

Arielle S. Keller, PhD, MS

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Academic Appointments & Education

University of Connecticut

ASSISTANT PROFESSOR OF COGNITIVE NEUROSCIENCE

Director, Applied Cognition & Personalized Neuroscience Laboratory

Department of Psychological Sciences

Institute for the Brain and Cognitive Sciences

Affiliate, Cognitive Science Program

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

• 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 (Co-PI), Institute for the Brain and Cognitive Sciences (IBACS)	\$ 24,151.24
2025	IBACS Seed Grant (PI), 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	
2024	Best of 2023, Trends in Cognitive Sciences	
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	ADVANCE Institute Scholar , Stanford University	\$ 6,500.00
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., Dave, N.⁺, 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. (2025). School's out for the summer: cognition varies across the calendar year in multiple large-scale datasets. *PsyArXiv*. Under Review at *Nature Communications*.

Juarez, D., Jennings, K. **Keller, A.S.** & Miller, J. (2025). Prediction versus explanation of adolescents' psychopathology: environmental data predict while brain measures moderate effects. In revision at *Journal of Child Psychology and Psychiatry*.

Nakua, H., Korbmacher, M., **Keller, A.S.**, Keyes, K., Jacobs, G., Wolfers, T., Caye, A., Lee, S. & Marsh, R. (2025). Improving conceptual credibility in developmental neuroimaging research: considerations and strategies to guide cumulative progress. Under Review at *Nature*.

Luo, A. C., Meisler, S. L., Sydnor, V. J., Alexander-Bloch, A., Bagautdinova, J., Barch, D. M., Bassett, D. S., Davatzikos, C., Franco, A. R., Goldsmith, J., Gur, R. E., Gur, R. C., Hu, F., Jaskir, M., Kiar, G., **Keller, A. S.**, Larsen, B., Mackey, A. P., Milham, M. P., Roalf, D. R., Shafiei, G., Shinohara, R. T., Somerville, L. H., Weinstein, S. M., Yeatman, J. D., Cieslak, M., Rokem, A. & Satterthwaite, T. D. (2025). Two axes of white matter development. *bioRxiv*. Under Review at *Nature Communications*.

Ehmann, S., Sezer, I., **Keller, A. S.**, Treves, I. N. & Sacchet, M. D. (2025). Attention and meditative development: a review and synthesis of long-term meditators and outlook for the study of advanced meditation. Under Review at *NeuroImage*.

Warthen, K. G., **Keller, A. S.** & Williams, L. M. (2025). Relationship of behavioral drive to time-varying sub-network coherence in attention and reward neural networks. Under Review at *Brain Topography*.

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

Robinson, H.⁺, Dave, N.⁺, Barzilay, R., Wagner, A.⁺, Kells, N.⁺ & **Keller, A.S.** (2025). The effect of the exposome on developmental brain health and cognition. *Neuropsychopharmacology*.

Damme, K., Seidlitz, J. & **Keller, A.S.** (2025). Neurodevelopmental timing links stress and psychopathology. In Press at *JAMA Pediatrics*.

Lynn, A. & **Keller, A.S.** (2025). Attention Emerges from Regional Neural Computations and Selective Information Flow. *The Oxford Handbook of Infant Attention, Memory, and Learning Development*. In Press.

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.* (2025). Polygenic Risk Underlies Overall Psychopathology and Personalized Functional Brain Network Topography in ABCD. *JAMA Psychiatry*

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., Kishton, 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. (2025). Reproducible Biological Sex Differences in Personalized Functional Network Topography in Youth. *bioRxiv*. In Press at *British Journal of Psychiatry*

- Kang, K., Seidlitz, J., Bethlehem, R. A. I., Xiong, J., Jones, M. T., Mehta, K., **Keller, A.S.**, Tao, R., Randolph, A., Larsen, B., Tervo-Clemmens, B., Feczko, E., Miranda Dominguez, O., Nelson, S. M., Lifespan Brain Chart Consortium, 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*.
- Zhao, S., Su, H., Cong, J., Wen, X., Yang, H., Chen, P., Wu, G., Fan, Q., Ma, Y., Xu, X., Hu, C., Li, H., **Keller, A.S.**, Pines, A., Chen, R. & Cui, Z. (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/s41467-023-44087-0>
- 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., Saggar, 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

- February 2026. *The Noosa Workshop on Brain Function, Organisation and Behaviour*. Invited speaker. Noosa, Queensland, Australia.
- January 2026. *Smartphone Ownership in Youth is Associated with Poorer Cognition and Differences in Cortical Thickness*. Invited speaker: “Smartphones, Social Media, and Adolescent Brain, Behavior, and Physical Health: Leveraging Big Data and Novel Methods to Unravel Contributions of Technology to Health in the Digital Era.” American College of Neuropsychopharmacology (ACNP) Annual Meeting, Nassau, Bahamas.
- December 2025. Speaker: Kaidi Kang. *Improving replicability of brain-behavior association studies by leveraging study design features*. Invited Talk for an Organized Session on Statistics in Neuroscience, Computational and Methodological Statistics (CMStatistics), Birbeck, UK.
- November 2025. *Advancing Mental Health Equity: Synthesizing Research, Clinical Practice and Community Engagement on Delivering Inclusive Affirming Care*. Panel Discussant. Association for Behavioral and Cognitive Therapies (ABCT) Convention, New Orleans, LA.
- September 2025. *Designing investigator-led studies in the era of big data*. Invited Workshop Speaker. Flux Congress, Dublin, Ireland.
- September 2025. *Neural mechanisms of vision and visual attention across development*. Invited Symposium Co-Chair. Flux Congress, Dublin, Ireland.
- June 2025. *A personalized neuroscience approach for understanding attention and mental health in youth*. Department of Psychiatry Grand Rounds, UConn Health, Farmington, CT.

May 2025. *From many scanned brains to many brain scans: Leveraging large datasets with dense sampling for new insights in psychological science*. Invited Symposium Panel Discussant. Association for Psychological Science (APS), Washington, DC.

May 2025. *Reproducible sex differences in personalized functional brain network topography in youth*. Trends in Psychology Summit (TIPS). Oral Presentation. Harvard University, Cambridge, MA.

April 2025. *Reproducible sex differences in personalized functional brain network topography in youth*. Society of Biological Psychiatry (SOBP). Invited symposium talk. Toronto, Canada

March 2025. *Personalized Neuroscience: From precision brain mapping to precision psychiatry*. Cognitive Development and Neuroimaging Laboratory, Columbia University. New York, NY.

March 2025. *Precision neuroscience for studies of individual differences in youth environments and cognition*. Cognitive Neuroscience Society (CNS). Invited symposium talk. Boston, MA.

February 2025. *Personalized Neuroscience: From precision brain mapping to precision psychiatry*. Department of Psychology Clinical Current Works Series, Yale University. New Haven, CT.

February 2025. *Navigating mentor-mentee relationships and balancing responsibilities*. J-Term Workshop, University of Connecticut. Storrs, 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 (AIIM), 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

- Robinson, H.⁺, Dave, N.⁺, Barzilay, R.⁺, Wagner, A.⁺, Kells, N.⁺ & **Keller, A. S.** (2025). The effect of the exposome on developmental brain health and cognition. Flux Congress, Dublin, Ireland.
- Heller, C., Gell, M., Koirala, S., Tervo-Clemmens, B., **Keller, A. S.**, Barzilay, R., Moore, T. M. & Larsen, B. (2025). The role of menarche on internalizing symptoms in the ABCD dataset. Flux Congress, Dublin, Ireland.
- Berrian, N., **Keller, A. S.**, Chao, A., Stier, A. J., Kardan, O., Moore, T. M., Barzilay, R., Berman, M. G. & Rosenberg, M. D. (2025). Attention networks mediate the relationship between the exposome and multi-informant attention problems in youth. Flux Congress, Dublin, Ireland.
- Hillman, N., Weinstein, S., Bagautdinova, J., Sun, K. Y.⁺, Alexander-Bloch, A., **Keller, A. S.**, Satterthwaite, T. D., Shou, H. & Shinohara, R. T. (2025). Network enrichment testing using ordinal dominance curves. Organization for Human Brain Mapping (OHBM), Brisbane, Australia.
- Luo, A., Meisler, S., Sydnor, V. J., Alexander-Bloch, A., Bagautdinova, J., Barch, D., Bassett, D., Davatzikos, C., Franco, A. R., Goldsmith, J., Gur, R. E., Gur, R. C., Hu, F., Jaskir, M., Kiar, G., **Keller, A. S.**, Larsen, B., Mackey, A. P., Milham, M. P., Roalf, D., Shafiei, G., Shinohara, R. T., Somerville, L., Weinstein, S., Yeatman, J., Cieslak, M., Rokem, A. & Satterthwaite, T. D. (2025). Two axes of white matter development. Organization for Human Brain Mapping (OHBM), Brisbane, Australia.
- Sun, K. Y.⁺, Sha, Z., Jung, B., Bagautdinova, J., Almasy, L., Prer, S., **Keller, A. S.**, Gandal, M., Seidlitz, J., Satterthwaite, T. D. & Alexander-Bloch, A. (2025). Copy number variant risk scores are associated with personalized functional brain network topography. Organization for Human Brain Mapping (OHBM), Brisbane, Australia.
- Meisler, S., Cieslak, M., Radhakrishnan, H., Salo, T., Feczko, E., Weldon, K. B., Hendrickson, T. J., McCollum, R., Fayzulobekova, B., Pandhi, T., Moore, L. A., Avelar-Pereira, B., Bagautdinova, J., Caffarra, S., Chang, K., Cook, P. A., Gomez, T., Grotheer, M., Hagen, M. P., Huque, Z. M., Karipidis, I. I., **Keller, A. S.**, Kruper, J. A., Luo, A., Mehta, K., Mitchell, J. L., Pines, A. R., Roy, E. A., Stone, H., Sydnor, V. J., Yablonski, M., Yeatman, J., Rokem, A., Fair, D. A. & Satterthwaite, T. D. (2025). A quality-rated, analysis-ready release of 26,174 dMRI sessions from the ABCD Study. Organization for Human Brain Mapping (OHBM), Brisbane, Australia.
- Luo, A., Meisler, S., Sydnor, V. J., Alexander-Bloch, A., Bagautdinova, J., Barch, D., Bassett, D., Davatzikos, C., Franco, A., Goldsmith, J., Gur, R. E., Gur, R. C., Hu, F., Jaskir, M., Kiar, G., **Keller, A. S.**, Larsen, B., Mackey, A. P., Milham, M. P., Roalf, D. R., Shafiei, G., Shinohara, R. T., Somerville, L., Weinstein, S., Yeatman, J., Cieslak, M., Rokem, A. & Satterthwaite, T. D. (2025). Two axes of white matter development. Society of Biological Psychiatry (SOBP), Toronto, Canada.
- Robinson, H.⁺, Kells, N.⁺, Dave, N.⁺, Wagner, A.⁺ & **Keller, A. S.** (2025). Applied Cognition and Personalized Neuroscience Laboratory. Institute for the Brain and Cognitive Sciences (IBACS) End-Of-Year Event, Storrs, CT.
- Luo, A., Sydnor, V. J., Bagautdinova, J., Barch, D., Alexander-Bloch, A., Hu, F., Larsen, B., Franco, A., Jaskir, M., **Keller, A. S.**, Meisler, S., Milham, M. P., Roalf, D. R., Rokem, A., Shafiei, G., Shinohara, R. T., Yeatman, J., Yeh, F.-C., Cieslak, M. & Satterthwaite, T. D. (2024). Reproducible gradients of microstructural development along white matter tracts in youth. Flux Congress, Baltimore, MD.
- Sun, K. Y.⁺, Schmitt, J. E., Moore, T. M., Barzilay, R., Almasy, L., Schultz, L. M., Mackey, A. P., Kafadar, E., Sha, Z., Mallard, T. T., Cui, Z., Fair, D. A., Satterthwaite, T. D., **Keller, A. S.**^{*} & Alexander-Bloch, A.^{*} (2024). Polygenic risk underlies overall psychopathology and personalized functional brain network topography in ABCD. Flux Congress, Baltimore, MD.
- 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.

- 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., Kishton, 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. (2024). Reproducible Biological Sex Differences in Personalized Functional Network Topography in Youth. UConn Department of Psychological Sciences Poster Night, Storrs, CT.
- 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.* & **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., Taper, 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., Saggat, 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

Fall 2025	PSYC 5517: Human Neuroimaging , Instructor	<i>UConn</i>
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>

Guest Lessons

Fall 2025	Proseminar in Psychological Sciences - Personalized Neuroscience , Guest Lecturer	<i>UConn</i>
Sum. 2025	PSYC 2251: Cognitive Psychology - Attention , Guest Lecturer	<i>UConn</i>
Spring 2025	Proseminar in Educational Neuroscience - Personalized Neuroscience , Guest Lecturer	<i>UConn</i>
Spring 2025	PSYC 2501 Cognitive Psychology - Individual Differences , Guest Lecturer	<i>UConn</i>
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>

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>

Participation in Teacher Training

Spring 2025	HuskyCT Ultra Workshop , Center for Excellence in Teaching & Learning	<i>UConn</i>
Spring 2025	iClicker Workshop , Center for Excellence in Teaching & Learning	<i>UConn</i>
Spring 2024	Course Design Institute , Center for Teaching, & Learning and Innovation	<i>Penn</i>
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

Mentorship - Direct Supervision

Spring 2026	Amar Ojha , Postdoctoral Researcher	<i>UConn</i>
Fall 2025	Katarina Kalajzic , Undergraduate Research Assistant	<i>UConn</i>
2025-Pres	Caitlin Baten , Graduate Student	<i>UConn</i>
2025-Pres	Anna Wagner , Undergraduate Research Assistant	<i>UConn</i>
2025-Pres	Natalie Kells , Lab Manager	<i>UConn</i>
2024-Pres	Niyati Dave , Undergraduate Research Assistant	<i>UConn</i>
2024-Pres	Heather Robinson , Graduate Student	<i>UConn</i>
2022-Pres	Alisha Shetty , Undergraduate Research Assistant	<i>Penn</i>
2022-Pres	Kevin Sun , Graduate Student	<i>Penn</i>
2022-2024	Mārtiņš Gataviņš , Undergraduate Research Assistant	<i>Penn</i>
	<i>Post-Mentorship Position</i> , Post-Bacc. Research Assistant, University of Pennsylvania	
2022-2024	Kristin Murtha , Graduate Student	<i>Penn</i>
	<i>Post-Mentorship Position</i> , Same: Graduate Student, University of Pennsylvania	
2022-2023	Sabina London , Graduate Student	<i>Penn</i>
	<i>Post-Mentorship Position</i> , Same: Graduate Student, University of Pennsylvania	
2019-2021	Ruth Ling , Undergraduate Research Assistant	<i>Stanford</i>
	<i>Post-Mentorship Position</i> , Medical Student, Washington University	
2019-2021	Bailey Holt-Gosselin , Clinical Research Coordinator	<i>Stanford</i>
	<i>Post-Mentorship Position</i> , Neuroscience PhD Program, Yale University	
2018-2021	Jason Li , Undergraduate Research Assistant (AI for Mental Health)	<i>Stanford</i>
	<i>Post-Mentorship Position</i> , Computer Science Master's Program, Stanford University	

2018-2021 **Helen Qiu**, Undergraduate Research Assistant (AI for Mental Health)
Post-Mentorship Position, Computer Science Master's Program, Stanford University

Stanford

Graduate Committees

2025-Pres	Naomi Sellers , Dissertation Committee; <i>Primary Advisor: Dr. Emily Myers</i>	UConn
2025-Pres	Wesley Leong , Dissertation Committee; <i>Primary Advisor: Dr. Gerry Altmann</i>	UConn
2025-Pres	Jillian O'Malley , Master's Thesis Committee; <i>Primary Advisor: Dr. Fumiko Hoeft</i>	UConn
2025-Pres	Kaila Cote , Thesis Committee; <i>Primary Advisor: Dr. Jennifer Mozeiko</i>	UConn
2025-Pres	Hannah Mechtenberg , Dissertation Committee; <i>Primary Advisor: Dr. Emily Myers</i>	UConn
2025-Pres	Jie Luo , Dissertation Committee; <i>Primary Advisor: Dr. Fumiko Hoeft</i>	UConn
2024-Pres	Nathan Lautz , Dissertation Committee; <i>Primary Advisor: Dr. Eiling Yee</i>	UConn
2025	Wesley Leong , General Examination Committee; <i>Primary Advisor: Dr. Gerry Altmann</i>	UConn
2024	Jie Luo , General Exam Reader; <i>Primary Advisor: Dr. Fumiko Hoeft</i>	UConn

Academic Service & Outreach

Internal (UConn)

2024-Pres **UConn Institute for the Brain and Cognitive Sciences (IBACS)**, Chair, DEI Committee
2024-Pres **Mentoring Aspiring Graduate students & building Inclusive Community (MAGIC)**, Mentor
2024-Pres **UConn CNC-CT T32 Community Engagement Committee**, Faculty Advisor
2025 **UConn McNair Scholars Program**, Mock Interviewer

External

2025-Pres **Scientific Reports**, Editorial Board Member
2025-Pres **Flux Society**, Scientific Program Committee (Incoming Co-Chair: 2025-2026)
2025 **Flux Society**, Career Perspectives Panel
2025 **Penn Faculty Job Search Prep Camp**, STEM Perspectives Panelist
2023-Pres **Flux Society**, Diversity, Inclusion and Belonging Committee
2023 **Flux Society**, Dissertation Award Review Committee
2023-Pres **Society of Biological Psychiatry**, Justice, Equity, Diversity and Inclusion Committee
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 Women in STEM Symposium**, Career Development Panel
2022 **Flux Society**, Trainee Mentorship Program
2021 **Wu Tsai Neuroscience Seminar Speaker Selection Committee**, Committee Member
2021 **Stanford Neurosciences Program Director Selection Committee**, Student Representative
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
2017-2019 **Stanford Neurosciences Program Committee**, Student Representative
2019 **Stanford Community College Visit Day**, Volunteer
2018 **Stanford Mind, Brain, Computation and Technology Symposium**, Student Organizer
2017-2018 **Stanford Neurosciences Program**, Communications Representative
2016-2018 **Stanford SPLASH**, Instructor, Volunteer
2015-2016 **Brandeis Students to End Alzheimer's Disease**, Founder, Co-President

Journal Peer Review: Acta Neuropsychiatrica, Biological Psychiatry, Biological Psychiatry: Global Open Science, Biological Psychiatry: Cognitive Neuroscience & Neuroimaging, Cerebral Cortex, Cortex, Developmental Cognitive Neuroscience, eLife, Human Brain Mapping, Imaging Neuroscience, JAMA Psychiatry, Journal of the American Academy of Child and Adolescent Psychiatry, Journal of Child Psychology & Psychiatry, Network Neuroscience, NeuroImage, Neuropsychopharmacology, Nature, PNAS, PNAS Nexus, Psychological Medicine, Scientific Reports

Ad Hoc Grant Review: U.S. National Science Foundation, Swiss National Science Foundation, Israel Science Foundation

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