

# Jonathan S. Tsay

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## RESEARCH PROGRAM

Fundamental mechanisms underlying motor learning; The impact of natural and pathological aging on cognition and action;  
Understanding human behavior using large datasets and emerging technologies.

## METHODS

Psychophysics, neuropsychological testing, meta-analysis, and computational modeling.

## PROFESSIONAL EXPERIENCE

2024-present	Assistant Professor Department of Psychology Carnegie Mellon University, Pittsburgh, PA, USA
2024-present	Training Faculty Neuroscience Institute Carnegie Mellon University, Pittsburgh, PA USA
2024-present	Training Faculty Center of Neural Basis of Cognition Carnegie Mellon University, Pittsburgh, PA USA
2023-2024	Research Fellow MRC Cognition and Brain Science Unit University of Cambridge, Cambridge UK
2023-2024	Junior Research Fellow Queens' College University of Cambridge, Cambridge UK

## EDUCATION

2018-2023	PhD in Psychology, concentration in Cognitive Neuroscience Department of Psychology, University of California Berkeley, Berkeley, CA USA Advisor: Richard Ivry
2015-2018	Doctor of Physical Therapy Feinberg School of Medicine, Northwestern University, Chicago, Illinois USA
2011-2015	Bachelor of Arts in Mathematics Department of Mathematics, Northwestern University, Evanston, Illinois USA

## GRANTS

### Pending

2026-2029	Specifying the Mechanisms of Deliberate Error-Based Motor Learning National Science Foundation Principal Investigator, 25% effort, Total direct costs: \$599,000
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- 2026-2029 | Neural Mechanisms underlying Error-Based Motor Learning  
Klingenstein Foundation  
Principal Investigator, 25% effort, Total direct costs: \$350,000
- 2026-2028 | Neural mechanisms of motor imagery-based learning  
National Institutes of Health  
Co-Investigator, 8% effort, Total direct costs: \$3,930,000

**Current Funding**

- 2025-2027 | Neuromodulation of Cerebellar Circuitry with the Goal of an Implanted Cerebellar Prosthesis  
University of Pittsburgh Translational Neuroscience Institute  
Co-I (with PI: Jorge A. González Martínez), 1% effort, Total direct costs: \$200,000
- 2025-2026 | Developing a Personalized, Accessible, Effective Sign Language Curricula  
Carnegie Mellon University Dietrich Seed Grant  
PI, 100% effort, Total direct costs: \$10,000
- 2024-2027 | Generalization of motor learning in older adults and its impact on walking  
National Science Foundation award: #2419849  
Consultant (with PI: Gelsy Ovide), 1% effort, Total direct costs: \$800,886

**Completed Funding**

- 2023-2024 | Sensorimotor Representation and Plasticity for Sign Language  
Human Frontier Science Program  
Principal Investigator, 100% effort, Total direct costs: \$82,900
- 2022-2023 | Neural Mechanisms of Implicit and Explicit Sensorimotor Learning  
National Institutes of Health NRSA  
Principal Investigator, Total direct costs: \$53,000

**FELLOWSHIPS**

- 2025 | Eberly Center's Generative AI Teaching at Scale, Carnegie Mellon University
- 2024 | Queens' College Junior Research Fellowship, University of Cambridge
- 2022 | SURF-SMART Mentor Fellowship, University of California Berkeley
- 2022 | Travel Fellowship, ThinkGlobal RUB
- 2022 | Visiting Student Fellowship, University of British Columbia
- 2022 | Department Fellowship, University of California Berkeley
- 2022 | PODSII Fellowship, Foundation for Physical Therapy Research
- 2021 | Gorilla Grant, Gorilla Experiment Builder
- 2018 | Florence P. Kendall Fellowship, Foundation for Physical Therapy Research

**AWARDS**

- 2025 | CNBC Career Development Award, Center of the Neural Basis of Cognition
- 2023 | Early Career Researcher Oral Competition Winner, The Physiological Society
- 2023 | Star Reviewer, American Physiological Society
- 2022 | Outstanding Scholars in Neuroscience, NIH
- 2022 | Neural Control of Movement Scholarship Award, the Society of the Neural Control of Movement

2022	Research Achievement Award, Northwestern University Department of Physical Therapy and Human Movement Sciences
2017	Elizabeth Wood and Dorothy Voss Scholarship, Northwestern Feinberg School of Medicine

## PUBLICATIONS

For full PDFs of published papers, including peer reviews and commentaries, see [www.tsaylab.com/publications](http://www.tsaylab.com/publications).

### Working manuscripts (9)

In prep	Nyamsuren, I., Statham, A., Mitchell, E., Lam, P., <b>Tsay, J. S.</b> Against Hemispheric Specialization for Motor Learning
In prep	Niyogi, A., Cisneros, E., Ding, W., Ivry, R. B., <b>Tsay, J. S.</b> Understanding explicit strategy as a process of hypothesis testing
In prep	Cisneros, E., Collins, A., Abram, S., Ivry, R. B. *, <b>Tsay, J. S.*</b> No evidence for the role of the cerebellum in value-based decision making
In prep	<b>Tsay, J. S.</b> , D'Mello, A., Bastian, A., Ivry, R. B. Broadening the cerebellum's role in development
In prep	How are continuous motor skills learned and represented? Xia, M., Verstynen, T.*, <b>Tsay, J. S.*</b>
In prep	Abram, S., <b>Tsay, J. S.</b> , McDougle, M., Wang, T., Ivry, R. B. Differential roles of the cerebellum and basal ganglia in movement-dependent reinforcement learning.
In prep	Carranza, E., DeFreitas, R., Verma, N., Borda, L., Sorensen, E., Boos, A., Wittenberg, G., Fisher, L., Gerszten, P., Weber, D., Krakauer, J., <b>Tsay, J. S.</b> , Capogrosso, M., Pirondini, E. Spinal cord stimulation impairs sensory processing but improves motor control.
In prep	Villavicencio, P., Ziman, M., Straub, D., Will, M., de la Malla, C. *, <b>Tsay, J. S.*</b> Humans optimally integrate vision and proprioception during continuous movement.
In prep	Will, M., Luthe, J., Korke, B., Gruber, D., Buntjen, L., Ivry, R. B., <b>Tsay, J. S.*</b> , Stenner, M.-P.* Thalamic Deep Brain Stimulation Restores Motor Adaptation in Essential Tremor

### Manuscripts under review (3)

2025	Ding, W., Niyogi, A., <b>Tsay, J.S.</b> Hypothesis testing governs an efficiency-flexibility trade-off in strategic motor learning Revise and resubmit at npj Science of Learning
2026	Gacetta, E., Laws, M., Aulet, L., Teoman, O., <b>Tsay, J. S.</b> , Zapanta, C., Cantlon, J. Naturalistic Spatial Education Engages Distinct Neural Networks for Mental Rotation, Cognitive Load, and Linguistic Demands Revise and resubmit at PNAS
2026	Hsueh, T. Y., <b>Tsay, J. S.</b> , Tseng, Y. T. Motor Performance and Motor Learning in Children with Developmental Coordination Disorder Revise and resubmit at Quarterly of Chinese Physical Education

Peer-reviewed manuscripts (37)

- 2026 Warburton, M., & **Tsay, J. S.** (in press). Ten principles for crowdsourcing human behavior online. *Nature Human Behaviour*.
- 2026 Cisneros, E., Karny, S., Ivry, R. B.\*, & **Tsay, J. S.\*** (in press). Differential aging effects on implicit and explicit sensorimotor learning. *Nature Human Behaviour*
- 2026 Cipleu, M., Padmanabhan, S., Cooper, E., & **Tsay, J. S.** (in press). Minimal impact of low vision on explicit sensorimotor adaptation. *Neurorehabilitation and Neural Repair*
- 2026 **Tsay, J. S.**, & Ivry, R. B. (2026). Cerebellar contributions to action and cognition: Prediction, timescale, and continuity. *Proceedings of the National Academy of Sciences of the United States of America*, 123(15), e2524258123. <https://doi.org/10.1073/pnas.2524258123>
- 2026 **Tsay, J.S.** (2026). Motor Learning. In *Open Encyclopedia of Cognitive Science*. MIT Press. <https://doi.org/10.21428/e2759450.0b8879c0>
- 2026 Padmanabhan, S., Shadmehr, R., Klatzky, R. L., & **Tsay, J. S.** (2026). Goal uncertainty attenuates sensorimotor adaptation. *Journal of Neurophysiology*, 135(1), 1–10. <https://doi.org/10.1152/jn.00453.2025>
- 2026 Zhang, A., Ruitenberg, M. F. L., Warburton, M., Scott, S., & **Tsay, J. S.** (2026). Large reaching datasets quantify the impact of age, sex/gender, and experience on motor control. *Communications Psychology*. <https://doi.org/10.1038/s44271-025-00383-7>
- 2026 Wang, T., Morehead, J. R., Jiang, A., Ivry, R. B., & **Tsay, J. S.** (2026). Motor biases reflect a misalignment between visual and proprioceptive reference frames. *eLife*, 13(RP100715). <https://doi.org/10.7554/eLife.100715>
- 2025 Villavicencio, P., **Tsay, J. S.\***, & de la Malla, C.\* (2025). Target configuration determines how and what we learn during sensorimotor adaptation. *Npj Science of Learning*, 10(1), 89. <https://doi.org/10.1038/s41539-025-00379-2>
- 2025 Chen, Y., Abram, S., Ivry, R. B., & **Tsay, J. S.** (2025). Indirect feedback hinders explicit sensorimotor adaptation. *Proceedings. Biological Sciences*, 292(2051), 20251407. <https://doi.org/10.1098/rspb.2025.1407>
- 2025 Abram, S. J., **Tsay, J. S.**, Yosef, H., Reisman, D. S., & Kim, H. E. (2025). The detrimental effect of stroke on motor adaptation. *Neurorehabilitation and Neural Repair*. <https://doi.org/10.1177/15459683241309588>
- 2024 **Tsay, J. S.\***, Chandy, A. M.\* , Chua, R., Miall, R. C., Cole, J., Farnè, A., Ivry, R. B., & Sarlegna, F. R. (2024). Minimal impact of chronic proprioceptive loss on implicit sensorimotor adaptation and perceived movement outcome. *Journal of Neurophysiology*, 132(3), 770–780. <https://doi.org/10.1152/jn.00096.2024>

- 2024 **Tsay, J. S.**, Kim, H. E., McDougale, S. D., Taylor, J. A., Haith, A., Avraham, G., Krakauer, J. W., Collins, A. G. E., & Ivry, R. B. (2024). Fundamental processes in sensorimotor learning: Reasoning, refinement, and retrieval. *eLife*, 13. <https://doi.org/10.7554/eLife.91839>
- 2024 **Tsay, J. S.\***, Asmerian, H.\* , Germine, L. T., Wilmer, J., Ivry, R. B., & Nakayama, K. (2024). Large-scale citizen science reveals predictors of sensorimotor adaptation. *Nature Human Behaviour*. <https://doi.org/10.1038/s41562-023-01798-0>
- 2024 **Tsay, J. S.\***, Steadman, N.\* , Fleming, M., Gann, M., Di Giulio, I., Graef, C., Han, J., Jayasinghe, K., Mitchell, M., Chen, R., Raheel, K., Semedo, E., Simpetru, R., Utami, K. P., Williams, A., Zhu, Z., Stagg, C., & Haar, S. (2024). Bridging the gap between experimental control and ecological validity in human sensorimotor science. *The Journal of Physiology*, 602(17), 4085–4087. <https://doi.org/10.1113/JP287037>
- 2024 Ziman, M., & **Tsay, J. S.** (2024). The way we respond influences what we ultimately perceive. *Journal of Neurophysiology*, 131(5), 948–949. <https://doi.org/10.1152/jn.00162.2024>
- 2024 **Tsay, J. S.**, Parvin, D. E., Dang, K. V., Stover, A. R., Ivry, R. B., & Morehead, J. R. (2024). Implicit Adaptation Is Modulated by the Relevance of Feedback. *Journal of Cognitive Neuroscience*, 1–15. [https://doi.org/10.1162/jocn\\_a\\_02160](https://doi.org/10.1162/jocn_a_02160)
- 2024 Wang, T., Avraham, G., **Tsay, J. S.**, Abram, S. J., & Ivry, R. B. (2024). Perturbation variability does not influence implicit sensorimotor adaptation. *PLoS Computational Biology*, 20(4), e1011951. <https://doi.org/10.1371/journal.pcbi.1011951>
- 2024 Wang, T., Avraham, G., **Tsay, J. S.**, Thummala, T., & Ivry, R. B. (2024). Advanced feedback enhances sensorimotor adaptation. *Current Biology: CB*. <https://doi.org/10.1016/j.cub.2024.01.073>
- 2023 van Mastrigt, N. M., **Tsay, J. S.**, Wang, T., Avraham, G., Abram, S. J., van der Kooij, K., Smeets, J. B. J., & Ivry, R. B. (2023). Implicit reward-based motor learning. *Experimental Brain Research*. <https://doi.org/10.1007/s00221-023-06683-w>
- 2023 Wang, T., Luo, Y., Ivry, R. B., **Tsay, J. S.**, Pöppel, E., & Bao, Y. (2023). A unitary mechanism underlies adaptation to both local and global environmental statistics in time perception. *PLoS Computational Biology*, 19(5), e1011116. <https://doi.org/10.1371/journal.pcbi.1011116>
- 2023 **Tsay, J. S.\***, Irving, C.\* , & Ivry, R. B. (2023). Signatures of contextual interference in implicit sensorimotor adaptation. *Proceedings. Biological Sciences*, 290(1993), 20222491. <https://doi.org/10.1098/rspb.2022.2491>
- 2023 **Tsay, J. S.**, Tan, S., Chu, M. A., Ivry, R. B., & Cooper, E. A. (2023). Low vision impairs implicit sensorimotor adaptation in response to small errors, but not large errors. *Journal of Cognitive Neuroscience*, 35(4), 736–748. [https://doi.org/10.1162/jocn\\_a\\_01969](https://doi.org/10.1162/jocn_a_01969)
- 2022 **Tsay, J. S.**, Kim, H., Haith, A. M., & Ivry, R. B. (2022). Understanding implicit sensorimotor adaptation as a process of proprioceptive re-alignment. *eLife*, 11. <https://doi.org/10.7554/eLife.76639>

- 2022 **Tsay, J. S.\***, Kim, H. E.\* , Saxena, A., Parvin, D. E., Verstynen, T., & Ivry, R. B. (2022). Dissociable use-dependent processes for volitional goal-directed reaching. *Proceedings. Biological Sciences*, 289(1973), 20220415. <https://doi.org/10.1098/rspb.2022.0415>
- 2022 **Tsay, J. S.**, Haith, A. M., Ivry, R. B., & Kim, H. E. (2022). Interactions between sensory prediction error and task error during implicit motor learning. *PLoS Computational Biology*, 18(3), e1010005. <https://doi.org/10.1371/journal.pcbi.1010005>
- 2022 McDougale, S. D.\* , **Tsay, J. S.\***, Pitt, B., King, M., Saban, W., Taylor, J. A., & Ivry, R. B. (2022). Continuous manipulation of mental representations is compromised in cerebellar degeneration. *Brain: A Journal of Neurology*. <https://doi.org/10.1093/brain/awac072>
- 2022 **Tsay, J. S.\***, Najafi, T.\* , Schuck, L., Wang, T., & Ivry, R. B. (2022). Implicit sensorimotor adaptation is preserved in Parkinson’s disease. *Brain Communications*, 4(6), fcac303. <https://doi.org/10.1093/braincomms/fcac303>
- 2022 **Tsay, J. S.\***, Schuck, L.\* , & Ivry, R. B. (2022). Cerebellar degeneration impairs strategy discovery but not strategy recall. *Cerebellum*. <https://doi.org/10.1007/s12311-022-01500-6>
- 2021 **Tsay, J. S.**, Lee, A., Ivry, R. B., & Avraham, G. (2021). Moving outside the lab: The viability of conducting sensorimotor learning studies online. *Neurons, Behavior, Data Analysis, and Theory*. <https://doi.org/10.51628/001c.26985>
- 2021 Listman, J. B., **Tsay, J. S.**, Kim, H. E., Mackey, W. E., & Heeger, D. J. (2021). Long-term motor learning in the “wild” with high volume video game data. *Frontiers in Human Neuroscience*, 15. <https://doi.org/10.3389/fnhum.2021.777779>
- 2021 **Tsay, J. S.**, Kim, H. E., Parvin, D. E., Stover, A. R., & Ivry, R. B. (2021). Individual differences in proprioception predict the extent of implicit sensorimotor adaptation. *Journal of Neurophysiology*, 125(4), 1307–1321. <https://doi.org/10.1152/jn.00585.2020>
- 2021 **Tsay, J. S.**, Avraham, G., Kim, H. E., Parvin, D. E., Wang, Z., & Ivry, R. B. (2021). The effect of visual uncertainty on implicit motor adaptation. *Journal of Neurophysiology*, 125(1), 12–22. <https://doi.org/10.1152/jn.00493.2020>
- 2020 **Tsay, J. S.**, & Winstein, C. J. (2020). Five Features to Look for in Early-Phase Clinical Intervention Studies. *Neurorehabilitation and Neural Repair*, 1545968320975439. <https://doi.org/10.1177/1545968320975439>
- 2020 **Tsay, J. S.**, Parvin, D. E., & Ivry, R. B. (2020). Continuous reports of sensed hand position during sensorimotor adaptation. *Journal of Neurophysiology*, 124(4), 1122–1130. <https://doi.org/10.1152/jn.00242.2020>
- 2018 Danilovich, M. K., **Tsay, J. S.**, Al-Bahrani, R., Choudhary, A., & Agrawal, A. (2018). #Alzheimer’s and Dementia: Expressions of Memory Loss on Twitter. *Topics in Geriatric Rehabilitation*, 34(1), 48–53. <https://doi.org/10.1097/TGR.0000000000000173>

## INVITED TALKS

For a full list of student presentations and published proceedings, see [www.tsaylab.com/presentations](http://www.tsaylab.com/presentations)

Scheduled	Colloquium Speaker, Johns Hopkins Cerebellar Seminar Series (virtual). Cerebellar contributions to cognition: Prediction, timescale, and continuity.
2026	Colloquium Speaker, UPMC Movement Disorders Clinic (virtual). Behavioral, neuropsychological, and computational perspectives on sensorimotor learning.
2025	Colloquium Speaker, UCL Child Vision Lab (virtual). Behavioral, neuropsychological, and computational perspectives on sensorimotor learning.
2025	Colloquium Speaker, Sensorimotor Control Downunder (virtual). Behavioral, neuropsychological, and computational perspectives on sensorimotor learning.
2025	Colloquium Speaker, University of California, Riverside, Riverside, CA, USA. (virtual) Behavioral, neuropsychological, and computational perspectives on sensorimotor learning.
2025	Colloquium Speaker, Pennsylvania State University, Department of Kinesiology, University Park, PA, USA. Behavioral, neuropsychological, and computational perspectives on sensorimotor learning
2024	Plenary Speaker, UK Sensorimotor Conference, Cambridge, UK. The impact of healthy and pathological aging on implicit and explicit motor adaptation.
2024	Colloquium Speaker, Birkbeck, University of London, London, UK. Behavioral, neuropsychological, and computational perspectives on sensorimotor learning.
2024	Colloquium Speaker, Université catholique de Louvain, Brussels, Belgium. Behavioral, neuropsychological, and computational perspectives on sensorimotor learning.
2024	Plenary Speaker, Implicit Learning Conference, Marseille, France. Neural and computational mechanisms of implicit and explicit motor learning.
2024	Colloquium Speaker, Institut des Sciences du Mouvement, Aix-Marseille University, Marseille, France. Behavioral, neuropsychological, and computational perspectives on sensorimotor learning.
2024	Colloquium Speaker, Department of Engineering, University of Cambridge, Cambridge, UK. Behavioral, neuropsychological, and computational perspectives on sensorimotor learning.
2023	Colloquium Speaker, Queens' College, University of Cambridge, Cambridge, UK. Behavioral, neuropsychological, and computational perspectives on sensorimotor learning.
2023	Colloquium Speaker, School of Psychology, University of Leeds, Leeds, UK. Behavioral, neuropsychological, and computational perspectives on sensorimotor learning.
2023	Plenary Speaker, The Physiological Society, London, UK. Dissociable effects of aging on implicit and explicit motor adaptation.
2023	Panelist, Neurorehabilitation: Creating a Vision for the Future, Los Angeles, CA, USA. Translating insights from motor learning to neurorehabilitation.

2022	Plenary Speaker, NIH Outstanding Neuroscience Student Award, Bethesda, MD, USA. Behavioral, neuropsychological, and computational perspectives on sensorimotor learning.
2022	Panel Organizer and Speaker, Neural Control of Movement Conference, Dublin, Ireland. Beyond a visuo-centric view: The crucial role of proprioception in sensorimotor learning.
2022	Colloquium Speaker, KU Leuven, Leuven, Belgium. A computational re-examination of implicit sensorimotor adaptation.
2022	Colloquium Speaker, UC Santa Barbara CPCN Seminar (virtual). Bringing motor learning online.
2022	Colloquium Speaker, USC Neurorehab Seminar (virtual). Bringing motor learning online.
2021	Plenary Speaker, BeOnline Conference (virtual). Bringing motor learning online.
2020	Plenary Speaker, Advances in Motor Learning and Motor Control (virtual). Dissociable processing of task error and sensory prediction error during motor adaptation.
2020	Colloquium Speaker, University of Delaware Biomechanics Colloquium (virtual). Dissociable processing of task error and sensory prediction error during motor adaptation.
2020	Speaker, National Institutes of Health (virtual). Bringing motor learning online.
2019	Plenary Speaker, Advances in Motor Learning and Motor Control, Chicago, IL, USA. The effect of visual uncertainty on implicit motor adaptation.

## ADVISING

### Ph.D. Students (Primary Mentor)

2025-present	Indranil Nyamsuren - Carnegie Mellon University +Dietrich College Scholar
2025-present	Maoxin Xia - Carnegie Mellon University
2025-present	Anjuli Niyogi - Carnegie Mellon University +NSF GFRP +Bastian Fellowship associated with the Andrew Carnegie Brain Prize +Neural Control of Movement Scholarship +Robert J. Glushko Undergraduate Thesis Prize
2023-present	Elizabeth Cisneros - UC Berkeley +NIH R01 Diversity Supplement

### Ph.D. Students (Thesis Committee)

2025-present	Isabella Salas-Allende – Carnegie Mellon University
2025-present	Jessica Smith – Carnegie Mellon University
2025-present	Kaitlyn Dal Bon - Carnegie Mellon University
2024-2025	Andrew Byun - Harvard University
2024-present	Hana Yabuki - Carnegie Mellon University
2024-present	Katie Chase - Carnegie Mellon University
2024-present	Eloise Gacetta - Carnegie Mellon University
2024-present	Mady Davis-Troller - Carnegie Mellon University
2024-present	Erick Carranza - University of Pittsburgh
2023-present	Wei Ding - Tsinghua University
2024-present	Pam Villavicencio - Universitat de Barcelona
2025	Marissa Evans – New York University

#### Master's Students

2022-2023	Ines Sebti - University College London
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#### Post-Baccalaureate Students

2024-2025	Indranil Nyamsuren - Carnegie Mellon University
2020-2023	Carolyn Irving - UC Berkeley
2019-2020	Arohi Saxena - UC Berkeley
2019-2020	Jiaying Xu - UC Berkeley
2021-2022	Joie Tang - University of Delaware
2021-2022	Heran Yosif - University of Delaware
2022-2023	Joseph Kelly - UC Berkeley
2020-2021	Phoebe Lo - UC Berkeley
2020-2021	Steven Tan - UC Berkeley

#### Undergraduate Students (\*indicates honors thesis student)

2025-present	Sage Rohrbach - Carnegie Mellon University *NIH Neural Computation Undergraduate Research Fellowship *Psi Chi Honor's Society
2026-present	Alayna Ptak – Carnegie Mellon University
2026-present	Helen Zheng - Carnegie Mellon University
2025-present	Sophia Sun* - Carnegie Mellon University
2026-present	Helen Zhang – Carnegie Mellon University
2025	Elise Mitchell - Carnegie Mellon University
2025-2026	Noella Horo - Carnegie Mellon University
2025-present	Brayden Kohler - Carnegie Mellon University
2023-2026	Sophie Elliott - Carnegie Mellon University
2025	Owen Sapp - uPNC Program
2025	Nick Liotta - uPNC Program

2025	Kali Whitaker - SURF Program
2023-2025	Graham Haedrich - University of Waterloo
2023-2025	Anjuli Niyogi* - UC Berkeley
2023-2025	Aoran Zhang* - Carnegie Mellon University
2023-2025	Ashley Statham - Carnegie Mellon University
2022-2024	Yifei Chen* - UC Berkeley
2019-2023	Tara Najafi* - UC Berkeley
2021-2023	Mihai Cipleu* - UC Berkeley
2020-2023	Anisha Chandy* - UC Berkeley
2021-2022	Sheer Karny* - UC Berkeley
2021-2022	Lauren Schuck* - UC Berkeley
2021	Kristel Cosio - NIH Bridges to Baccalaureate program
2021	Faiven Amare - NIH Bridges to Baccalaureate program
2018-2020	Alan Lee - UC Berkeley
2018-2019	Cindy Lin - UC Berkeley
2018-2019	Noah Bussell - UC Berkeley

#### High School Students

2024-present	Sritej Padmanabhan - North Allegany High School
	+Masason Foundation Scholarship
	+Regeneron Science Talent Top 300 Scholar

### **PROFESSIONAL EXPERIENCES**

#### Teaching Activities

2024-present	Primary Instructor of Record 85-170: Foundations of Brain and Behavior Department of Psychology, Carnegie Mellon University
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#### Service Activities

2026-present	Early Career Reviewer Program, National Institutes of Health
2025-present	Organizer, Cognitive & Developmental Seminar Series, Carnegie Mellon University
2024-present	uPNC Summer Program for Undergraduate Researchers, Carnegie Mellon University
2024-present	Judge for Meeting of the Minds Undergraduate Research Symposium, Carnegie Mellon University
2024-present	Faculty Mentor for Summer Program for Undergraduate Researchers (SPUR), Carnegie Mellon University
2025	Ad hoc reviewer for CNBC's Career Development Award
2023	Student representative for the Faculty Graduate Student Committee, UC Berkeley
2018-2022	Science Mentor for Frontiers for Young Minds, UC Berkeley
2021	Science Mentor for the NIH T34 Bridges to Baccalaureate Program, UC Berkeley
2020	Student Representative for the Climate and Equity Committee, UC Berkeley

#### Editorial Activities

2021-present	Journal of Neurophysiology, Editorial Board Member
2024-present	PLoS Computational Biology, Academic Editor
2024	PLoS Biology, Guest Academic Editor
2024	eLife, Guest Reviewing Editor

#### Ad Hoc Journal Reviewing

Annals of the New York Academy of Sciences; Cerebral Cortex; Consciousness and Cognition; Current Biology; eLife; eNeuro; European Journal of Neuroscience; Experimental Brain Research; Frontiers of Aging Neuroscience; Frontiers of Human Neuroscience; Frontiers of Rehabilitation; Journal of Cognitive Neuroscience; Journal of Neurophysiology; Journal of Neuroscience; Journal of Psychology: General; Journal of Psychology: Human Perception and Performance; Journal of Vision; Motor Learning and Motor Control Conference; Nature Communications; Neurorehabilitation and Neural Repair; Neuroscience; NPJ Science of Learning; Open Psychology; PLoS Biology; PLoS Computational Biology; Proceedings to the Royal Society: B; Proceedings of the National Academy of Sciences; Scientific Reports; Transactions on Neural Systems & Rehabilitation Engineering.