

EMALIE GRACE MCMAHON

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EDUCATION *Johns Hopkins University, Baltimore, MD* 2019-*current*
M.A. in Cognitive Science

University of Tennessee, Knoxville, TN 2013-2017
B.A. in Honors Neuroscience

EXPERIENCE *National Institute of Mental Health, Bethesda, MD* 2017-2019
Research Assistant
Advisors: Leslie Ungerleider and Maryam Vaziri-Pashkam

University of Tennessee, Knoxville, TN 2015-2017
Honors Thesis Student
Advisor: Daniela Corbetta

AWARDS National Science Foundation Graduate Research Fellowship 2019-*current*
Cognitive Computational Neuroscience Student Travel Award 2018
National Institutes of Health Research Training Award 2017-2019
University of Tennessee Neuroscience Outstanding Graduate 2017
University of Tennessee Chancellor's Honors Scholarship 2013-2017

PUBLICATIONS **McMahon, E.**, Kim, D., Mehr, S. A., Nakayama, K., Spelke, E., & Vaziri-Pashkam, M. (2021). The ability to predict actions of others from distributed cues is still developing in six- to eight-year-old children. *Journal of Vision*, 21(5): 14, 1–11. doi: 10.1167/19.7.16

Lam, K. C., Pereira, F., Vaziri-Pashkam, M., Woodard, K., & **McMahon, E.** (2020, June 22). Understanding Object Affordances Through Verb Usage Patterns. arXiv: 2007.04245v1.

McMahon, E., Zheng, C. Y., Pereira, F., Gonzalez, R., Ungerleider, L.G. & Vaziri-Pashkam, M. (2019) Subtle predictive movements reveal actions regardless of social context. *Journal of Vision*, 19(7): 1-16. doi: 10.1167/19.7.16

Corbetta, D., Wiener, R. F., Thurman, S. L., & **McMahon, E.** (2018). The Embodied Origins of Infant Reaching: Implications for the Emergence of Eye-Hand Coordination. *Kinesiology Review*, 7: 10-17. doi: 10.1123/kr.2017-0052

ORAL PRESENTATIONS **McMahon, E.**, Gonzalez, R., Nakayama, K., Ungerleider, L.G., & Vaziri-Pashkam, M. Understanding Action Prediction with Machine Learning and Psychophysics. *Conference on Cognitive Computational Neuroscience*; Sept. 5 – 8, 2018; Philadelphia, PA. link

**POSTER
PRESENTATIONS**

McMahon, E., Bonner, M. F., & Isik, L. A large-scale, naturalistic dataset of two-person social actions. *Vision Science Society*; May 21 - 26, 2021; Virtual.

Vaziri-Pashkam, M., Woodward, K., **McMahon, E.**, & Ungerleider, L.G. Representations for Grasp Relevant Parts of Objects in the Human Intraparietal Sulcus. *Vision Science Society*; June 19 - 24, 2020; Virtual.

Woodward, K., **McMahon, E.**, Ungerleider, L.G., & Vaziri-Pashkam, M. Similarity of objects based on the way they are grasped. *Vision Science Society*; June 19 - 24, 2020; Virtual.

McMahon, E., Zheng, C. Y., Pereira, F., Gonzalez, R., Ungerleider, L.G., & Vaziri-Pashkam, M. Humans and Machine Learning Classifiers Can Predict the Goal of an Action Regardless of Social Motivations of the Actor. *Vision Science Society*; May 17 - 22, 2019; St. Petersburg, FL.

McMahon, E., Zheng, C. Y., Pereira, F., Gonzalez, R., Ungerleider, L.G., & Vaziri-Pashkam, M. Exploring Predictive Information in Action with Psychophysics and Machine Learning. *Society for Neuroscience*; Nov. 3 - 7, 2018; San Diego, CA.

McMahon, E., Wiener, R., DiMercurio, A., Connell, J., & Corbetta, D. An Analysis of Prospective Reaching in 9-Month-Old Infants Using Eye-Tracking. *textitNorth American Society for Psychology of Sport and Physical Activity*; June 4 - 7, 2017; San Diego, CA.

TEACHING

Johns Hopkins University

Fall 2020

Role: Teaching Assistant

Course: Introduction to Cognitive Neuropsychology

Instructor: Michael McCloskey

Johns Hopkins University

Spring 2020

Role: Teaching Assistant

Course: Visual Cognition

Instructor: Leyla Isik

MENTORSHIP

Johns Hopkins University

2019 - 2020

Mentees: Justin, Susan, and Ergi

National Institute of Mental Health

Summer 2018

Mentee: Kelsey

SERVICE

Skype a Scientist community outreach

2020

JHU CogSci Department Culture Subcommittee

2020

President of UTK Nu Ro Psi Honors Society in Neuroscience

2016-2017

UTK Undergraduate Research Student Organization

2015-2017

UTK PURSUIT Journal of Undergraduate Research

2015-2017

**RESEARCH
TECHNIQUES**

Proficient in

Python, MATLAB

Experience with

BASH, R, L^AT_EX

Machine learning tools

PyTorch, Scikit-learn

Psychophysics

Eyetracking, PsychoPy, JavaScript

fMRI analysis

FreeSurfer, AFNI