

YINQI HUANG

Atlanta, GA · yhuang994@gatech.edu · <https://yinqi Huang.github.io/>

EDUCATION

Georgia Institute of Technology Ph.D. Psychology, <i>Minor in Electrical and Computer Engineering</i>	Atlanta, GA, USA 2024 - Present
University of Arizona M.A. Psychology	Tucson, AZ, USA 2022 - 2024
University of Toronto Honours B.Sc. Psychology, <i>Minor in Biology and Anthropology</i>	Toronto, ON, Canada 2016 - 2020

PUBLICATIONS

- Huang, Y.**, Cai, Y., Li, M., Chen, Y., & Wilson, R. (2026). **Human learning dynamics during teleoperation of surgical robots.** *npj Science of Learning*. <https://doi.org/10.1038/s41539-026-00442-6>
- Huang, Y.** (2026). **Understanding as designed projection.** *Computational Brain & Behavior*. <https://doi.org/10.1007/s42113-026-00299-3>
- Vishwanath, A., Watson, M. F., Gin, M. K., Markham, D. C., **Huang, Y.**, Du, Y. K., Ekstrom, A., & Wilson, R. C. (2025). **Bayesian cue combination best predicts straight-line distance estimation with translated visual landmarks.** *Neuropsychologia*. <https://doi.org/10.1016/j.neuropsychologia.2025.109351>
- Huang, Y.** (2023). **Leveraging virtual reality to understand human spatial navigation.** *Nature Reviews Psychology*. <https://doi.org/10.1038/s44159-023-00243-3>

PREPRINTS

- Huang, Y.**, Vishwanath, A., Du, Y. K., Watson, M. F., Asiri, O., Ekstrom, A., & Wilson, R. (under review). **Modeling the journey as well as the destination: A control theory account of rotational navigation.** <https://doi.org/10.64898/2026.06.02.729319>
- Hong, B., Tran, M. A., Cheng, H., **Huang, Y.**, & Barense, M. D. (under review). **Temporal proximity affects the detailed recall of events in a nested hierarchy.** <https://osf.io/yfn6m/>

INVITED TALKS

- Huang, Y.** (Jul 2026). **The dynamics of control in angular path integration.** Interdisciplinary Navigation Symposium (iNAV), Banff, Alberta, Canada.
- Huang, Y.** (Mar 2026). **The dynamics of control in angular path integration.** Computational Cognition Conference, Center of Excellence in Computational Cognition, Georgia Institute of Technology, Atlanta, GA, USA.
- Huang, Y.** (Dec 2023). **The cognitive and neural computations underlying multi-sensory integration in naturalistic spatial navigation.** 8th Annual Psychology Graduate Student and Postdoc Data Blitz, Department of Psychology, University of Arizona, Tucson, AZ, USA.

POSTERS

- Huang, Y.**, Du, Y. K., Ekstrom, A., & Wilson, R. (2024). **Control theory model predicts human velocity during multi-sensory navigation in virtual reality.** In Society for Mathematical Psychology, Psychonomics 2024 Satellite Meeting, New York, NY.
- Huang, Y.**, Du, Y. K., Wilson, R., & Ekstrom, A. (2023). **Neural correlates of mismatch detection and integration of visual and body-based cues in virtual reality.** In Society for Neuroscience Conference, Washington, DC.
- Hong, B., Tran, M. A., Cheng, H., **Huang, Y.**, & Barense, M. D. (2020). **How do temporal context and event boundaries affect recall richness for Forrest Gump?** In Context and Episodic Memory Symposium, Philadelphia, PA.
- Huang, Y.**, Cheng, H., Tran, M., Hong, B., & Barense, M. D. (2020). **Testing retrieved-context models and event boundaries in naturalistic events.** In Lake Ontario Visionary Establishment, Ontario, Canada.

GRANTS

OpenAI Researcher Access Program (API Credits) \$1,000 <i>Role: Co-Applicant</i> <i>Responsibility: Conceived the project, designed the study, led data collection and analysis, and prepared manuscripts.</i> <i>Project: LLM-assisted medical decision-making</i>	OpenAI Jul 2026 – Jun 2027
SensorLab Seed Grant \$46,119.50	University of Arizona Health Sciences

Role: Student Researcher (PIs: Arne D. Ekstrom and Robert C. Wilson)
Responsibility: Co-conceived the project, co-designed the study, led data collection and analysis, and contributed to reports and manuscripts.
Project: VR Navigation Study for Young Adults Jul 2023 – Jun 2024
Research and Project (ReaP) Grant \$1,400 University of Arizona
Role: Principal Investigator (Student PI)
Responsibility: Conceived the project, designed the study, conducted data collection and analysis, and prepared manuscripts.
Project: Computational Modeling of Path Integration and Landmark Navigation Nov 2022 – Nov 2023

AWARDS

Modeling, Simulation & Training Fellowship Link Foundation
Honorable Mention (top 10%) May 2026
Outstanding Research Award \$150 University of Arizona
Cognitive Science in Graduate Interdisciplinary Programs Dec 2023
Trainee Professional Development Award \$1,275 Society for Neuroscience
2023 Society for Neuroscience Conference Nov 2023
Computational Neuroscience Summer School Fellow Dartmouth College
Methods in Neuroscience at Dartmouth (MIND) Summer School Aug 2023
Best Presentation Award, Years 1-2 \$250 University of Arizona
7th Annual Psychology Graduate Student and Post-doc Data Blitz Dec 2022

TEACHING

Instructor School of Psychology, Georgia Institute of Technology
PSYC 2270 Engineering Psychology [30 students] Fall 2026
Teaching Assistant School of Psychology, Georgia Institute of Technology
PSYC 3803 Math of the Mind [16 students] Fall 2025
Teaching evaluation: Overall effectiveness 4.50/5.00 (4 responses).
Teaching Assistant School of Psychology, Georgia Institute of Technology
PSYC 2012 Introduction to Research Methods [50 students] Summer 2025
Teaching evaluation: Overall effectiveness 5.00/5.00 (2 responses).
Instructor School of Psychology, Georgia Institute of Technology
PSYC 4031 Psychology Capstone [40 students] Spring 2025
Teaching evaluation: No reportable evaluation (insufficient responses).
Teaching Assistant and Guest Lecturer School of Psychology, Georgia Institute of Technology
PSYC 1101 General Psychology [150 students] Fall 2024
Teaching evaluation: Overall effectiveness 4.77/5.00 (71 responses).
Guest Lecturer Osher Institute, University of Arizona
Course: Vestibular System [20 students] 2023 Spring
Teaching Assistant and Guest Lecturer Department of Psychology, University of Arizona
Course: Drugs and the Brain [200 students] 2023 Spring
Teaching Assistant and Guest Lecturer Department of Psychology, University of Arizona
Course: Psychological Measurement and Statistics [200 students] 2022 Fall

SERVICE AND OUTREACH

Brown Bag Talks Organizer Georgia Institute of Technology
School of Psychology, Cognition and Brain Science 2025–2026
Graduate Representative Georgia Institute of Technology
Graduate Student Government Association 2024–2025
Graduate Representative University of Arizona
Department of Psychology 2022–2024
Ad-hoc Paper Reviewer Conference
Conference on Cognitive Computational Neuroscience 2023
Ad-hoc Grant Reviewer University of Arizona
Graduate and Professional Student Council 2022–2023

MEMBERSHIP

Society for Neuroscience

PROGRAMMING & RESEARCH COMPUTING

Python (NumPy, Pandas, Scikit-learn, PyTorch), MATLAB (EEGLAB, SPM12), R, C# (Unity), JavaScript, Qualtrics, Git, Linux/Bash, Slurm HPC