, project management, quantitative reasoning, scientific writing, public speaking, teaching, mentoring, problem-solving

Employment

9/2017 – Present Graduate Student Researcher University of Michigan Ann Arbor, MI

Cleaned and visualized complex datasets, programmed computational models of behavioral data and machine learning models of brain images, collaborated with diverse teams of scientists on many research projects, reported research findings in reputable journals and conferences, mentored colleagues in data analysis.

1/2018 – 4/2020 Graduate Student Instructor University of Michigan Ann Arbor, MI

Created educational materials and assessments for instructors and students in large lecture courses, provided instruction and tutoring to students in multiple discussion sections, graded written assignments and quizzes

9/2015 – 9/2017 Research Assistant University of Michigan Ann Arbor, MI

Configured eye-tracking hardware and software, implemented econometric models of movement planning.

Education

9/2017 – Present Ph.D. in Psychology (CCN) University of Michigan Ann Arbor, MI

1/2015 – 9/2017 B.A. in Cog. Sci. & Philosophy University of Michigan Ann Arbor, MI

Awards

2021 Swets Memorial Award for Psych. (\$25k)
2019 NSF GRFP (honorable mention)
2018 Scholarship in Math. Psych. (\$3k)
2017 Rackham Merit Fellowship (\$100k)
2016 Phi Kappa Phi
2016 LSA Internship Scholarship (\$1.5k)
2015 Sweeney Merit Scholarship (\$3k)
2014 Dewey J. Hoitenga Essay Prize

Service

2021 Departmental Associate
2020 CCN Forum Committee
2020 CCN Admissions Committee
2019 CCN Social Committee
2018 CCN Recruitment Committee

Research Projects

Reward modulates cortical representations of action

<https://doi.org/10.1016/j.neuroimage.2020.117708>

Heuristics contribute to sensorimotor decisions under risk

<https://doi.org/10.3758/s13423-021-01986-x>

Interactive effects of value and valence on skilled action

<https://www.nature.com/articles/s41598-021-88286-5>

Rewards interact with explicit knowledge in skilled action

<https://journals.physiology.org/doi/abs/10.1152/jn.00575.2019>

Reward accelerates goal preparation under conflict

<https://www.psycharxiv.com/hv9mz/>

How well did people forecast the spread of COVID-19?

<https://www.psycharxiv.com/2d5r9/>

Icon arrays reduce vaccine hesitancy

<https://www.psycharxiv.com/dcx8p/>

Reward influences the allocation of working memory resources

<https://www.biorxiv.org/content/10.1101/2021.06.08.447414v1>