# **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.
- **Mynick, A.**, Steel, A., Jayaraman, A., Botch, T.L., Burrows, A., Robertson, C. (2023). Memory-based predictions prime perceptual judgments across head turns in immersive, real-world scenes. Manuscript submitted for publication.
- 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, 360<sup>o</sup> 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, 360° environments. Dartmouth College Cognitive Brown Bag Meeting.
- Mynick, A., Robertson, C., & Kanwisher, N. (2017). Active Exploration Benefits Memory for 360° 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 360° 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