

Jiahuan Liu

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Education

- Aug 2025 - Present **Ph.D., Biology, University of Virginia, Charlottesville, USA**
GPA: 4.00/4.00
Track: Neurobiology
- Sep 2023 - May 2025 **M.A., Psychology, New York University, New York, USA**
GPA: 3.84/4.00
Main courses: Mathtools in Neuroscience, Bioinformatics, Cognitive neuroscience, etc.
- Jan 2022 - Jun 2023 **B.S., Psychology, James Cook University, Singapore**
GPA: 5.00/7.00
Main courses: Programming, Introductory Machine Learning, etc.
- Sep 2017 - Sep 2020 **B.S., Psychology, University of Tuebingen, Tuebingen, Germany**
GPA: 3.58/4.00
Main courses: General Psychology, Biological Psychology, Statistic, Developmental Psychology, etc.

Research Experience

- 2025 - Present **Doctoral Researcher** (with Dr. Jianhua Cang)
Department of Biology, University of Virginia, VA
Vision; E-physiology; Computation; Behavior; Mice; Treeshrew
- 2023 - 2025 **Master Research Internship** (with Dr. David Schoppik & Dr. Yunlu Zhu)
NYU Grossman School of Medicine, NY
Posture; Navigation; Circadian; Behavior; Zebrafish
- 2019 - 2020 **Bachelor Research Internship** (with Dr. Yi Jiang)
The Institute of Biophysics, Chinese Academy of Sciences, Beijing
Vision; Gravity perception; Behavior; Zebrafish

Awards and Achievements

- Jul 2026 **Selected Participant** - Neuromatch Summer School (Computational Neuro)
- Feb 2026 **Selected Participant** - Flatiron CCN Neural Data Analysis Workshop
- Dec 2025 **Travel Award** - UVA EXPAND Traineeship
- Apr 2025 **1st Place** - 29th Annual NYU Master's Psychology Research Conference

Research Publications

Journal Articles

- 1 J. Liu, S. N. Davis, H. Gelnow, D. Schoppik, and Y. Zhu, "Lighting and circadian cues shape locomotor strategies for balance and navigation in larval zebrafish," *bioRxiv*, Nov. 2025. 📄 DOI: 10.1101/2025.11.18.689084
- 2 Y. Zhu, H. Gelnow, P. Leary, R. Raghuraman, N. Kamath, A. Kraja, J. Liu, Q. Bai, S.-i. Higashijima, E. A. Burton, and D. Schoppik, "Tau load in select brainstem neurons predicts the severity and nature of balance deficits in the absence of cell death," *bioRxiv*, Oct. 2024. 📄 DOI: 10.1101/2024.10.14.618073

- 3 J. Liu, "Impairment and control: Bilateral relationship between alcohol use disorder and working memory," *Journal of Education, Humanities and Social Sciences*, vol. 8, pp. 1599–1603, Feb. 2023, ISSN: 2771-2907. [DOI: 10.54097/ehss.v8i.4529](#)
- 4 X. Ma, X. Yuan, J. Liu, L. Shen, Y. Yu, W. Zhou, Z. Liu, and Y. Jiang, "Gravity-dependent animacy perception in zebrafish," *Research*, vol. 2022, Jan. 2022, ISSN: 2639-5274. [DOI: 10.34133/2022/9829016](#)

Poster and Presentation

Apr 2025 **Poster Presentation**, 29th Annual NYU Master's Psychology Research Conference, New York University, NY
1st Place Award

Skills

Language	Mandarin (Native), English (Excellent), German (Excellent, Goethe-Zertifikat B2).
Computer Skills	Python, Linux, Matlab, R, SPSS, Adobe Illustrator.
Lab Skills	E-physiology (Neuropixels, EEG, MEG), Imaging (confocal, fMRI), Sequencing.

Teaching Experience

Jan 2026 - May 2026	Organismal and Evolutionary Biology, UVA Department of Biology Lecturer: Manson Jessamyn Sara
Jul 2024 - Dec 2024	Master's Statistic, NYU Department of Psychology Lecturer: Stephanie Keer
May 2024	Poster Grader, NYU Department of Psychology Coordinator: Elizabeth A. Bauer, David Bosch
Jan 2024 - May 2024	Integrative Neural Science, NYU Center for Neuroscience Lecture: Christine Constantinople, Simon Peron