

Rice University
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EMPLOYMENT

Rice University Assistant Professor Department of Psychological Sciences	July 2023 – Present
University of California San Diego (UCSD) Postdoctoral Fellow Department of Psychology & Institute for Neural Computation Advisor: John Serences	August 2018 – June 2023

EDUCATION

University of Chicago Transferred into Ph.D. program Fall 2015 Area: Cognition, Advisor: Edward Vogel	Doctor of Philosophy, June 2018
University of Oregon Admitted to Ph.D. program Fall 2012 Area: Cognitive Neuroscience, Advisor: Edward Vogel	Master of Science, April 2014
University of Notre Dame (ND) Major: Biological Sciences Minors: Art History; Glynn Family Honors Program Thesis Advisor: Bradley Gibson	Bachelor of Science, May 2012 Honors: <i>cum laude</i>

HONORS

Research Fairy Award, Women of Working Memory (WomWoM)	2024
Fellow, Psychonomic Society	2023
Glushko Dissertation Prize from the Cognitive Science Society (1 of 5 recipients)	2019
Starkey Duncan Award for Excellence in Undergraduate Teaching (U. Chicago)	2016
U.S. Presidential Scholar (1 of 2 from state)	2008

FUNDING

<u>Research Funding</u>	
<u>NSF Social, Behavioral, & Economic Sciences (SBE) Postdoctoral Research Fellowship</u>	2021-2023
Award #2104630, <i>Probing interactions of working and long-term memory</i>	
Role: Principal Investigator; Co-PI: John Serences (Mentor)	
Budget: \$132,250	
<u>NEI Postdoctoral T32 Training Fellowship, Salk Institute for Biological Studies (UCSD)</u>	2020-2021
Award T32-EY020503, <i>Training Program in Visual Neuroscience</i>	
Principal Investigator: Thomas D. Albright	
Role: Postdoctoral Trainee	
<u>NIMH Postdoctoral T32 Training Fellowship, Institute for Neural Computation (UCSD)</u>	2018-2020

Award T32-MH020002, *Training Program in Cognitive Neuroscience*
 Principal Investigator: Terrence J. Sejnowski
 Role: Postdoctoral Trainee

Travel Funding and Stipends

The Vision Sciences Society National Eye Institute Postdoctoral Travel Grant	2019
The Vision Sciences Society Elsevier/Vision Research Travel Award (1 of 20 recipients)	2018
Graduate Council Travel Fund (U. Chicago)	2017
The Psychonomic Society Graduate Travel Award (1 of 15 recipients)	2016
Graduate Education Committee Conference Travel Grant (U. Oregon)	2013, 2014
Undergraduate Research Opportunity Program (UROP) Conference Travel Grant (ND)	2011
UROP Summer Funding: Joint College of Arts & Letters and College of Science Grant (ND)	2011
Alumni Internship Assistance Program, awarded for summer undergraduate research (ND)	2010
DeCenzo Grant for the Study of Art History in Italy (ND)	2010

Funding Applications (Under Review)

Office of Naval Research, Young Investigator Program	2026-2028
Title: <i>Building self-awareness of cognitive failures to optimize human performance</i>	
Proposed budget: \$750,000	
National Science Foundation, Faculty Early Career Development Program (CAREER)	2026-2030
Title: <i>Disengaging the brain from distractions</i>	
Proposed budget: \$659,257	

PUBLICATIONS (H-index 21, 1872 citations, 7/2025)

underlined names denote students/trainees under my supervision; asterisks (*) denote equal contributions

Data from published articles are available on Open Science Framework: <https://osf.io/2ktjd>

Open science impact: 9+ journal articles/pre-prints and 6+ conference presentations (on which I am not an author) have resulted in whole or in part from my open data (i.e., re-analysis of open data in the paper). An additional 2 collaborative publications (on which I am an author, below) have stemmed from sharing open data.

1. **Kozlova, O., Adam, K.C.S.,** & Fukuda, K. (in press). Prospective and retrospective awareness of moment-to-moment fluctuations in visual working memory performance. *Journal of Experimental Psychology: General*. Pre-print: <https://osf.io/nbfr>
2. **Adam, K.C.S.,** Klatt, L.I., Miller, J.A., Rösner, M., Fukuda, K., & Kiyonaga, A. (2025). Beyond routine maintenance: Current trends in working memory research. *Journal of Cognitive Neuroscience*. [10.1162/jocn_a_02298](https://doi.org/10.1162/jocn_a_02298)
3. **Adam, K.C.S., Yang, Z.,** & Serences, J.T. (2024). First encounters: Estimating the initial magnitude of attentional capture. *Visual Cognition*. [10.1080/13506285.2024.2315806](https://doi.org/10.1080/13506285.2024.2315806)
4. **Adam, K.C.S.,** Zhao, C., & Vogel, E.K. (2024). Behavioral signatures of the rapid recruitment of long-term memory to overcome working memory capacity limits. *Memory & Cognition*. [10.3758/s13421-024-01566-z](https://doi.org/10.3758/s13421-024-01566-z)
5. Ngiam, W.X.Q., Foster, J.J., **Adam, K.C.S.,** & Awh, E. (2023). Distinguishing guesses from fuzzy memories: Further evidence for item limits in visual working memory, *Attention, Perception & Psychophysics*, 85(5), 1695-1709. [10.3758/s13414-022-02631-y](https://doi.org/10.3758/s13414-022-02631-y)
6. **Adam, K.C.S.,** Rademaker, R.L., & Serences, J.T. (2022). Dynamics are the only constant in working memory. *Journal of Cognitive Neuroscience*, 35(1), 24-26. Special Focus issue on the work of Mark Stokes. [10.1162/jocn_a_01941](https://doi.org/10.1162/jocn_a_01941)

7. Thyer, W., **Adam, K.C.S.**, Diaz, G.K., Velázquez Sánchez, I.N., Vogel, E.K. & Awh, E. (2022). Storage in visual working memory recruits a content-independent pointer system. *Psychological Science*, 33(10), 1680-1694. [10.1177/09567976221090923](https://doi.org/10.1177/09567976221090923)
8. **Adam, K.C.S.**, Rademaker, R.L. & Serences, J.T. (2022). Evidence for, and challenges to, sensory recruitment models of visual working memory. In T.F. Brady & W.A. Bainbridge (Eds.), *Visual Memory* (pp. 5-25). Routledge. [10.4324/9781003158134-2](https://doi.org/10.4324/9781003158134-2)
9. **Adam, K.C.S.** & Serences, J.T. (2021). History modulates early sensory processing of salient distractors. *Journal of Neuroscience*, 41(38), 8007-8022. [10.1523/JNEUROSCI.3099-20.2021](https://doi.org/10.1523/JNEUROSCI.3099-20.2021)
10. **Adam, K.C.S.**, Patel, T., Rangan, N. & Serences, J.T. (2021). Classic visual search effects in an additional singleton task: An open dataset. *Journal of Cognition*, 4(1), 34. [10.5334/joc.182](https://doi.org/10.5334/joc.182)
11. Ngiam, W.X.Q., **Adam, K.C.S.**, Quirk, C., Vogel, E.K. & Awh, E. (2021). Estimating the statistical power to detect set size effects in contralateral delay activity. *Psychophysiology*, e13791. [10.1111/psyp.13791](https://doi.org/10.1111/psyp.13791)
12. **Adam, K.C.S.**, Chang, L., Rangan, N., & Serences, J.T. (2021). Steady-state visually evoked potentials and feature-based attention: Pre-registered null results and a focused review of methodological considerations. *Journal of Cognitive Neuroscience*, 33(4), 695-724. [10.1162/jocn_a_01665](https://doi.org/10.1162/jocn_a_01665)
13. **Adam, K.C.S.**, Vogel, E.K. & Awh, E. (2020). Multivariate analysis reveals a generalizable human electrophysiological signature of working memory load. *Psychophysiology*, 57(12), e13691. [10.1111/psyp.13691](https://doi.org/10.1111/psyp.13691)
14. Quirk, C., **Adam, K.C.S.** & Vogel, E.K. (2020). No evidence for an object working memory capacity benefit with extended viewing time. *eNeuro*, 7(5), ENEURO.0150-20.2020. [10.1523/ENEURO.0150-20.2020](https://doi.org/10.1523/ENEURO.0150-20.2020)
15. **Adam, K.C.S.**, Doss, M.K., Pabon, E., Vogel, E.K., & de Wit, H. (2020). Δ9-Tetrahydrocannabinol impairs visual working memory performance: A randomized crossover trial. *Neuropsychopharmacology*, 45, 1807-1816. [10.1038/s41386-020-0690-3](https://doi.org/10.1038/s41386-020-0690-3)
16. Barbosa, J., Stein, H., Martinez, R., Galan, A., **Adam, K.C.S.**, Li, S., Valls-Solé, J., Constantinidis, C., & Compte, A. (2020). The interplay between persistent activity and activity-silent dynamics in PFC underlies serial dependence in working memory. *Nature Neuroscience*, 23, 1016-1024. [10.1038/s41593-020-0644-4](https://doi.org/10.1038/s41593-020-0644-4)
17. Kardan, O., **Adam, K.C.S.**, Mance, I., Churchill, N.W., Vogel, E.K., & Berman, M.G. (2020). Distinguishing cognitive effort and working memory load using scale-invariance and alpha suppression in EEG. *NeuroImage*, 211(1), 116622. [10.1016/j.neuroimage.2020.116622](https://doi.org/10.1016/j.neuroimage.2020.116622)
18. **Adam, K.C.S.** & Serences, J.T. (2019). Working memory: flexible but finite. *Neuron*, 103(2), 184-185. [10.1016/j.neuron.2019.06.025](https://doi.org/10.1016/j.neuron.2019.06.025)
Invited commentary on Bouchacourt & Buschman (2019) *Neuron*.
19. **Adam, K.C.S.*** & deBettencourt, M.T.* (2019). Fluctuations of attention and working memory. *Journal of Cognition*, 2(1), 33. [10.5334/joc.70](https://doi.org/10.5334/joc.70)
Invited commentary on Oberauer (2019) *J Cognition*.
20. Sutterer, D.W.*, Foster, J.J.* , **Adam, K.C.S.**, Vogel, E.K., & Awh, E. (2019). Item-specific delay activity demonstrates concurrent storage of multiple items in working memory. *PLOS Biology*, 17(4), e3000239. [10.1371/journal.pbio.3000239](https://doi.org/10.1371/journal.pbio.3000239)
21. Hakim, N., **Adam, K.C.S.**, Gunseli, E., Awh, E., & Vogel, E.K. (2019). Dissecting the neural focus of attention reveals distinct processes for spatial attention and object-based storage in visual working memory. *Psychological Science*, 30(4), 526-540. [10.1177/0956797619830384](https://doi.org/10.1177/0956797619830384)

22. **Adam, K.C.S.** & Vogel, E.K. (2018). Improvements to visual working memory performance with practice and feedback. *PLOS ONE*, 13(8), e0203279. [10.1371/journal.pone.0203279](https://doi.org/10.1371/journal.pone.0203279)
23. Sprague, T.C., **Adam, K.C.S.***, Foster, J.J.*., Rahmati, M.*., Sutterer, D.W.*., & Vo, V.A.* (2018). Inverted encoding models assay population-level stimulus representations, not single-unit neural tuning. *eNeuro*, ENEUR.0098-18.2018. [10.1523/ENEURO.0098-18.2018](https://doi.org/10.1523/ENEURO.0098-18.2018)
Commentary on Liu, Cable, & Gardner (2018) *J Neuro*.
24. **Adam, K.C.S.**, Robison, M.K., & Vogel, E.K. (2018). Contralateral delay activity tracks fluctuations in working memory performance. *Journal of Cognitive Neuroscience*, 30(9), 1229-1240. [10.1162/jocn_a_01233](https://doi.org/10.1162/jocn_a_01233)
25. Xu, Z.*., **Adam, K.C.S.***, & Fang, X., & Vogel, E.K. (2018). The reliability and stability of visual working memory capacity. *Behavior Research Methods*, 50(2), 576-588. [10.3758/s13428-017-0886-6](https://doi.org/10.3758/s13428-017-0886-6)
26. **Adam, K.C.S.** Vogel, E.K., & Awh, E. (2017). Clear evidence for item limits in visual working memory. *Cognitive Psychology*, 97, 79-97. [10.1016/j.cogpsych.2017.07.001](https://doi.org/10.1016/j.cogpsych.2017.07.001)
27. **Adam, K.C.S.** & Vogel, E.K. (2017). Confident failures: Lapses of working memory reveal a metacognitive blind spot. *Attention, Perception & Psychophysics*, 79(5), 1506-1523. [10.3758/s13414-017-1331-8](https://doi.org/10.3758/s13414-017-1331-8)
28. **Adam, K.C.S.** & Vogel, E.K. (2016). Reducing failures of working memory with performance feedback. *Psychonomic Bulletin & Review*, 23(5), 1520-1527. [10.3758/s13423-016-1019-4](https://doi.org/10.3758/s13423-016-1019-4)
29. **Adam, K.C.S.** & Vogel, E.K. (2016). Tuning in by tuning out distractions. *Proceedings of the National Academy of Sciences*, 113(13), 3422-3423. [10.1073/pnas.1602037113](https://doi.org/10.1073/pnas.1602037113)
Invited commentary on Gaspar et al. (2016) PNAS.
30. **Adam, K.C.S.***, Mance, I.*., Fukuda, K., & Vogel, E. K. (2015). The contribution of attentional lapses to individual differences in visual working memory capacity. *Journal of Cognitive Neuroscience*, 27(8), 1601-1616. [10.1162/jocn_a_00811](https://doi.org/10.1162/jocn_a_00811)
31. Foster, J.J.* & **Adam, K.C.S.*** (2014). Is feature-based attention spatially global during visual search? *Journal of Neuroscience*, 34(26), 8862-8864. [10.1523/JNEUROSCI.1616-14.2014](https://doi.org/10.1523/JNEUROSCI.1616-14.2014)
Commentary on Painter et al. (2014) *J Neuro*.

PRE-PRINTS

1. Choo, Y., **Adam, K.C.S.**, & Wessel, J.R. (under review) Exploring neural mechanisms underlying error-related impairments in active working memory suggests an adaptive shielding of contents during cognitive control. *bioRxiv*. <https://doi.org/10.1101/2025.07.19.665355>
2. van Engen, Q., Chau, G., Smith, A., **Adam, K.C.S.**, Donoghue, T., & Voytek, B. (under review) Dissociating contributions of theta and alpha oscillations from aperiodic neural activity in human visual working memory. *bioRxiv*. <https://doi.org/10.1101/2024.12.16.628786>

INVITED TALKS

1. *American Psychological Association*, Division 3 Invited Speaker, Denver, CO, 8 August 2025.
2. *Vision Sciences Society*, Open Science and Publishing Workshop (Speaker and Panelist), St Pete Beach, FL, 17 May 2025.
3. *University of Maryland College Park*, Neuroscience and Cognitive Science Seminar, College Park, MD, 27 September 2024.
4. *International Conference on Working Memory*, Leeds, United Kingdom, 25 June 2024.

5. *University of Missouri*, Cognition and Neuroscience Group, Columbia, MO, 19 April 2024.
6. *University of Texas at Austin*, Cognition, Brain & Behavior seminar, Austin, TX, 13 October 2023.
7. *Baylor College of Medicine*, Seminar Series Neuroscience Journal Club, Houston, TX, 3 October 2023.
8. *Society for Psychophysiological Research*, “Faces of the Future” flash talk series, Vancouver, BC, Canada, 30 September 2022.
9. *Leibniz Research Centre for Working Environment and Human Factors*, Department of Ergonomics Colloquium Series, Dortmund, Germany. Talk given online, 25 January 2022.
10. *Psychonomic Society Leading Edge Workshop*, Advancing cognition through adversarial collaborations, Edinburgh, Scotland. Talk given online, 14 September 2021.
11. *University of Iowa*, Department of Psychology Vision Group, Iowa City, IA. Talk given online, 30 April 2021.
12. *University of Nevada Reno*, Cognitive & Brain Sciences Early Career Seminar Series, Reno, NV. Talk given online, 25 March 2021.
13. *Purdue University*, Cognitive Colloquium, West Lafayette, IN. Talk given online, 24 March 2021.
14. *Vrije Universiteit, Amsterdam*, Department of Psychology Colloquium Series, the Netherlands. Talk given online, 9 October 2020.
15. *University of California Santa Barbara*, Cognition Group, Santa Barbara, CA, 11 October 2019.
16. *Cognitive Science Society*, Glushko dissertation prize talk, Montreal, Canada, 25 July 2019.
17. *Royal Netherlands Academy of Arts and Sciences (KNAW)*, New perspectives on visual working memory colloquium, Amsterdam, the Netherlands, 27 June 2019.
18. *University of Notre Dame*, Cognition, Brain, and Behavior group, Notre Dame, IN, 14 November 2016.

CONFERENCE TALKS

1. Musfeld, P., Ngiam, W.X.Q., **Adam, K.C.S.**, Kozlova, O., Bulatova, O., Fukuda, K. (2025) How long-term learning alters visual working memory representations: evidence from EEG. *25th Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL
2. **Adam, K.C.S.**, Zhao, C., & Vogel, E.K. Behavioral signatures of the rapid collaboration of working- and long-term memory. *65th Annual Meeting of the Psychonomic Society*, New York, NY 23 November 2024.
3. Kozlova, O., & **Adam, K.C.S.** Improving visual working memory performance through goal setting. *32nd Annual Object Perception, Attention, & Memory (OPAM) Meeting*, New York, NY 21 November 2024.
4. **Adam, K.C.S.** & Serences, J.T. First encounters: Estimating the initial magnitude of attentional capture. *64th Annual Meeting of the Psychonomic Society*, San Francisco, CA, 17 November 2023.
5. **Adam, K.C.S.**, Awh, E.A., & Serences, J.T. Univariate and multivariate load-dependent signals in human cortex. *52nd Annual Meeting of the Society for Neuroscience*, San Diego, CA, 13 November 2022.
6. Ngiam, W.X.Q., Foster, J.J., **Adam, K.C.S.**, & Awh, E. A signature of guessing supports an item limit in visual working memory. *3rd Annual Working Memory Symposium*. Held online, 23 June 2022.
7. Ngiam, W.X.Q., **Adam, K.C.S.**, Quirk, C., Vogel, E.K., & Awh, E. Estimating the statistical power to detect set-size effects in the contralateral delay activity. *28th Annual Object Perception, Attention, & Memory (OPAM) Meeting*. Held online, 19 November 2020.

8. **Adam, K.C.S.**, Doss, M.K., Pabon, E., Vogel, E.K., & de Wit, H. Δ9-Tetrahydrocannabinol impairs visual working memory performance. *1st Annual Working Memory Symposium 2020*. Held online, 3 June 2020.
9. Ngiam, W.X.Q., **Adam, K.C.S.**, Quirk, C., Vogel, E.K., & Awh, E. Power for detecting the presence of set size differences in the contralateral delay activity. *1st Annual Working Memory Symposium 2020*. Held online, 3 June 2020.
10. Quirk, C., **Adam, K.C.S.**, & Vogel, E.K. Pre-existing spatial biases influence the encoding of information in visual working memory. *1st Annual Working Memory Symposium 2020*. Held online, 4 June 2020.
11. Kardan, O., **Adam, K.C.S.**, Mance, I., Churchill, N.W., Vogel, E.K., & Berman, M.G. Distinguishing cognitive effort and working memory load. *49th Annual Meeting of the Society for Neuroscience*, Chicago, IL, 22 October, 2019.
12. Quirk, C., **Adam, K.C.S.**, & Vogel, E.K. Preexisting spatial biases influence the encoding of information into visual working memory. *18th Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL, 22 March 2018.
13. **Adam, K.C.S.**, Vogel, E.K., & Awh, E. Decoding the limits of simultaneous storage in working memory. *18th Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL, 20 March 2018.
14. Awh, E., Foster, J.J., Sutterer, D., **Adam, K.C.S.** & Vogel, E.K. Spatially selective alpha-band activity degrades with increasing working memory load. *58th Annual Meeting of the Psychonomic Society*, Vancouver, Canada, 9 November 2017.
15. **Adam, K.C.S.** & Vogel, E.K. Attentional lapses drive individual differences in working memory capacity. *24th Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA, 28 March 2017.
16. Awh, E., **Adam, K.C.S.**, & Vogel, E.K. Clear evidence for item limits in visual working memory. *57th Annual Meeting of the Psychonomic Society*, Boston, MA, 19 November 2016.
17. Vogel, E.K., & **Adam, K.C.S.** Lapses in attentional control drive individual differences in working memory capacity. *56th Annual Meeting of the Psychonomic Society*, Chicago, IL, 20 November 2015.
18. **Adam, K.C.S.**, & Vogel, E.K. Pretrial neural indicators of lapses in working memory performance. *44th Annual Meeting of the Society for Neuroscience*, Washington, D.C., 16 November 2014.
19. Gibson, B.S., **Adam, K.C.S.**, & Davis G. Symbolic control of spatial attention: Knowing direction is better than knowing distance. *53rd Annual Meeting of the Psychonomic Society*, Seattle, WA, 18 November 2012.

RECENT POSTERS Full list of 30+ posters available upon request.

1. Kozlova, O., & **Adam, K.C.S.** (2025) Goal-setting modulates visual working memory performance through alpha power suppression and effort. *25th Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL.
2. Wennberg, J.W., **Adam, K.C.S.**, & Serences, J.T. (2025) Distracted but not defeated: Voxel population codes flexibly transform to support high-fidelity working memory representations. *25th Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL.
3. Kozlova, O., & **Adam, K.C.S.** (2024) Goal-setting modulates visual working memory performance through frontal theta power and alpha power suppression. *UT Health Houston Annual Neuroscience Poster Session*. Houston, TX.
4. Musfeld, P., Ngiam, W., **Adam, K.C.S.**, Kozlova, O., Bulatova, O., & Fukuda, K. (2024) How do we represent prior knowledge in working memory? Assessing the electrophysiological consequences of long-

term learning on visual working memory representations. *65th Annual Meeting of the Psychonomic Society*, New York, NY.

5. **Acosta, A., & Adam, K.C.S.** (2024) Spatially localized sounds benefit target detection without increasing distractor costs in visual search. *The Association for Research in Memory, Attention, Decision-making, Imaging, Language, Learning, and Organization (ARMADILLO)*. College Station, TX.
6. Wennberg, J., **Adam, K.C.S.**, & Serences, J.T. (2024) Mnemonic maneuvers: Voxel population codes in visual cortex multi-task to support distractor resistance in working memory. *54th Annual Meeting of the Society for Neuroscience*, Chicago, IL.
7. Choo, Y., **Adam, K.C.S.**, & Wessel, J. (2024) Action errors lead to working memory suppression: Bayesian hierarchical mixture modeling and the contralateral delay activity. *54th Annual Meeting of the Society for Neuroscience*, Chicago, IL.
8. **Kozlova, O., & Adam, K.C.S.** (2024) Reducing failures of working memory with tailored feedback. *24th Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL.
9. **Kozlova, O., Adam, K.C.S.**, & Fukuda, K. (2023) Swap errors, not guesses, better predict individual differences in visual working memory capacity estimates. *31st Annual Object Perception, Attention, & Memory (OPAM) Meeting*, San Francisco, CA.
 - Ph.D. student Olga Kozlova received the “best poster” award at OPAM.
10. **Adam, K.C.S.** & Serences, J.T. (2023) Univariate and multivariate load-dependent signals in human cortex. *23rd Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL.
11. Kular, H., **Adam, K.C.S.**, & Serences, J.T. (2023) Working memory is robust to distractors but not sensory uncertainty. *23rd Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL.
12. **Adam, K.C.S.** & Serences, J.T. (2022) Interactions of sustained attention and visual search. *22nd Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL.
13. Wennberg, J.W., **Adam, K.C.S.** & Serences, J.T. (2022) Inter-item interference in visual working memory occurs jointly in feature-specific and feature-general codes. *22nd Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL.

TEACHING

Instructor (Rice University)

Memory (Undergraduate, PSYC 308, 1x yearly)	Fall 2024 – Present
Visual Cognition (Undergraduate, PSYC 311, 1x yearly)	Spring 2024 - Present
Foundations of Cognition (Graduate, PSYC 520)	Spring 2025
Advanced Cog. Neuro: Attention and Perception (Graduate, PSYC 575)	Fall 2023

Guest Lectures

“Working Memory” (Rice University, PSYC 520)	2024
“Contralateral Delay Activity: Measurement & Applications” (University of Groningen)	2020; 2021
“Perception” (University of Chicago, PSYC 20400)	2017
“Measuring Change Over Time” (University of Chicago, PSYC 20200)	2016

Pedagogical Training

Effective STEM Mentoring Approaches and Strategies (1 hour seminar, Dr. Joi-Lynn Mondisa)	2024
Mentorship for Inclusive Excellence (1 hour seminar, Dr. Angela Byars-Winston)	2020
Pathways to Scientific Teaching (UCSD, 9-week course, Dr. Diane Ebert-May)	2019

Teaching Assistant

Cognitive Psychology (U. Chicago, PSYC 20400)	2017
Sensation and Perception (U. Chicago, PSYC 20700)	2016

EDITING

Consulting Editor, *Journal of Cognitive Neuroscience*, January 2025 – Present.
Consulting Editor, *Attention, Perception & Psychophysics*, April 2021 – Present.

REVIEWING – GRANTSPanelist

National Science Foundation (NSF), Perception, Action & Cognition program

Ad hoc reviewer

Austrian Science Fund (FWF)

Dutch Research Council (NWO)

European Research Council (ERC), Panel SH4

National Science Foundation (NSF), Cognitive Neuroscience program

National Science Foundation (NSF), Perception, Action & Cognition program

Natural Sciences and Engineering Council of Canada (NSERC), Biological Systems & Functions

Swiss National Science Foundation (SNF)

REVIEWING – JOURNALS

Acta Psychologica

Journal of Neurophysiology

Attention, Perception, & Psychophysics

Journal of Neuroscience

Behavior Research Methods

Journal of Vision

Biological Psychology

Memory

Brain Research

Memory & Cognition

Cerebral Cortex

Nature Neuroscience

Cognition

Nature Reviews Neuroscience

Cognitive, Affective & Behavioral Neuroscience

NeuroImage

Cognitive Psychology

Neuron

Collabra: Psychology

Neuropsychologia

Consciousness and Cognition

Open Mind

Current Biology

PLOS Biology

eNeuro

PLOS ONE

Experimental Psychology

Proceedings of the National Academy of Sciences

Human Brain Mapping

Psychiatry Research

International Journal of Human-Computer

Psychological Bulletin

Interaction

Psychological Research

Journal of Applied Research in Memory and

Psychological Review

Cognition

Psychological Science

Journal of Cognition

Psychonomic Bulletin & Review

Journal of Cognitive Neuroscience

Psychoneuroendocrinology

Journal of Cognitive Psychology

Psychopharmacology

Journal of Experimental Psychology: General

Psychophysiology

Journal of Experimental Psychology: Human

Quarterly Journal of Experimental Psychology

Perception and Performance

Science Advances

Journal of Experimental Psychology: Learning,

Scientific Data

Memory, and Cognition

Scientific Reports

Journal of Memory and Language

Visual Cognition

MENTORSHIPDoctoral Students

Jin Shi, 2025 – Present

Olga Kozlova, 2023 – Present

Awards: *OPAM Best Poster Award; Rice Social Sciences Research Institute (SSRI) Pre-Dissertation research grant*

Co-Mentored Doctoral Students

Fernanda Morales-Calva, Co-Mentor with Dr. Stephanie Leal, 2024 – Present

Kayla Clark, Co-Mentor with Dr. Stephanie Leal, 2024 – Present

Undergraduate Students and Post-Baccalaureate Researchers

¹Supervised honors thesis/capstone paper ²Independent research project ³Paper co-author

Juliana Pinho Muller, Rice, 2025-Present¹

Rohini Kompella, Rice, 2024-Present

Arcadia Hinton-Cooley, Rice, 2024-Present

Abigail (Abby) Proctor, Rice SURF, 2025²

Raya Cruse, Rice NSF REU, 2025²

Adriana Padilla, Rice, 2024-2025

Arianna (Anna) Acosta, Rice NSF REU, 2024²

Titiksha Patel, UCSD, 2019 – 2022³

Nicole Rangan, UCSD, 2019 – 2022³

Shruti Nishith, UCSD, 2021

Emma Sargsian, UCSD, 2020 – 2021¹

Zi Yang, UCSD, 2019 – 2020^{2,3}

Mengfan Tian, UCSD, 2019 – 2020

Lillian Chang, UCSD, 2018 – 2019³

Matteo D'Amico, UCSD, 2018 – 2019¹

Rebecca Kuang, U. Chicago, 2017 – 2018^{1,2}

Murtala (Murrie) Affini, U. Chicago, 2016 – 2017²

Emily Talbot, U. Oregon, 2014 – 2015

William (Will) McGuirk, U. Oregon, 2013 – 2015

Ph.D. Thesis Committees *Committee Chair

Fernanda Morales-Calva*, Department of Psychological Sciences, Rice University

2025 – Present

Kayla Clark*, Department of Psychological Sciences, Rice University

2025 – Present

Yu Lu, Department of Psychological Sciences, Rice University

2024 – Present

Katia Kazhuro, Department of Psychological Sciences, Rice University

2025 – 2025

Harun Yörük, Department of Psychology, University of Houston

2023 – 2024

Master's Thesis Committees *Committee Chair

Olga Kozlova*, Department of Psychological Sciences, Rice University

2025 – Present

Fernanda Morales-Calva, Department of Psychological Sciences, Rice University

2022 – 2023

SERVICE

Public talks

“The paradox of vision”, Artists-in-dialogue series, Moody Center for the Arts (Rice)

10/2024

External service

Co-organizer for “Working Memory Social” conference events (SfN, VSS)

11/2022 – Present

Session moderator, Working Memory Symposium

Annually: 6/2021 – Present

Abstract review, JoCN Travel Fellowship

8/2025

Co-organizer for the Working Memory Symposium

5/2021 – 8/2024

Talk session chair, Psychonomic Society Meeting

11/2023, 11/2024

Department and university service

Faculty Sponsor, Cognitive, Health & Affective Tea (CHAT) Seminar (Rice)

6/2025 – Present

Neuroscience Undergraduate Curriculum Committee (Rice)

4/2024 – Present

Faculty Search Committee (Senior Cognitive & Affective Neuroscience, Rice)

7/2024 – 6/2025

Faculty Search Committee (Junior Cognitive & Affective Neuroscience, Rice)

7/2024 – 5/2025

Department of Psychological Sciences Graduate Student Awards Committee (Rice)

2/2024 – 5/2024

Department of Psychological Sciences Rankings Committee (Rice)

1/2024 – 6/2025

Department of Psychology Climate/Diversity Committee, Postdoc Member (UCSD)

11/2020 – 4/2023

Panel discussion, “Living with grace and integrity in science” (UCSD)
Co-organizer for Cognition Workshop meetings (U. Chicago)
Travel and Research Award Committee (U. Chicago)

9/2019

9/2017 – 6/2018

10/2015 – 6/2018

PROFESSIONAL AFFILIATIONS

Member

American Psychological Association
Association for Psychological Science
Cognitive Neuroscience Society
Society for Neuroscience
Vision Sciences Society

Fellow

The Psychonomic Society