

Arielle S. Keller, PhD, MS

Assistant Professor of Cognitive Neuroscience · Department of Psychological Sciences, University of Connecticut

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Summary of Research Interests

My interdisciplinary research program aims to understand the diverse ways our brains allocate attention by integrating ideas and perspectives across cognitive, computational, and developmental neuroscience. I leverage cutting-edge analytic tools in both large-scale open-source datasets and deeply phenotyped samples, investigating neurophysiological signatures of visual and auditory attention and characterizing differences in attention in depression and anxiety. Motivated by findings that childhood experiences can shape neurocognitive functioning, I currently investigate how childhood environments and experiences shape functional brain network development and cognitive abilities.

Academic Appointments & Education

University of Connecticut

ASSISTANT PROFESSOR OF COGNITIVE NEUROSCIENCE

CT Institute for the Brain and Cognitive Sciences

Director, Applied Cognition & Personalized Neuroscience Laboratory

Department of Psychological Sciences

Storrs, CT

Aug 2024 - present

University of Pennsylvania

T32 POST-DOCTORAL FELLOW, DEPARTMENT OF PSYCHIATRY

- Part-Time Lecturer, Undergraduate Neuroscience Program
- Lifespan Informatics & Neuroimaging Center
- Advisor: Dr. Theodore Satterthwaite

Philadelphia, PA

Sep 2021 - Aug 2024

Stanford University

PHD NEUROSCIENCES

• Department of Psychiatry and Behavioral Sciences

- Advisor: Dr. Leanne Williams
- Dissertation: *“Attention impairment in depression and anxiety”*

Stanford, CA

Sep 2016 - Sep 2021

Brandeis University

MS NEUROSCIENCE

- Department of Psychology
- Advisor: Dr. Robert Sekuler

• Thesis: *“Characterizing the roles of alpha and theta oscillations in multisensory attention”*

Waltham, MA

Sep 2012 - May 2016

Brandeis University

BS NEUROSCIENCE, PSYCHOLOGY

- Summa Cum Laude, GPA: 3.95
- Minor: English; Neuroscience Thesis with Highest Honors

Waltham, MA

Sep 2012 - May 2016

Awards, Fellowships & Grants

2025-2027	NARSAD Young Investigator Award , Brain & Behavior Research Foundation	\$ 70,000.00
2025-2026	IBACS Seed Grant , Institute for the Brain and Cognitive Sciences (IBACS)	\$ 13,247.00
2024-2025	NIH Loan Repayment Program Renewal Award , National Institute of Mental Health	\$ 8,500.00
2024	Top 25 Social Science & Human Behavior Articles of 2023 , Nature Communications	
2023-2024	NIH T32 Neurodevelopment and Psychosis , National Institute of Mental Health	\$ 56,880.00
2022-2024	NIH Loan Repayment Program Award , National Institute of Mental Health	\$ 8,500.00
2023	ACNP Travel Award , American College of Neuropsychopharmacology	
2023	Career Development Institute for Psychiatry , University of Pittsburgh	

2022	Flux Congress Travel Award , Flux Society	\$ 750.00
2021-2022	NIH T32 Neuroengineering and Medicine Post-Doctoral Fellowship , NINDS	\$ 53,760.00
2021	Stanford Community Impact Award , Stanford Alumni Association	
2020	SOBP Pre-Doctoral Travel Award , Society of Biological Psychiatry	\$ 2,000.00
2018-2019	Center for Neurological Imaging Innovation Grant , Stanford University	\$ 2,000.00
2017-2021	National Defense Science and Engineering Graduate Fellowship , Department of Defense	\$ 153,600.00
2017-2021	Mind, Brain, Computation and Technology Fellowship , Stanford University	\$ 7,500.00
2016	Reis and Sowul Family Prize in Neuroscience , Brandeis University	\$ 500.00
2016	Ricardo Morant Award in Psychology , Brandeis University	\$ 250.00
2016	Phi Beta Kappa , Brandeis University	
2015	Psi Chi: International Honor Society in Psychology , Brandeis University	
2016, 2017	Honorable Mention , NSF Graduate Research Fellowship	
2015	Goldwater Scholarship , Goldwater Scholarship & Excellence in Education Foundation	\$ 7,500.00
2015	Sustaining the Mind Scholarship , Brandeis University	
2014-2016	NIH T90 Computational Neuroscience Traineeship , Brandeis University	\$ 22,344.00
2014	Conference Travel Award , Brandeis University Office of the Provost	\$ 250.00
2012-2016	Dean's List , Brandeis University	

Manuscripts In Revision/Under Review _____ * co-author; + mentored trainee

Keller, A.S., Shetty, A.⁺, Barzilay, R., Calkins, M. E., Chong, Y.-S., Fair, D. A., Gluckman, P., Gur, R. E., Gur, R. C., Mackey, A. P., Meaney, M. J., Moore, L. A., Moore, T. M., Satterthwaite, T. D., Tan, A. P., Tervo-Clemmens, B. & Larsen, B. (2024). School's out for the summer: cognition varies across the calendar year in multiple large-scale datasets. *PsyArXiv*.

Keller, A.S., Sun, K. Y.⁺, Francisco, A.⁺, Robinson, H.⁺, Beydler, E., Bassett, D. S., Cieslak, M., Cui, Z., Davatzikos, C., Fan, Y., Gardner, M., Kishon, R., Kornfield, S. L., Larsen, B., Li, H., Linder, I., Pines, A., Pritschet, L., Raznahan, A., Roalf, D. R., Seidlitz, J., Shafiei, G., Shinohara, R. T., Wolf, D. H., Alexander-Bloch, A., Satterthwaite, T. D. & Shanmugan, S. Reproducible Biological Sex Differences in Personalized Functional Network Topography in Youth. *bioRxiv*. In Revision at *British Journal of Psychiatry*

Sun, K. Y.⁺, Schmitt, E., Moore, T. M., Barzilay, R., Almasy, L., Schultz, L. M., Mackey, A. P., Kafadar, E., Sha, Z., Seidlitz, J., Mallard, T. T., Cui, Z., Li, H., Fan, Y., Fair, D. A., Satterthwaite, T. D., **Keller, A.S.*** & Alexander-Bloch, A.* Polygenic Risk Underlies Overall Psychopathology and Personalized Functional Brain Network Topography in ABCD. *medRxiv*. In Revision at *JAMA Psychiatry*

Lynn, A. & **Keller, A.S.** (2024). Attention Emerges from Regional Neural Computations and Selective Information Flow. In *The Oxford Handbook of Infant Attention, Memory, and Learning Development*. In Revision.

Peer-Reviewed Publications _____ * co-author; + mentored trainee

Kang, K., Seidlitz, J., Bethlehem, R. A. I., Mehta, K., **Keller, A.S.**, Schildcrout, J., Tao, R., Xiong, J., Jones, M. T., Lifespan Brain Chart Consortium, 3R-BRAIN, AIBL, Alzheimer's Disease Neuroimaging Initiative, Alzheimer's Disease Repository Without Borders Investigators, CALM Team, CCNP, COBRE, cVEDA, Harvard Brain Aging Study, IMAGEN, POND, The PREVENT-AD Research Group, Fair, D., Satterthwaite, T. D., Alexander-Bloch, A. & Vandekar, S. (2024). Study design features that improve effect sizes in brain-wide association studies. *Nature*.

Cui, Z., Zhao, S., Su, H., Cong, J., Wen, X., Chen, P., Wu, G., Fan, Q., Ma, Y., Xu, X., Hu, C., Li, H., **Keller, A.S.**, Pines, A., Chen, R. (2024). Hierarchical individual variation and socioeconomic impact on personalized functional network topography in children. *BMC Medicine*.

Pines, A., Tozzi, L., Bertrand, C., **Keller, A.S.**, Zhang, X., Whitfield-Gabrieli, S., Hastie, T., Larsen, B., Leikauf, J. & Williams, L. M. (2024). The relationship between youth cognition and psychiatric symptoms depends on symptom burden. *JAMA Psychiatry*.

Mehta, K.* , Salo, T.* , Madison, T., Adebimpe, A., Bassett, D. S., Bertolero, M., Cieslak, M., Covitz, S., Houghton, A., **Keller, A.S.**, Luo, A., Miranda-Dominguez, O., Nelson, S. M., Shafiei, G., Shanmugan, S., Shinohara, R. T., Sydnor, V. J., Feczko, E., Fair, D. A.* & Satterthwaite, T. D.* (2024). XCP-D: Robust Pipeline for the postprocessing of fMRI data. *Imaging Neuroscience*.

Keller, A.S., Moore, T. M., Luo, A., Visoki, E., Gataviņš, M. M.⁺, Shetty, A.⁺, Cui, Z., Fan, Y., Feczko, E., Houghton, A., Li, H., Mackey, A. P., Miranda-Dominguez, O., Pines, A., Shinohara, R. T., Sun, K. Y.⁺, Fair, D. A.* , Satterthwaite, T. D.* , & Barzilay,

- R.* (2024). A general exposome factor explains individual differences in functional brain network topography and cognition in youth. *Developmental Cognitive Neuroscience*, 66, 101370. <https://doi.org/10.1016/j.dcn.2024.101370>
- Shafiei, G., **Keller, A. S.**, Bertolero, M., Shanmugan, S., Bassett, D. S., Chen, A. A., Covitz, S., Houghton, A., Luo, A., Mehta, K., Salo, T., Shinohara, R. T., Fair, D. A., Hallquist, M. N. & Satterthwaite, T. D. (2024). Generalizable links between symptoms of borderline personality disorder and functional connectivity. *Biological Psychiatry*. Epub ahead of print. <https://doi.org/10.1016/j.biopsych.2024.02.1016>
- Luo, A., Sydnor, V. J., Pines, A., Larsen, B., Alexander-Bloch, A. F., Cieslak, M., Covitz, S., Chen, A., Esper, N. B., Feczko, E., Franco, A. R., Gur, R. E., Gur, R. C., Houghton, A., Hu, F., **Keller, A. S.**, Kiar, G., Mehta, K., Salum, G. A., Tapera, T., Xu, T., Zhao, C., Salo, T., Fair, D. A., Shinohara, R. T., Milham, M. P. & Satterthwaite, T. D. (2024). Functional Connectivity Development along the Sensorimotor-Association Axis Enhances the Cortical Hierarchy. *Nature Communications*, 15, 3511. <https://www.nature.com/articles/s41467-024-47748-w>
- Keller, A. S.**, Pines, A. R., Sydnor, V. J., Cui, Z., Bertolero, M. A., Barzilay, R., Alexander-Bloch, A. F., Byington, N., Chen, A., Conan, G. M., Davatzikos, C., Feczko, E., Hendrickson, T., Houghton, A., Larsen, B., Li, H., Miranda-Dominguez, O., Roalf, D. R., Perrone, A., Shanmugan, S., Shetty, A.⁺, Shinohara, R. T., Fan, Y., Fair, D. A.* & Satterthwaite, T. D.* (2023) Personalized functional brain network topography is associated with individual differences in youth cognition. *Nature Communications*, 14, 8411. <https://www.nature.com/articles/s41467-024-47748-w>
- Shetty, A.⁺ & **Keller, A. S.** (2023) Mapping Individual-Specific Regions of the Multiple Demand Network During Development Reveals Increased Selectivity Associated with Executive Function. *The Journal of Neuroscience*. 43(43) 7070-7072. <https://www.jneurosci.org/content/43/43/7070>
- Larsen, B., Sydnor, V. J., **Keller, A. S.**, Yeo, B. T. T., & Satterthwaite, T. D. (2023) A critical period plasticity model for the sensorimotor-association axis of neurodevelopment. *Trends in Neurosciences*. 46(10), 847-862. [https://www.cell.com/trends/neurosciences/fulltext/S0166-2236\(23\)00167-4](https://www.cell.com/trends/neurosciences/fulltext/S0166-2236(23)00167-4)
- Keller, A. S.***, Sydnor, V. J.*, Pines, A., Fair, D. A., Bassett, D. S. & Satterthwaite, T. D. (2023) Hierarchical functional system development supports executive function. *Trends in Cognitive Sciences*. 27 (2), 160-174. <https://doi.org/10.1016/j.tics.2022.11.005>
- Pines, A., **Keller, A. S.**, Larsen, B., Bertolero, M., Ashourvan, A., Bassett, D. S., Cieslak, M., Covitz, S., Fan, Y., Feczko, E., Houghton, A., Rueter, A. R., Saggat, M., Shafiei, G., Tapera, T. M., Vogel, J., Weinstein, S. M., Shinohara, R. T., Williams, L. M., Fair, D. A. & Satterthwaite, T. D. (2023) Development of top-down cortical propagations in youth. *Neuron*, 111(8), 1316-1330. <https://doi.org/10.1016/j.neuron.2023.01.014>
- Keller, A. S.**, Mackey, A. P., Pines, A., Fair, D., Feczko, E., Hoffman, M. S., Salum, G. A., Barzilay, R. & Satterthwaite, T. D. (2022) Caregiver monitoring, but not caregiver warmth, is associated with general cognition in two large sub-samples of youth. *Developmental Science*, 26, e13337. <https://doi.org/10.1111/desc.13337>
- Keller, A. S.***, Jagadeesh, A.*, Bugatus, L., Williams, L. M. & Grill-Spector, K. (2022) Attention enhances category representations across the brain with strengthened residual correlations to ventral temporal cortex. *NeuroImage*, 249, 118900. <https://doi.org/10.1016/j.neuroimage.2022.118900>
- Richie-Halford, A., Cieslak, M., Ai, L. ... **The Fibr Community Science Consortium**, Satterthwaite, T. D., Rokem, A. (2022) An analysis-ready and quality controlled resource for pediatric brain white-matter research. *Scientific Data*, 9, 616. <https://www.nature.com/articles/s41597-022-01695-7>
- Goldstein-Piekarski A. N., Ball T. M., Samara Z., Staveland B. R., **Keller A. S.**, Fleming S. L., Grisanzio K. A., Holt-Gosselin B.⁺, Stetz P., Ma J. & Williams L. M., (2022). Mapping neural circuit biotypes to symptoms and behavioral dimensions of depression and anxiety. *Biological Psychiatry*, 91(6), 561-571. <https://doi.org/10.1016/j.biopsych.2021.06.024>
- Keller, A. S.**, Ling, R.⁺ & Williams, L. M. (2021). Spatial attention impairments are characterized by specific electroencephalographic correlates and partially mediate the association between early life stress and anxiety. *Cognitive, Affective and Behavioral Neuroscience*, 22, 414-428. <https://doi.org/10.3758/s13415-021-00963-0>
- Holt-Gosselin, B.⁺, **Keller, A. S.**, Chesnut, M., Ling, R.⁺, Grisanzio, K. & Williams, L. M. (2021). Greater baseline connectivity of the salience and negative affect circuits are associated with natural improvements in anxiety over time in untreated participants. *Journal of Affective Disorders*, 295, 366-376. <https://doi.org/10.1016/j.jad.2021.08.039>
- Keller, A. S.**, Davidesco, I. & Tanner, K. D. (2020). Attention Matters: How orchestrating attention relates to classroom learning. *Cell Biology Education - Life Sciences Ed.* 19(3):fe5. <https://doi.org/10.1187/cbe.20-05-0106>
- Chilver, M. R., **Keller, A. S.**, Park, H., Jamshidi, J., Montalto, A., Schofield, P. R., Clark, C. R., Harmon-Jones, E., Williams, L. M.* & Gatt, J. M.* (2020). Electroencephalography profiles as a biomarker of wellbeing: A twin study. *Journal of Psychiatric Research*, 126, 114-121. <https://doi.org/10.1016/j.jpsychires.2020.04.010>

- Rajpurkar, P., Dass D., Yang J., Vale, V., **Keller, A. S.**, Irvin, J., Taylor, Z., Basu, S., Ng, A. & Williams, L. M. (2020). Machine Learning Prediction of Treatment Response to Antidepressant Medication Using Pre-Treatment EEG: Development and Validation of the ElecTreeScore Algorithm, *JAMA Network Open*, 3(6):e206653. <https://doi.org/10.1001/jamanetworkopen.2020.6653>
- Keller, A. S.**, Ball, T. M. & Williams, L. M. (2019). Deep phenotyping of attention impairments and the “Inattention Biotype” in Major Depressive Disorder. *Psychological Medicine*. 1-10. <https://doi.org/10.1017/S0033291719002290>
- Keller, A. S.**, Leikauf, J. E., Holt-Gosselin, B.⁺, Staveland, B. R. & Williams, L. M. (2019). Paying Attention To Attention in Depression. *Translational Psychiatry*. 9, 279. <https://doi.org/10.1038/s41398-019-0616-1>
- Keller, A. S.**, Qiu, H.⁺, Li, J.⁺ & Williams, L. M. (2019). Modeling attention impairments in Major Depression. *Proceedings of the Computational Cognitive Neuroscience Conference*. <https://doi.org/10.32470/CCN.2019.1325-0>
- Keller, A. S.** & Christopher, L. (2017). Distinct Phases of Tau, Amyloid, and Functional Connectivity in Healthy Older Adults. *The Journal of Neuroscience*. 37(37):8857-8859. <https://doi.org/10.1523/JNEUROSCI.1687-17.2017>
- Keller, A. S.**, Payne, L. & Sekuler, R. (2017) Characterizing the roles of alpha and theta oscillations in multisensory attention. *Neuropsychologia*. 99:48-63. <https://doi.org/10.1016/j.neuropsychologia.2017.02.021>
- Keller, A. S.** & Sekuler, R. (2015). Memory and learning with rapid audiovisual sequences. *Journal of Vision*. 15(15):7. doi: 10.1167/15.15.7. <https://doi.org/10.1167/15.15.7>

Invited Talks

- April 2025. *Genetic and environmental factors associated with person-specific functional brain network organization and psychiatric symptoms* Society of Biological Psychiatry (SOBP). Invited symposium talk. Toronto, Canada
- March 2025. *Precision neuroscience for studies of individual differences in youth environments and cognition*. Cognitive Neuroscience Society (CNS). Invited symposium talk. Boston, MA.
- March 2025. *Title TBD*. UConn Health Child Psychiatry Division Food For Thought Series (Internal).
- February 2025. *Title TBD*. Department of Psychology Clinical Current Works Series, Yale University. New Haven, CT.
- December 2024. *Individual differences in goal-directed attention: applications to neurodevelopment and psychiatric disorders* Department of Psychology Colloquium, Brandeis University, Waltham, MA.
- November 2024. *Reproducible Sex Differences in Personalized Functional Network Topography in Youth*. Yale Imaging and Psychopharmacology Lab, Yale University. New Haven, CT.
- October 2024. *Personalized Neuroscience for Large-Scale Studies of Youth*. Developmental Psychology Brown Bag, University of Connecticut (Internal).
- October 2024. *Personalized Neuroscience for Mental Health* Clinical Psychology Brown Bag, University of Connecticut (Internal).
- October 2024. *Personalized neuroscience for understanding individual differences in cognition* Behavioral Neuroscience Seminar, University of Connecticut (Internal).
- October 2024. *Precision brain mapping for studies of cognitive neurodevelopment*. American Academy of Child and Adolescent Psychiatry (AACAP) Meeting. Invited symposium talk. Seattle, WA.
- September 2024. *Personalized functional brain network topography reflects childhood environments and cognition*. Chair, Flux Congress Symposium.
- September 2024. *Linking multidimensional environments, brain network organization, and cognition in youth*. Division of Psychiatry Monthly Neuroscience Meeting, University College London.
- June 2024. *Exploring the exposome: Investigating associations among multidimensional environments, functional brain network organization, and cognition in youth*. NIH Working Group on Environmental Neuroscience.
- May 2024. *Understanding cognitive development by capturing complex, multidimensional, childhood environments and individual-specific patterns of functional brain network organization*. Society of Biological Psychiatry, Austin, TX.
- Apr 2024. *Cognition in Context: Goal-directed attention across clinical, neurodevelopmental, and classroom learning contexts*. Center for Neuroscience and Society, University of Pennsylvania.
- Mar 2024. *Individual differences in goal-directed attention: applications to clinical disorders and development*. Gabrieli Lab, MIT.

- Mar 2024. *Quantifying environmental and functional brain network contributions to children's current and future cognitive abilities*. Adolescent Brain Cognitive Development Insights and Innovations Meeting (AIIIM), Bethesda, MD.
- Jan 2024. *Attention as a core element of human cognition*. Brain, Behavior and Cognition Seminar, Boston University, Boston, MA.
- Jan 2024. *Characterizing individual differences in goal-directed attention across mental states*. Psychological Sciences Seminar, University of Connecticut, Storrs, CT.
- Jan 2024. *Attention as a core element of human cognition*. Computational Psychiatry, Neuroimaging and Sleep Lab. Stanford University (virtual).
- Jan 2024. *A general exposome factor explains individual differences in functional brain network topography and cognition in youth*. Lifespan Brain Institute Seminar, University of Pennsylvania.
- Jan 2024. *Attention as a core element of human cognition*. Department of Psychology Colloquium, University of Southern California, Los Angeles, CA.
- Jan 2024. *Cognition in Focus: Goal-Directed Attention in Neurodevelopment and Psychiatric Disorders*. Lifespan Brain Institute Seminar, University of Pennsylvania, Philadelphia, PA.
- Dec 2023. *Cognition in Focus: Goal-Directed Attention in Neurodevelopment and Psychiatric Disorders*. Cognition, Affect, and Neurodevelopment in Youth Lab, University of California, Los Angeles (virtual).
- Dec 2023. *Paying attention to attention: Goal-directed attention across mental states*. Psychology Seminar, Rhode Island College, Providence, RI.
- Dec 2023. *Attention as a core element of human cognition*. Psychological and Brain Sciences Seminar, University of Massachusetts Amherst, Amherst, MA.
- Oct 2023. *My Journey In Science: Chasing goal-directed attention across mental states*. Penn Undergraduate Neuroscience Society, University of Pennsylvania, Philadelphia, PA.
- May 2023. *Associations among exposome factors, personalized functional brain network topography and cognitive functioning in youth*. DCAN Lab Meeting, University of Minnesota.
- Mar 2023. *Women in STEM Symposium*. Career Development Panel, University of Pennsylvania, Philadelphia, PA.
- Feb 2023. *Attention and mental health: a developmental cognitive neuroscience perspective*. Neuroscience Undergraduate Honors Seminar, University of Pennsylvania, Philadelphia, PA.
- Jan 2023. *Personalized functional brain network topography is predicts individual differences in youth cognition*. Neuroimaging Data Blitz, University of Pennsylvania, Philadelphia, PA.
- Jul 2022. *Attention and Mental Health: A Developmental Cognitive Neuroscience Perspective*. Science Digest Seminar, Okinawa Institute of Science and Technology, Okinawa, Japan.
- Jun 2022. *Machine Learning Facilitates Generalizable Associations with Cognitive and Clinical Measures in Large-scale Developmental Neuroimaging Datasets*. Symposium: Machine Learning in Neuroimaging, Organization for Human Brain Mapping, Glasgow, Scotland.
- Apr 2022. *Parsing the Effects of Threat and Deprivation Adverse Childhood Experiences (ACEs) on Multiple Domains of Cognitive Functioning in Two Large-Scale Datasets of Youth*. Invited talk: Annual Meeting of the Society of Biological Psychiatry, New Orleans, LA, USA.
- Mar 2022. *How do experiences in childhood shape the development of personalized brain networks and cognition?*. Developmental Cognition and Neuroimaging Lab, University of Minnesota. Virtual.
- Mar 2022. *Caregiver monitoring is associated with higher performance across three domains of cognition*. BarziLab, University of Pennsylvania. Virtual.
- Jan 2022. *Personalized functional brain network topography is associated with individual differences in cognition in youth*. Invited talk: ABCD Analytics Meeting. Virtual.
- Jan 2021. *Why Attention Matters: How Active Learning Strategies and Synchronized Brain Activity Support Attention and Learning*. Learning & the Brain Conference on "The Science of Teaching During a Pandemic: Creating Motivated, Focused, Active, Autonomous Learners." Virtual.
- Jan 2021. *Goal-Directed Attention in Healthy and Unhealthy Mental States*. Mind, Brain, Computation and Technology Seminar Series, Stanford University, Virtual.
- Sep 2020. *Characterizing impairments of goal-directed attention in mental illness*. Rutgers University Psychology Dept Brown Bag, Piscataway, NJ, USA.

- Jun 2020. *“My brain has too many tabs open”*: Unpacking concentration difficulties to understand how attention changes in depression and anxiety. STAR Lab, Stanford, CA, USA.
- May 2020. *Beyond “Concentration Difficulties”*: Probing Attention Impairments in Depression and Anxiety Across Multiple Units of Analysis. Society of Biological Psychiatry Annual Meeting, New York NY, USA.
- Mar 2020. *Paying attention to attention in mental illness*. STEM Speaker Series, Cañada College, Redwood City, CA, USA.
- Jun 2019. *Slowness of recovery of stress cortisol and severity of early life stress predict changes in corpus callosum diffusivity*. SNAP Lab, Stanford University, Stanford CA, USA.
- May 2019. *Implicit Bias and the Leaky Pipeline*, Society of Biological Psychiatry Women’s Luncheon, Chicago, IL, USA.
- May 2019. *Inequality in science: A close look at the data*. Invited talk and workshop given for the Graduate Training Program in Cell and Molecular Biology, Stanford, CA, USA.
- Feb 2019. *Inequality in science: A close look at the data*. Fordyce and Hershlag Laboratories, Stanford, CA, USA.
- Nov 2018. *Paying attention to attention in depression*. BRAVE Lab, Stanford University VA Hospital, Stanford CA, USA.
- Oct 2018. *The International Study to Predict Optimized Treatment for Depression* Artificial Intelligence for Precision Mental Health Data Blitz, Stanford, CA, USA.
- Oct 2018. *Paying attention to attention in the brain*. Leigh High School, San Jose, CA, USA.
- Jul 2018. *Diversity and Inclusion in Science*, Biosciences Advocacy in the Interest of Minority Students, Stanford, CA, USA.
- Apr 2018. *Paying attention to attention in the brain*. Bay Area Society for Neuroscience Youth, San Jose, CA, USA.
- Mar 2018. *Inequality in science: A close look at the data*. Stanford Biochemistry Department, Stanford, CA, USA.
- Nov 2014. *Multisensory interactions: Incidental learning and disruption*. Undergraduate Research Colloquium, Brandeis University, Waltham, MA, USA.

Posters _____ * co-author; + mentored trainee

- Keller, A.S.**, Shetty, A.⁺, Barzilay, R., Calkins, M. E., Chong, Y.-S., Fair, D. A., Gluckman, P., Gur, R. E., Gur, R. C., Mackey, A. P., Meaney, M. J., Moore, L. A., Moore, T. M., Satterthwaite, T. D., Tan, A. P., Tervo-Clemmens, B. & Larsen, B. (2024). School’s out for the summer: cognition varies across the calendar year in multiple large-scale datasets. American College of Neuropsychopharmacology (ACNP), Phoenix, AZ.
- Feczko, E., Coffman, C., Koirala, S., Hermosillo, R., Grimsurd, G., Moser, J., Miranda-Dominguez, O., Weldon, K. B., Nelson, S., **Keller, A. S.**, Satterthwaite, T. D., Elison, J., Tervo-Clemmens, B., Fair, D. A. & Basu, Saonli (2024). ABCD functional topography shows minimal SNP heritability. Flux Congress, Baltimore, MD.
- Shafiei, G., Sydnor, V. J., Cieslak, M., **Keller, A. S.**, Luo, A., Mehta, K., Salo, T., Bassett, D. S., Shinohara, R. T. & Satterthwaite, T. D. (2024). Intrinsic timescale evolves along a sensorimotor-association cortical axis in neurodevelopment. Organization for Human Brain Mapping, Seoul, South Korea.
- Luo, A., Sydnor, V. J., Bagautdinova, J., Alexander-Bloch, A., Larsen, B., Yeh, F.-C., Hu, F., Jasker, M., **Keller, A. S.**, Roalf, D. R., Shafiei, G., Shinohara, R. T., Cieslak, M. & Satterthwaite, T. D. (2024). Hierarchical development of white matter tracts in youth. Organization for Human Brain Mapping, Seoul, South Korea.
- Keller, A.S.**, Moore, T. M., Luo, A. Visoki, E., Gataviņš, M. M.⁺, Shetty, A.⁺, Cui, Z., Fan, Y., Feczko, E., Houghton, A., Li, H., Mackey, A.P., Miranda-Dominguez, O., Pines, A., Shinohara, R. T., Sun, K. Y.⁺, Fair, D. A.*, Satterthwaite, T. D.*, & Barzilay, R.* (2024). Cognitive development reflects multidimensional environments and individual-specific patterns of functional brain network organization. Cognitive Neuroscience Society Annual Meeting, Toronto, Canada.
- Sun, K. Y., **Keller, A.S.**, Barzilay, R., Moore, T. M., Almasy, L., Schultz, L. M., Fair, D. A., Satterthwaite, T. D.*, & Alexander-Bloch, A.* (2024). Transdiagnostic polygenic risk, general psychopathology, and personalized functional brain networks in the Adolescent Brain Cognitive Development cohort. ABCD Insights and Innovations Meeting, Bethesda, MD.
- Keller, A.S.**, Moore, T. M., Visoki, E., Gataviņš, M. M., Shetty, A., Cui, Z., Fan, Y., Feczko, E., Houghton, A., Li, H., Mackey, A. P., Miranda-Dominguez, O., Pines, A., Shinohara, R. T., Fair, D. A.*, Satterthwaite, T. D.*, & Barzilay, R.* (2023). Highlighting the role of multidimensional childhood environments in functional brain network organization and cognitive development. Meeting of the American College of Neuropsychopharmacology, Tampa, FL.

- Keller, A.S.**, Moore, T. M., Visoki, E., Gataviņš, M. M.⁺, Byington, N., Conan, G. M., Cui, Z., Fan, Y., Feczko, E., Hendrickson, T., Houghton, A., Li, H., Miranda-Dominguez, O., Rueter, A., Perrone, A., Pines, A., Shinohara, R. T., Fair, D. A.* , Satterthwaite, T. D.* , & Barzilay, R.* (2023). Associations among exposome factors, personalized functional brain network topography, and cognitive functioning in youth. Flux Congress. Santa Rosa, CA.
- Gataviņš, M. M.⁺, Luo, A., Sydnor, V. J., Shafiei, G., Gur, R. E., Gur, R. C., Mackey, A. P.* , Satterthwaite, T. D.* , & **Keller, A.S.*** (2023). Functional network segregation and integration along the sensorimotor-association axis in adolescence. Flux Congress. Santa Rosa, CA.
- Larsen, B.* , **Keller, A.S.***, Shetty, A.⁺, Calkins, M. E., Gur, R. E., Gur, R. C., Moore, T. M. & Satterthwaite, T. D. (2023). School's Out for the Summer: Modeling Time-Of-Year Effects on Children's Cognition Using Cyclical Splines Across Large-Scale Datasets. Flux Congress. Santa Rosa, CA.
- Sun, K. Y.⁺, **Keller, A.S.**, Barzilay, R., Moore, T. M., Almasy, L., Schultz, L., Satterthwaite, T. D., Fair, D. A. & Alexander-Bloch, A. (2023). Transdiagnostic Polygenic Risk, General Psychopathology, and Personalized Functional Brain Networks in the Adolescent Brain Cognitive Development Cohort. Flux Congress. Santa Rosa, CA.
- Shafiei, G., **Keller, A.S.**, Bertolero, M., Covitz, S., Houghton, A., Mehta, K., Salo, T., Fair, D. A. & Satterthwaite, T. D. (2023). Linking functional connectivity to symptoms of borderline personality disorder in youth. Flux Congress. Santa Rosa.
- Keller, A.S.**, Pines, A. R., Sydnor, V. J., Cui, Z., Bertolero, M. A., Barzilay, R., Alexander-Bloch, A. F., Byington, N., Chen, A., Conan, G. M., Davatzikos, C., Feczko, E., Hendrickson, T., Houghton, A., Larsen, B., Li, H., Miranda-Dominguez, O., Roalf, D. R., Perrone, A., Shanmugan, S., Shinohara, R. T., Fan, Y., Fair, D. A. & Satterthwaite, T. D. (2023). Children's functional brain network topography predicts their cognitive abilities two years later. Organization for Human Brain Mapping (OHBM). Montreal, Canada.
- Luo, A., Sydnor, V. J., Pines, A., Alexander-Bloch, A. F., Bertolero, M., Cieslak, M., Covitz, S., Feczko, E., Franco, A. R., Gur, R. E., Gur, R. C., Houghton, A., **Keller, A.S.**, Kiar, G., Larsen, B., Tapera, T., Xu, T., Fair, D. A., Milham, M. P. & Satterthwaite, T. D. (2023). Refinement of functional connectivity in development aligns with the sensorimotor to association axis. Organization for Human Brain Mapping (OHBM). Montreal, Canada.
- Mehta, K.* , Salo, T.* , Madison, T., Adebimpe, A., Bertolero, M., Covitz, S., Feczko, E., Houghton, A., **Keller, A.S.**, Luo, A., Nelson, S. M., Shanmugan, S., Sydnor, V. J., Cieslak, M., Fair, D. A.* & Satterthwaite, T. D.* (2023). XCP-D: Robust Software for Post-processing fMRI data. Organization for Human Brain Mapping (OHBM). Montreal, Canada.
- Pines, A., **Keller, A.S.**, Larsen, B., Bertolero, M., Ashourvan, A., Bassett, D., Cieslak, M., Covitz, S., Fan, Y., Feczko, E., Houghton, A., Rueter, A., Sagar, M., Shafiei, G., Tapera, T., Vogel, J., Weinstein, S., Shinohara, R., Williams, L. M., Fair, D. A.* & Satterthwaite, T. D.* (2023). Development of top-down cortical propagations in youth. Organization for Human Brain Mapping (OHBM). Montreal, Canada.
- Keller, A.S.**, Moore, T. M., Visoki, E., Pines, A., Sydnor, V.J., Cui, Z., Bertolero, M.A., Alexander-Bloch, A.F., Byington, N., Chen, A., Conan, G. M., Davatzikos, C., Feczko, E., Hendrickson, T., Houghton, A., Larsen, B., Li, H., Miranda-Dominguez, O., Roalf, D. R., Perrone, A., Perrone, A., Shanmugan, S., Shetty, A.⁺, Shinohara, R. T., Fan, Y., Fair, D. A.* , Satterthwaite, T. D.* , & Barzilay, R.* (2023). Predicting cognitive abilities from individual-specific patterns of functional brain network topography in youth. Psychiatry Research Day. University of Pennsylvania, Philadelphia, PA.
- Pines, A. R., Leikauf, J., **Keller, A.S.**, Larsen, B. & Williams, L. M. (2023). Classroom function is critical to the relationship between the G factor and P factor. Society of Biological Psychiatry (SOBP). San Diego, CA.
- Keller, A.S.**, Pines, A. R., Bertolero, M. A., Barzilay, R., Alexander-Bloch, A. F., Byington, N., Chen, A., Conan, G. M., Cui, Z., Fan, Y., Feczko, E., Hendrickson, T., Houghton, A., Larsen, B., Li, H., Miranda-Dominguez, O., Roalf, D. R., Rueter, A., Perrone, A., Shinohara, R. T., Sydnor, V. J., Fair, D. A. & Satterthwaite, T. D. (2022). Personalized functional brain network topography is associated with multiple domains of cognition in the ABCD study: A replication and extension of Cui et al. 2020. Flux Congress. Paris, FR.
- Pines, A. R., **Keller, A.S.**, Bertolero, M. A., Larsen, B., Ashourvan, A., Covitz, S., Cieslak, M., Weinstein, S., Tapera, T., Houghton, A., Power, J., Fan, Y., Shinohara, R. T., Feczko, E., Fair, D. A. & Satterthwaite, T. D. (2022). Optical flow reveals the development of top-down propagations across the neocortex. Flux Congress. Paris, FR.
- Luo, A., Sydnor, V., Pines, A., Alexander-Bloch, A., Bertolero, M., Covitz, S., Cieslak, M., Feczko, E., Flanco, A., Gur, R., Gur, R., Houghton, A., **Keller, A.S.**, Kiar, G., Larsen, B., Milham, M., Satterthwaite, T. D. (2022). Refinement of Functional Connectivity in Development Aligns with the Sensorimotor to Association Axis. Flux Congress. Paris, FR.
- Keller, A.S.**, Pines, A. R., Bertolero, M. A., Barzilay, R., Alexander-Bloch, A. F., Byington, N., Conan, G. M., Cui, Z., Fan, Y., Feczko, E., Hendrickson, T., Houghton, A., Larsen, B., Li, H., Miranda-Dominguez, O., Roalf, D. R., Rueter, A., Perrone, A., Shinohara, R. T., Sydnor, V. J. & Satterthwaite, T. D. (2022). Cortical networks higher along the sensorimotor-association axis yield more accurate out-of-sample predictions of cognitive performance across three domains. Gradients Pre-OHBM Workshop. Cambridge, UK.

- Warthen, K., **Keller, A.S.** & Williams, L. M. (2022). Reduced stability of dynamic functional connectivity across and within neural circuits is associated with lower effort-related behavioral drive in a transdiagnostic sample of depression and anxiety. *Society of Biological Psychiatry*, 91(9), S227.
- Keller, A.S.**, Li, J.** , Qiu, S.** , Berwian, I., Huys, Q. & Williams, L. M. (2021). Nevertheless, She Persisted: Reward Responsivity and Effort Expenditure Contribute to Persistence on a Difficult Cognitive Task in Individuals With Mood and Anxiety Symptoms, With Identifiable Neural Correlates. *Society of Biological Psychiatry*, 89(9), S336-S337.
- Holt-Gosselin, B.⁺, **Keller, A.S.**, Chesnut, M. & Williams, L. M. (2021). Default Mode Network Moderates the Relationship Between Lifestyle Changes and Natural Improvements in Clinical Symptoms Over Time in Untreated Participants. *Society of Biological Psychiatry*, 89(9), S111.
- Chilver, M., **Keller, A.S.**, Park, H., Jamshidi, J., Montalto, A., Schofield, P., Clark, R., Harmon-Jones, E., Williams, L. M. & Gatt, J. (2021). Distinct Electrophysiological Markers of Mental Wellbeing and Mental Illness Symptoms in 422 Healthy Adults. *Society of Biological Psychiatry*, 89(9), S163-164.
- Keller, A.S.**, Holt-Gosselin, B.** , Ling, R.** , Williams, L. M. (2020). Unpacking “Concentration Difficulties”: Impaired spatial attention partially mediates the association between early life stress and anxiety in adulthood with specific neural correlates. Annual Meeting of the American College of Neuro-Psychopharmacology (ACNP), Virtual Conference.
- Hack, L. M., **Keller, A.S.**, Warthen, K. G., Whicker, C. L., Williams, L. M. (2020). The effect of selective D3 agonism on anhedonia symptoms and reward neurocircuitry in subjects with MDD and prominent anhedonia. Annual Meeting of the American College of Neuro-Psychopharmacology (ACNP), Virtual Conference.
- Hack, L. M.* , **Keller, A.S.***, Whicker, C. L., Williams, L. M. (2020). Mechanistic trial evaluating the effect of repetitive transcranial magnetic stimulation on RDoC constructs in treatment-resistant depression. *Society of Biological Psychiatry*.
- Keller, A.S.**, Ball, T. M., Cocjin, J. B., Jagadeesh, A. V., Bugatus, L., Grill-Spector, K., Williams, L. M. (2019). Mechanisms of goal-directed attention in healthy and unhealthy mental states. Department of Defense National Defense Science and Engineering Graduate (NDSEG) Fellowship Conference, San Diego, CA, USA.
- Keller, A.S.**, Qiu, S.** , Li, J.** , & Williams, L. M. (2019). Modeling attention impairments in Major Depression. Computational Cognitive Neuroscience, Berlin, Germany.
- Keller, A.S.***, Ling, R.** , Holt-Gosselin, B.⁺ & Williams, L. M. (2019). Attention and working memory in mental illness: Experimental design and preliminary results. Stanford Bio-X Symposium, Stanford CA, USA.
- Qiu, S.** , Li, J.** , **Keller, A. S.** & Williams, L. M. (2019). Modeling attention impairments in Major Depression. Stanford Bio-X Symposium, Stanford CA, USA.
- Keller, A. S.**, Ball, T. M., Cocjin, J. B., Jagadeesh, A. V., Bugatus, L., Grill-Spector, K. & Williams, L. M. (2019) Residual correlations reveal top-down selective attention mechanisms in healthy and depressed adults. Organization for Human Brain Mapping, Rome, Italy.
- Keller, A. S.**, Ball, T. M. & Williams, L. M. (2019) Deep phenotyping of attention impairments and the “Inattention Biotype” in Major Depressive Disorder. Society for Biological Psychiatry, Chicago, IL, USA.
- Tally, S.⁺, Holt-Gosselin, B.⁺, **Keller, A. S.**, Staveland, B. R., Williams, N., Suppes, P., Ostacher, M. & Williams, L. M. (2019). Effects of dopamine agonist and TMS treatments on anhedonic depression. Bio-X Symposium, Stanford, CA, USA.
- Keller, A. S.***, Cocjin, J. C.* , Jagadeesh, A. J.* , Bugatus, L., & Grill-Spector, K. (2018). Selective attention influences visual object category representations across human cortex. Society for Neuroscience (SfN), San Diego, CA, USA.
- Keller, A. S.**, Ball, T. M. & Williams, L. M. (2018). Fronto-parietal hypo-connectivity and reduced alpha oscillations characterize the “Inattention Biotype” in Major Depressive Disorder. Stanford Neurosciences Institute, Stanford, CA, USA.
- Keller, A. S.**, Korgaonkar, M. & Williams, L. M. (2018) Feature-based selective attention as a biomarker for impaired cognition in depression. Society for Biological Psychiatry, New York, NY, USA.
- Keller, A. S.**, Payne, L. & Sekuler, R. (2016) Multisensory divided attention: Role of theta oscillations. Cognitive Neuroscience Society, New York, NY, USA.
- Keller, A. S.**, Payne, L. & Sekuler, R. (2015) Fronto-central theta oscillations during multisensory divided attention. Brandeis Division of Sciences Summer Undergraduate Research Poster Session, Waltham, MA, USA.
- Keller, A. S.**, Payne, L. & Sekuler, R. (2015) When multiple modalities require attention, theta steps up to the plate. NSF inter-Science of Learning Center Conference, San Diego, CA, USA.
- Keller, A. S.**, Payne, L. & Sekuler, R. (2015) When multiple modalities require attention, theta steps up to the plate. Cognitive Neuroscience Society, San Francisco, CA, USA.
- Keller, A. S.**, Payne, L. & Sekuler, R. (2014). Theta oscillations drive multisensory divided attention. Brandeis Division of Sciences Summer Undergraduate Research Poster Session, Waltham, MA, USA.

Keller, A. S., Aizenman, A. M. & Sekuler, R. (2014). Multisensory interactions: Incidental learning and disruption. Gordon Research Conference: Neurobiology of Cognition, Bethel, ME, USA.

Keller, A. S. & Sekuler, R. (2014). Ignored sounds infiltrate perception of rapid visual sequences. Brandeis University Undergraduate Science Symposium, Waltham, MA, USA.

Keller, A. S., Aizenman, A. M. & Sekuler, R. (2013). Multisensory learning: Feedback does not matter. Brandeis Division of Sciences Summer Undergraduate Research Poster Session, Waltham, MA, USA.

Teaching

Instructor of Record

Spring 2025	PSYC 2251: Cognitive Psychology , Instructor	<i>UConn</i>
Fall 2024	PSYC 3384/5570: Human Neuroimaging , Instructor	<i>UConn</i>
Spring 2024	NRSC 4421: Human Neuroimaging , Instructor	<i>Penn</i>
Spring 2023	NRSC 4421: Human Neuroimaging , Instructor	<i>Penn</i>
Winter 2021	PSYCH 196a: Neuroscience Research , Instructor	<i>Stanford</i>
Fall 2020	Stanford Psychology PhD Program Bootcamp , Instructor	<i>Stanford</i>

Teaching Assistantships

Spring 2021	PSYCH 196b: Foundational Topics in Neuroscience , Teaching Assistant	<i>Stanford</i>
Fall 2019	Stanford Psychology Dept EEG Laboratory , Teaching Assistant	<i>Stanford</i>
Fall 2019	NSUR 249: NeuroTech: Experimental Immersion in Neuroscience , Teaching Assistant	<i>Stanford</i>
Fall 2018	PSYCH 30: Introduction to Perception , Teaching Assistant	<i>Stanford</i>
Fall 2017	NEPR 299: Stanford Intensive Neurosciences Bootcamp , Teaching Assistant	<i>Stanford</i>
Winter 2017	BIOS 225: Diversity and Inclusion in Science , Teaching Assistant	<i>Stanford</i>
Fall 2015	Dept of Academic Services , Undergraduate Group Study Tutor	<i>Brandeis</i>

Guest Lessons

Spring 2024	PGY-2 Neuroscience Didactics - Diversity, Equity and Inclusion , Guest Lecturer	<i>Penn</i>
Spring 2024	PGY-2 Neuroscience Didactics - Depression , Guest Lecturer	<i>Penn</i>
Fall 2023	PSYC 149: Introduction to Cognitive Neuroscience , Guest Lecturer	<i>Penn</i>
Summ 2023	PGY-4 Neuroscience Didactics - Cognitive Impairment , Guest Lecturer	<i>Penn</i>
Spring 2023	NRSC 4999: Neuroscience Honors Seminar , Guest Lecturer	<i>Penn</i>
Spring 2023	PGY-2 Neuroscience Didactics - Depression , Guest Lecturer	<i>Penn</i>
Fall 2022	PSYC 149: Introduction to Cognitive Neuroscience , Guest Lecturer	<i>Penn</i>
Fall 2017	PSYCH 246: Cognitive Neuroscience Friday Seminar , Guest Lecturer	<i>Stanford</i>
Fall 2015	NPSY22B: Introduction to Cognitive Neuroscience , Guest Lecturer	<i>Brandeis</i>
Fall 2014	NPSY22B: Introduction to Cognitive Neuroscience , Guest Lecturer	<i>Brandeis</i>

Participation in Teacher Training

Spring 2024	Faculty Seminar on Inclusive and Equitable Teaching II , Center for Teaching & Learning	<i>Penn</i>
Fall 2023	Faculty Seminar on Inclusive and Equitable Teaching I , Center for Teaching & Learning	<i>Penn</i>
Fall 2023	Engaging Students on the First Day of Class , Center for Teaching & Learning	<i>Penn</i>
Fall 2022	Inclusive Teaching in STEM , NSF Improving Undergraduate STEM Education program	<i>Online</i>
Winter 2021	Learning and the Brain , Harvard/MIT/UCB Science of Teaching and Learning Conference	<i>Online</i>
Winter 2020	Preparing Future Professors , Seminar Course; Shadowed Dr. Kimberly Tanner at SFSU	<i>Stanford</i>

Mentorship, Outreach & Academic Service

Mentorship - Direct Supervision

2025-Pres	Anna Wagner , Undergraduate Research Assistant	UConn
2025-Pres	Natalie Kells , Undergraduate Research Assistant	UConn
2024-Pres	Niyati Dave , Undergraduate Research Assistant	UConn
2024-Pres	Heather Robinson , Graduate Student	UConn
2022-Pres	Alisha Shetty , Undergraduate Research Assistant	Penn
2022-Pres	Kevin Sun , Graduate Student	Penn
2022-2024	Mārtiņš Gataviņš , Undergraduate Research Assistant <i>Post-Mentorship Position</i> , Post-Bacc. Research Assistant, University of Pennsylvania	Penn
2022-2024	Kristin Murtha , Graduate Student <i>Post-Mentorship Position</i> , Same: Graduate Student, University of Pennsylvania	Penn
2022-2023	Sabina London , Graduate Student <i>Post-Mentorship Position</i> , Same: Graduate Student, University of Pennsylvania	Penn
2019-2021	Ruth Ling , Undergraduate Research Assistant <i>Post-Mentorship Position</i> , Medical Student, Washington University	Stanford
2019-2021	Bailey Holt-Gosselin , Clinical Research Coordinator <i>Post-Mentorship Position</i> , Neuroscience PhD Program, Yale University	Stanford
2018-2021	Jason Li , Undergraduate Research Assistant (AI for Mental Health) <i>Post-Mentorship Position</i> , Computer Science Master's Program, Stanford University	Stanford
2018-2021	Helen Qiu , Undergraduate Research Assistant (AI for Mental Health) <i>Post-Mentorship Position</i> , Computer Science Master's Program, Stanford University	Stanford

Outreach

2022-Pres	Flux Society , Communications Committee; fluxsociety.org/flux-blog
2022-2023	UPenn DiVE In , Steering Committee Member, Data and Outreach Committee Lead
2022-2023	PennLINC DEI and Professional Development Workgroup , Coordinator
2023	UPenn Womem in STEM Symposium , Career Development Panel
2022	Flux Congress , Trainee Mentorship Program
2017-2021	NeuWrite West , Co-President, Writer, Editor; neuwritewest.org
2017-2021	Stanford Science Penpals , Vice President, School Coordinator, Neuroscience Liaison
2018-2021	Neuroscience Student Network , Workshop Leader
2020-2021	Stanford Neuroscience Application Assistance Program (SNAAP) , Mentor
2020-2021	Anti-Black Racism & Neuroscience Blog , Writer, Editor; tinyurl.com/neuroracism
2020-2021	Stanford Biosciences Student Association (SBSA) , Mentor
2020-2021	Stanford PanLab Anti-Racism Working Group , Volunteer
2020-2021	Showing Up For Racial Justice , Bay Area Action Hour Volunteer
2017-2020	Stanford Brain Day , Middle School Classroom Instructor
2017-2019	Inequality in STEM Project , Writer, Workshop Leader; tinyurl.com/STEMinequality
2019	Stanford Community College Visit Day , Volunteer
2016-2018	Stanford SPLASH , Instructor, Volunteer
2015-2016	Brandeis Students to End Alzheimer's Disease , Founder, Co-President

Academic Service

2025-Pres	Flux Society , 2025 Program Committee
2024-Pres	UConn Institute for the Brain and Cognitive Sciences (IBACS) , DEI Committee
2023-Pres	Flux Society , Diversity, Inclusion and Belonging Committee
2023-Pres	Society of Biological Psychiatry , Justice, Equity, Diversity and Inclusion Committee
2023	Flux Society , Dissertation Award Review Committee
2021	Wu Tsai Neuroscience Seminar Speaker Selection Committee , Committee Member
2021	Stanford Neurosciences Program Director Selection Committee , Student Representative
2018	Stanford Mind, Brain, Computation and Technology Symposium , Student Organizer
2017-2019	Stanford Neurosciences Program Committee , Student Representative
2017-2018	Stanford Neurosciences Program , Communications Representative

Peer Review: Acta Neuropsychiatrica, Biological Psychiatry, Cerebral Cortex, Cortex, Developmental Cognitive Neuroscience, eLife, Imaging Neuroscience, JAMA Psychiatry, Journal of Adolescent and Child Psychiatry, NeuroImage, Neuropsychopharmacology, National Science Foundation Grant Review, Nature, PNAS, PNAS Nexus, Psychological Medicine, Scientific Reports

Professional Memberships: Society of Biological Psychiatry, Flux Society, Cognitive Neuroscience Society, Society for Neuroscience, Organization for Human Brain Mapping