Anna Mynick

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Education

Dartmouth College, Hanover, NH — PhD student in Cognitive Neuroscience, 2019-Present
Advisor: Caroline Robertson
Wellesley College, Wellesley, MA — Bachelor of Arts in Neuroscience, 2013-2017
Advisor: Mike Wiest

Academic Positions

Technical Associate, Kanwisher Lab, MIT — 2017-2019
Supervisor: Nancy Kanwisher
Undergraduate Researcher, Kanwisher Lab, MIT — 2014-2017
Advisor: Caroline Robertson

Awards

National Eye Institute Early Career Scientist Travel Grant — 2024
CVS Active Vision Symposium Travel Award — 2022
NSF Graduate Research Fellowship Program, Honorable Mention — 2020
Sigma Xi Scientific Honor Society — 2017

Skills

MATLAB, Unix, Git, R. Some experience with: Python, Unity, C#, SPSS

Publications

Journal Articles

Mynick, A., Steel, A., Jayaraman, A., Botch, T. L., Burrows, A., & Robertson, C. E. (2024). Memory-based predictions prime perceptual judgments across head turns in immersive, real-world scenes. PsyArXiv.

Steel, A., Garcia, B. D., Goyal, K., **Mynick, A.**, & Robertson, C. E. (2023). Scene Perception and Visuospatial Memory Converge at the Anterior Edge of Visually Responsive Cortex. Journal of Neuroscience, 43(31), 5723-5737.

Kosakowski, H. L., Norman-Haignere, S., **Mynick, A.**, Takahashi, A., Saxe, R., & Kanwisher, N. (2023). Preliminary evidence for selective cortical responses to music in one-month-old infants. Developmental Science, e13387.

Mynick, A., & Steel, A. (2023). Dissociating Hippocampal and Cortical Contributions to Predictive Processing. Journal of Neuroscience (Opinion Article), 43(2), 184-186.

Murty, N. A. R., Teng, S., Beeler, D., **Mynick, A.**, Oliva, A., & Kanwisher, N. (2020). Visual experience is not necessary for the development of face-selectivity in the lateral fusiform gyrus. Proceedings of the National Academy of Sciences, 117(37), 23011-23020.

Isik, L., **Mynick, A.**, Pantazis, D., & Kanwisher, N. (2020). The speed of human social interaction perception. NeuroImage, 215, 116844.

Robertson, C. E., Hermann, K. L., **Mynick, A.**, Kravitz, D. J., & Kanwisher, N. (2016). Neural representations integrate the current field of view with the remembered 360 panorama in scene-selective cortex. Current Biology, 26(18), 2463-2468.

Talks

Mynick, A., Burrows, A., Garcia, B., Botch, T.L., Steel, A., Robertson, C. (2024). Memory-based predictions prime perceptual judgments of upcoming scene views in real-world, 360º environments. Guest lecture, Real World Scene Perception course, Dartmouth College.

Mynick, A., Cohen, M.A., Jayaraman, A., Goyal, K., Robertson, C. (2024). Predictive processing of upcoming scene views in immersive environments: evidence from continuous flash suppression. Dartmouth College Cognitive Brown Bag Meeting.

Mynick, A., Cohen, M.A., Jayaraman, A., Goyal, K., Robertson, C. (2023). Examining the role of spatial reference frames on visual memory in immersive, real-world environments. Dartmouth College Cognitive Brown Bag Meeting.

Mynick, A., Burrows, A., Garcia, B., Botch, T.L., Steel, A., Robertson, C. (2022). Memory-based predictions in real-world, 360º environments. Dartmouth College Cognitive Brown Bag Meeting.

Mynick, A., Robertson, C., & Kanwisher, N. (2017). Active Exploration Benefits Memory for 360º Scenes Experienced with Headmounted Virtual Reality. Vision Sciences Society Annual Meeting.

Abstracts

Mynick, A., Cohen, M.A., Jayaraman, A., Goyal, K., Robertson, C. (2024). Predictive processing of upcoming scene views in immersive environments: evidence from continuous flash suppression. Vision Sciences Society Annual Meeting .

Mynick, A., Botch, T.L., Burrows, A., Jayaraman, A., Steel, A., Robertson, C. (2023). Memory-based predictions facilitate perceptual judgements across head-turns in naturalistic scene perception. Conference on Cognitive Computational Neuroscience Annual Meeting.

Mynick, A., Botch, T.L., Burrows, A., Garcia, B., Jayaraman, A., Steel, A., Robertson, C. (2023). Memory-based predictions facilitate perceptual judgements across head-turns in naturalistic scene perception. Vision Sciences Society Annual Meeting .

Mynick, A., Burrows, A., Garcia, B., Botch, T.L., Steel, A., Robertson, C. (2022). Memory-based predictions across head-turns in naturalistic scene perception. Center for Visual Science Active Vision Symposium Annual Meeting.

Mynick, A., Burrows, A., Garcia, B., Botch, T.L., Steel, A., Robertson, C. (2022). Memory-based predictions across head-turns in naturalistic scene perception. Vision Sciences Society Annual Meeting.

Garcia, B., Steel, A., **Mynick, A.**, Goyal, K., Robertson, C. (2022). A cortical network representing spatial context of visual scenes in posterior cerebral cortex. Vision Sciences Society Annual Meeting.

Steel, A., Garcia, B, Goyal, K., **Mynick, A.**, Robertson, C. (2022). Representation of known spatial context in posterior cerebral cortex. Cognitive Neuroscience Society Annual Meeting.

Mynick, A., Burrows, A., Garcia, B. Botch, T.L., Robertson, C. (2021). Discrete scene snapshots prime perception of 360° space in immersive real-world scenes. Society for Neuroscience Annual Meeting.

Mynick, A., Garcia, B., & Robertson, C. (2021). Discrete field-of-view primes reinstate holistic representations of 360º space. Vision Sciences Society Annual Meeting.

Murty, N. A. R., Teng, S., Beeler, D., **Mynick, A.**, Oliva, A., & Kanwisher, N. (2019). Strong face selectivity in the fusiform can develop in the absence of visual experience. Vision Sciences Society Annual Meeting.

Isik, L., **Mynick, A.**, Koldewyn, K., & Kanwisher, N. (2018). Rapid detection of social interactions in the human brain. Vision Sciences Society Annual Meeting.

Robertson, C., Hermann, K., **Mynick, A.**, Kravitz, D., & Kanwisher, N. (2016). Panoramic Memory Shapes Visual Representations of Scenes. Vision Sciences Society Annual Meeting.

Robertson, C., **Mynick, A.**, Raja, S., & Kanwisher, N. (2015). Advancing a Biomarker of Reduced GABAergic Action in the Autistic Brain. Society for Neuroscience Annual Meeting.

Teaching Experience

Dartmouth College

Teaching Assistant, PSYC36: Systems Neuroscience — 2022
Teaching Assistant, PSYC 38: Cognitive Neuroscience — 2022
Teaching Assistant, PSYC 10: Experimental Design, Methodology, and Data Analysis Procedures — 2021
Teaching Assistant, PSYC 6: Introduction to Neuroscience — 2020

Community and Mentorship

Dartmouth College

Graduate Committee graduate student liaison — 2021 -2023
Undergraduate research mentor, Adithi Jayaraman ‘24 — 2021-present
Undergraduate research mentor, Jeremy Gart ‘25 — 2024-present