Zeynep Mevhibe Saygin

The Ohio State University
205 Psychology Bldg. 1835 Neil Ave
Columbus, OH 43210

saygin.3@osu.edu
zeynepsaygin.com

Education and Work Experience

The Ohio State University 2023-present
Associate Professor, Department of Psychology

The Ohio State University 2017-2023
Assistant Professor, Department of Psychology

The Ohio State University 2017-present
Faculty Member, Neuroscience Graduate Studies Program

The Ohio State University 2017-present
Faculty Member, Chronic Brain Injury Program

Massachusetts Institute of Technology 2012-2017
Postdoctoral Fellow, Advised by Nancy Kanwisher

Massachusetts General Hospital 2012-2017
Postdoctoral Fellow, Advised by Bruce Fischl

Massachusetts Institute of Technology 2007-2012
Ph.D. in Systems Neuroscience, Advised by John D.E. Gabrieli & Rebecca R. Saxe
Thesis: "*Structure-Function Relationships in Human Brain Development.*"

Children's Hospital Boston 2005-2007
Technical Assistant, Advised by Michael Rivkin

Brown University 2001-2005
B.Sc. in Neuroscience, Advised by David Sheinberg

Grants & Research Support

Active

4. Center for Cognitive & Brain Sciences at OSU Grant (2024-2026, $100,000). "Prenatal neural architecture of the linguistic mind." PI.

3. Clinical Translational Science Pilot Program Grant via NCATS UL1 mechanism (2024-2025, $50,000). "Perinatal neurobiological markers of cognitive outcome in normotensive and preeclampsia pregnancies." PI.

2. R01 HD110401 (2023-2028; $3.6M). "Understanding the neurodevelopmental effects of youth tackle football participation." MPI.

1. Women in Philanthropy Award, OSU (2023-2025; $35,000). "Neurobiology of pre-literacy development." PI.

Pending

2. R01 NICHD (2025-2030), subaward $760,852. "Nature, Nurture, and Neurophysiology: Revolutionizing Perinatal Medicine and Fetal Brain Health Via Wearables and intrauterine MRI." Site PI
1. R01 NICHD (2025-2030), subaward $760,852. "Digital health fingerprints in pregnancy: A window into maternal and fetal brain health." Site PI

Completed

11. President's Research Excellence Catalyst award (2022-2024; $199,990). "Brain Infrared Modulation of Pathways for Aging, Cognition, and movemenT (Brain IMPACT)." MPI.

10. Chronic Brain Injury Pilot Award (2021; $25,000). "Understanding the neurodevelopmental effects of football-related neurotrauma across first year of tackle football participation." MPI.

9. Chronic Brain Injury Pilot Award (2019; $25,000). "Effectiveness of a psychological intervention for children with post-concussion syndrome." MPI.

8. Chronic Brain Injury Pilot Award (2018; $24,750). "Longitudinal Assessment of Cognitive and Eye-related Symptoms in Youth Hockey Players - the LACES Youth Hockey Study." MPI.

7. OSU Equipment Grant for SCR (2018; $6295). MPI.

6. R01 NS109298 (2019-2024; subcontract budget $180,210/ year). "Human Networks for Behaviors related to the Expectation of Pain". Co-I.

5. FG-2018-10994. Alfred P. Sloan Research Fellow in Neuroscience (09/15/2018 - 08/30/2020; $65,000 annual research support). PI.

4. F32HD079169. NIH Postdoctoral National Research Award (01/01/2014-12/31/2016 $49,214 (Y1); $52,190 (Y2); $53,942 (Y3). PI.

3. MIT MINT Program Grant (2012-2013). "Mapping the anatomical connectivity of functionally-defined regions in the human brain using the new MGH Connectom scanner." MPI.

2. MIT Health Science and Technology Catalyst Fund (2010-2011). "Diffusion spectrum imaging in infants less than 1 year of age: a developmental network analysis of amgydala connectivity." PI.

1. MGH/MIT/Harvard Advanced Multimodal Neuroimaging Training Program, Predoctoral Fellow: (2009-2010). "Parcellating the human amygdala based on structural and functional connectivity." PI.

Trainee external grants

NRSA postdoctoral F31 fellowship to Adam Culiver (postdoctoral mentee). "Investigating the Developmental Consequences of Neurotrauma Exposure and Musculoskeletal Injury on Sensorimotor Network Connectivity in First-Year Youth Tackle Football Players." Pending.

K23 postdoctoral fellowship to Adam Culiver (postdoctoral mentee). "The Effects of Attentional Focus and Cross-Education on Brain Behavior following Anterior Cruciate Ligament Reconstruction." Pending.

NSF GRF to Kelly Hiersche (graduate student). "Understanding the selectivity, development, and plasticity of the Visual Word Form Area." Ongoing support.

NRSA- F31HD107961 to Fiona Molloy (graduate student). "Brain basis and neural circuitry of habit-like attention in infants and adults." Completed 2024.

Awards and Honors (selected)

President's Research Excellence Catalyst Award (2022-2024)
Alfred P. Sloan Research Fellow in Neuroscience (2018)
NIH Postdoctoral National Research Award (2014-2017)
Koch Institute Image Awards (2014)
Wellcome Trust Image Awards (2014)
MIT Postdoctoral Association Travel Award (2013)
McGovern Institute Neurotechnology Program (2012-2013)
Sheldon Razin Graduate Student Fellowship (2010-2011)
Human Brain Mapping Trainee Abstract Travel Award (2010)
Angus McDonald Award for Undergraduate Teaching (2010)
MIT Health Science and Technology Catalyst Fund (2010-2011)
MGH Advanced Multimodal Neuroimaging Training Program, Predoctoral Fellow (2009-2010)
Gordon Research Conference: Amygdala in Health & Disease Travel Award (2009)
Presidential Graduate Fellowship (2007-2008)

Peer-reviewed Publications

[+]Mentee; *Equal author contribution

34. "Pilot study comparing effects of infrared neuromodulation & transcranial magnetic stimulation using magnetic resonance imaging." [+]Bibb, S.A., [+]Yu, E.J., [+]Molloy, M.F., LaRocco J., [+]Resnick, P., Reeves, K., Phan, K. L., Krishna, S., Saygin, Z.M. (in review)

33. "Not just disgust: Seed-to-voxel insular connectivity distinguishes misophonia from disgust sensitivity and related clinical measures." [+]Hansen, H., Ferris, C.S., Leber, A.B., Saygin, Z.M. (in review)

32. "Application of Bayesian modeling to extract single trials from blockwise fMRI data in developmental neuroimaging: Neural signal reflects trial-by-trial working memory performance." [+]Schettini, E., [+]Molloy, F., Saygin, Z.M. (in review)

31. "Demystifying the Visual Word Form Area: Precision fMRI of Visual, Linguistic, and Attentional Properties of Ventral Temporal Cortex." [+]Li, J., [+]Hiersche, K., Saygin, Z.M. iScience (2024).

30. "Predicting High-level Visual Areas in the Absence of Task fMRI." [+]Molloy, F., Saygin, Z.M., Osher, D.E. Scientific Reports (2024).

29. "The language network is selective and distinct from other cognition in both function and connectivity in early childhood." [+]Hiersche, K., [+]Schettini, E., [+]Li, J., Saygin, Z.M. Human Brain Mapping (2024).

28. "The effect of misophonia on cognitive and social judgments." [+]Hansen, H., Leber, A., Saygin, Z.M. (2024). PlosOne.

27. “Effect of Premature Birth on Adolescent Brain Network Organization.” [+]Molloy, F., [+]Yu, E., Mattson, W., Hoskinson, K., Taylor, G., Nelson, E., Saygin Z.M. (2023). Brain Connectivity.

26. “The Art, Science, and Secrets of Scanning Young Children.” Spann MN, Wisnowski JL, Smyser CD, et al. (2023) Biol Psychiatry.

25. “Individual variability in performance reflects selectivity of the multiple demand network among children and adults.” [+]Schettini, E., [+]Hiersche, K., Saygin, Z.M. (2023). Journal of Neuroscience.

24. “Intact reading ability despite lacking a canonical visual word form area in an individual born without the left superior temporal lobe.” [+]Li J., Kean H., Fedorenko E., Saygin Z. (2023). Cognitive Neuropsychology.

23. “Neural Evidence for Non-Orofacial Triggers in Mild Misophonia.” [+]Hansen H.A., [+]Stefancin P., Leber A.B., Saygin Z.M. (2022). Frontiers in Neuroscience.

22. “Individual Variability in Functional Organization of the Neonatal Brain” [+]Molloy, F., Saygin Z. (2022). NeuroImage.

21. “What sound sources trigger misophonia? Not just chewing and breathing.” [+]Hansen, H., Leber, A., Saygin, Z.M. (2021). Journal of Clinical Psychology.

20. “Atypical age-related changes in the structure of the mentalizing network in children with refractory focal epilepsy.” Hung A., Morningstar M., Mattson W.I., Saygin Z.M., Nelson, E. (2021). Epilepsy Research.

19. “The intrinsic neonatal hippocampal network: rsfMRI findings”. [+]Howell, A., Osher, D., [+]Li, J., Saygin Z.M. (2020). Journal of Neurophysiology.

18. “Innate connectivity patterns drive the development of the visual word form area". [+]Li J., Osher D., [+]Hansen H., Saygin Z. M. (2020). Scientific Reports. 10, 18039.

17. “Adults vs. neonates: Differentiation of functional connectivity between the basolateral amygdala and occipitotemporal cortex.“ [+]Hansen H., [+]Li, J., Saygin Z. M. (2020) PLoS One. 15(10): e0237204.

16. “Amygdala nuclei volume and shape in military veterans with posttraumatic stress disorder.” Morey RA, Clarke EC, Haswell CC, Phillips RD, Clausen AN, Mufford MS, Saygin Z, Wagner HR, LaBar KS. (2019). Biological Psychiatry: Cognitive Neuroscience and Neuroimaging.

15. "Facephenes and rainbows: Causal evidence for functional and anatomical specificity of face and color processing in the human brain." Schalk G., Kapeller C., Guger C., Ogawa H., Hiroshima S., Lafer-Sousa R., Saygin Z., Kamada K., and Kanwisher N. (2017). PNAS

14. "Integration and Segregation of Default Mode Network Resting- state Functional Connectivity in Transition-age Males with High- functioning Autism Spectrum Disorder: A Proof of Concept Study." Joshi G., Anteraper S., Patil K., Semwal M., Goldin R., Furtak S., Chai X., Saygin Z., Gabrieli J., Biederman J., and Whitfield-Gabrieli S. (2017). Brain Connectivity

13. "Impaired frontal-limbic white matter maturation in children at high risk for major depression." [+]Hung Y., Saygin Z., Biederman J., Hirshfeld-Becker D., Uchida M., Doehrmann O., Han M., Chai J., Kenworthy T., Yarmak P., Gaillard S., Whitfield-Gabrieli S., & Gabrieli J.D.E. (2017) Cerebral Cortex

12. "High-resolution magnetic resonance imaging reveals nuclei of the human amygdala: manual segmentation to automatic atlas." Saygin Z. M., Kliemann D., Iglesias E., van der Kouwe, A.J.W., Boyd E., Reuter M., Stevens A., Van Leemput K., McKee A., Frosch M.P, Fischl B., Augustinack J. (2017) NeuroImage

11. "Connectivity precedes function in the development of the visual word form area." Saygin, Z.M., Osher D.E., Norton E. S., Youssoufian D.A., Beach S., Feather J., Gaab, N., Gabrieli, J., Kanwisher N. (2016) Nature Neuroscience, doi:10.1038/nn.4354.

10. "Brain Connectomics Predict Response to Treatment in Social Anxiety Disorder." Whitfield-Gabrieli S., Ghosh S., Nieto-Castanon A., Saygin Z., Doehrmann O., Chai J., Reynolds G., Hofmann S., Pollack M., Gabrieli J. (2015). Molecular Psychiatry, doi:10.1038/mp.2015.109.

9. "Structural connectivity fingerprints predict cortical selectivity for visual categories." Osher D., Saxe R., Koldewyn K., Gabrieli, J., Kanwisher N., Saygin Z. (2015). Cerebral Cortex, doi: 10.1093/cercor/bhu303.

8. "Structural connectivity of the developing human amygdala". Saygin Z., Osher D., Koldewyn K., Martin R., Finn A., Saxe R., Gabrieli J., Sheridan M. (2015). PloS ONE, 10(4): e0125170. doi:10.1371/journal.pone.0125170.

7. "Altered Resting-State Functional Connectivity of the Frontal-Striatal Reward System in Social Anxiety Disorder." Manning J., Reynolds G., Saygin Z., Hofmann S., Pollack M., Gabrieli J., Whitfield-Gabrieli S. (2015) PLoS ONE, 10(4): e0125286. doi:10.1371/journal.pone.0125286.

6. "Tracking the Roots of Reading Ability: White Matter Volume and Integrity Correlate with Phonological Awareness in Prereading and Early-Reading Kindergarten Children." Saygin Z., Norton E., Osher D., Beach S., Cyr A., Ozranov-Palchik O., Yendiki A., Fischl B., Gaab N., Gabrieli J.D.E. (2013). Journal of Neuroscience, 33(33), 13251–13258.

5. "Anatomical connectivity patterns predict face-selectivity in the fusiform gyrus." *Saygin Z., *Osher D., Koldewyn K., Reynolds G., Gabrieli J., & Saxe R. (2012). Nature Neuroscience, 15(2), 321-327.

4. "Predicting treatment response in social anxiety disorder from functional magnetic resonance imaging." Doehrmann O., Ghosh S., Polli F., Reynolds G., Horn, F., Keshavan A., Triantafyllou C., Saygin Z., Whitfield-Gabrieli S., Hofmann S., Pollack M., Gabrieli J. (2012). JAMA Psychiatry, 70(1), 87-97.

3. "Connectivity-based segmentation of human amygdala nuclei using probabilistic tractography." *Saygin Z.,* Osher D., Augustinack J., Fischl B., & Gabrieli J. (2011). NeuroImage, 56(3), 1353-1361.

2. "Neuroimaging predictors of treatment response in social phobia." Pollack, M., Doehrmann, O., Ghosh, S., Polli, F., Reynolds, G., Horn, F., Keshavan, A., Triantafyllou, C., Saygin, Z., Whitfield-Gabrieli, S., Hofmann, S., Gabrieli, J. (2013). European Neuropsychopharmacology, 24 (S-142-S143).

1. "Use of fMRI to identify regional activation of cerebral cortex involved in successful performance of an incidental verbal memory task by children". Maril, A., Davis, P. E., Saygin, Z. M., Koo, J., Mulkern, R., V., Waber, D. P., Rivkin, M. J. (2006). Annals of Neurology, 60, S141.

Manuscripts in Preparation

"Development and functional relevance of word-selectivity and laterality." [+]DiRubio, L., [+]Li, J., [+]Hiersche, K., Saygin, Z.M. (in preparation)

"Functional organization, specificity, and laterality of language and theory of mind in young children." [+]Hiersche, K., Saygin, Z.M. (in preparation)

"Unraveling developmental variability in functional selectivity and spatial localization of high-level visual regions." [+]Hiersche, K., [+]Quatrale, A., Saygin, Z.M. (in preparation)

"Asymmetries in sturcutre and connectivity precede functional specialization for language in the infant brain." [+]Hiersche, K., Saygin, Z.M. (in preparation)

"The role of longitudinal changes in connectivity and function in the development of word selectivity." [+]Li, J., Saygin, Z.M. (in preparation)

"Investigating Visual and Auditory Language Reponses in the Ventral Temporal Cortex of Pre-Reading Children: a Multivariate Analysis." [+]Rydel, L., [+]Hiersche, K., Saygin, Z.M. (in preparation)

"Sulcal depth asymmetries and functional consequences across infancy and early childhood." ([+]Bradley, L., [+]Hiersche, K., Saygin, Z.M. (in preparation)

"Relationship between broad-scale functional connectivity and cognitive domains across individuals." [+]Hiersche, K., Saygin Z.M., Osher, D.E. (in preparation)

"Brain-behavior associations of resting-state functional networks among youth with externalizing spectrum disorders" [+]Schettini, E., Saygin, Z.M. (in preparation)

Refereed Conference Proceedings and Presentations

"Examining Developmental Variability in Functional Selectivity and Spatial Location of High-Level Visual Regions." Kelly J. Hiersche, Anna L. Quatrale, Saygin, Z.M. CCBBI Research Day (December 2024) *Best Oral Presentation Award

"Investigating Visual and Auditory Language Reponses in the Ventral Temporal Cortex of Pre-Reading Children: A Multivariate Analysis." Lauren Rydel, Kelly Hiersche, Saygin, Z.M. CCBBI Research Day (December 2024) *Best Poster Presentation Award

"Examining structural and functional changes within the multiple demand network following a season of youth tackle football." Nii-Ayi Aryeetey, Kelly Hiersche, Jin Li, Jeff Pan, Ginger Yang, Sean Rose, James Onate, Jaclyn Caccese, Saygin, Z.M. CCBBI Research Day (December 2024)

"Resting state functional connectivity predicts individual differences in negative urgency in youth." Sophia A. Bibb, Saygin, Z.M. CCBBI Research Day (December 2024)

"Interhemispheric Differences in Sulcal Depth Across Development." Laura Bradley, Kelly Hiersche, Anna Quatrale, Saygin, Z.M. CCBBI Research Day (December 2024)

"Development of Visual Word Form Area (VWFA) Functional Laterality During Early Childhood and Relevance for Reading Behavior." Leah DiRubio, Jin Li, Saygin, Z.M. CCBBI Research Day (December 2024)

"White Matter and Cognitive Changes due to an Initial Season of Tackle Football." Mei Jira, Saygin, Z.M. CCBBI Research Day (December 2024)

"Fetal structural and functional MRI scanning: experiences, challenges, and future development" Xinnan Wang, Kelly Hiersche, Anna Quatrale, Elizabeth Sponseller, Rachael Holt, Saygin, Z.M. CCBBI Research Day (December 2024)

"Examining the Functional Organization, Specificity, and Laterality of Language and Theory of Mind." Kelly Hiersche, Saygin, Z.M. Flux Congress (September 2024) *Graduate Student Conference Presentation Award

"Unraveling Developmental Variability in Functional Selectivity and Spatial Localization of High-Level Visual Regions of the Ventral Temporal Cortex." Anna Quatrale, Kelly Hiersche, Saygin, Z.M. Flux Congress (September 2024)

"Studying Gray Matter Selectivity and White Matter Integrity Changes in Reading and Working Memory Networks Due to Repetitive Head Impact in Children." Nii-Ayi Aryeetey, Kelly Hiersche, Jeff Pan, James Onate, Ginger Yang, Sean Rose, Jaclyn Caccese, Saygin, Z.M. Flux Congress (September 2024) *CBI Travel Award

"Neural Factors that Contribute to the Development of Visual Word Form Area (VWFA) Laterality During Early Childhood and Relevance for Reading Behavior." Leah DiRubio, Jin Li, Saygin, Z.M. Flux Congress (September 2024)

"Neural development of language and speech in infants and toddlers." Hiersche, K.J., & Saygin, Z.M. Organization for Human Brain Mapping. (June 2024)

"Inter-rater reliability between two raters for repetitive head impact counts in youth tackle football." Doshi, D., Culiver, A., DeAngelo, S., Shoaf, N., Tracy, R., Lickovitch, J., Le Flao, E., Smith, C., Pan, J., Yang G., Rose, S., Onate, J., Saygin, Z.M., Caccese, J. American College of Sports Medicine conference (May 2024)

"Repetitive head impact exposure differences based on four data cleaning methods." DeAngelo, S., Culiver, A., Shoaf, N., Doshi, D., Tracy, R., Lickovitch, J., Le Flao, E., Smith, C., Pan, J., Yang G., Rose, S., Onate, J., Saygin, Z.M., Caccese, J. American College of Sports Medicine conference (May 2024)

"Does Neck Strength Predict Repetitive Head Impacts in Youth Football Players?" Culiver, A., Smith, C., DeAngelo, S., Tracy, R., Shoaf, N., Onate, J., Saygin, Z.M., Caccese, J. American College of Sports Medicine conference (May 2024)

"Examining the role of the arcuate fasciculus on reading development by studying repetitive head impact." Aryeetey, N., Hiersche, K., Pan, J., Onate, J., Yang, G., Rose, S., Caccese, J., Saygin, Z.M. Vision Sciences Society Annual Meeting. (May 2024)

"The emergence of VWFA laterality: examining the role of white matter connectivity in early childhood." Li, J., DiRubio, L., Saygin, Z.M. Vision Sciences Society Annual Meeting. (May 2024)

"Examining Variability of High-Level Visual Categories Across Development." Hiersche, K.J., Quatrale, A., Saygin, Z.M. Vision Sciences Society Annual Meeting. (May 2024)

"Sex Differences in the Relationship Between Internalizing Symptoms and Feelings of Belongingness." Razan Mirghani, Elana Schettini, Saygin, Z. M. Spring Undergraduate Research Festival. (April 2024)

"The asymmetrical brain: the development and behavioral contributions of laterality of the Visual Word Form Area." DiRubio, L. G., Li, J., Saygin, Z. M. Spring Undergraduate Research Festival. (April 2024)

"ADHD Symptom Severity and Neural Reward Processing in Children." Divya Gopal, Elana Schettini, Saygin, Z.M. Spring Undergraduate Research Festival. (April 2024)

"Not just disgust: Network-based and seed-to-voxel insular connectivity with the insula distinguishes misophonia from disgust sensitivity and related clinical measures." Hansen H.A., Ferris C.R., Saygin. Z.M. Cognitive Neuroscience Society (April 2024)

"Infrared Modulation of Motor Cortex and Related Pathways." Yu, E., Molloy, F., LaRocco, J., Stefancin, T., Reeves, K., Phan, K.L, Krishna, S., Saygin, Z.M. Denman Undergraduate Research Forum (March 2024).

"ADHD Symptom Severity and Neural Reward Processing in Children." Gopal, D., Schettini, E., Saygin, Z.M. Denman Undergraduate Research Forum (March 2024) *2nd Place Award

"Examining the role of the arcuate fasciculus on reading development by studying repetitive head impact." Nii-Ayi Aryeetey, Helly Hiersche, Jin Li, Jeff Pan, Ginger Yang, Sean Rose, James Onate, Jaclyn Caccese, Saygin, Z.M. Chronic Brain Injury Research Day (March 2024)

"The relationship among neck strength, development and head impacts sustained in youth tackle football players."Adam Culiver, Carly Smith, Sam deAngelo, Ryan Tracy, James Onate, Saygin, Z.M., Caccese, J. Chronic Brain Injury Research Day (March 2024)

"Examining Variability of High-Level Visual Categories Across Development." Anna Quatrale, Kelly Hiersche, Jaclyn Caccese, Saygin, Z.M. Chronic Brain Injury Research Day (March 2024)

"Infrared Modulation of Motor Cortex and Related Pathways." Yu, E., Molloy, F., LaRocco, J., Stefancin, T., Reeves, K., Phan, K.L, Krishna, S., Saygin, Z.M. Chronic Brain Injury Research Day (March 2024).

"Relationship between broad-scale functional connectivity and cognitive domains across individuals." Mwesigye, A., Hiersche, K., Saygin, Z.M., Osher, D.E., Poster at CCBBI Research Day (Dec. 2023)
*First prize poster award

“Neural development of language and speech in infants and toddlers.” Hiersche, K., Saygin, Z.M. Talk at CCBBI Research Day (Dec. 2023)

“Feelings of Belongingness moderate the relationship between neural selectivity to cognitive demand and internalizing behaviors.” Mirghani, R., Schettini, E., Saygin, Z.M. Poster at CCBBI Research Day (Dec. 2023)

“White Matter Connectivity of FFA and VWFA to Higher-Level Cortex Involved in Language and Theory of Mind.” DiRubio, L., Li, J., Saygin, Z.M. Poster at CCBBI Research Day (Dec. 2023)

“ADHD Symptom Severity and Neural Reward Processing in Children.” Gopal, D., Schettini, E., Saygin, Z.M. Poster at CCBBI Research Day (Dec. 2023)

"How reading acquisition changes the landscape of the function within the visual word form area". Li, J., Resnick, P.S., Saygin, Z.M. Vision Sciences Society Annual Meeting. (May 2023).

"The functional profile of the ventrotemporal cortex to high-level vision, language, and attention". Hiersche, K.J., Li, J., Saygin, Z.M. Vision Sciences Society Annual Meeting. (May 2023).
*VSS Travel award

“Neural evidence for non-orofacial triggers in mild misophonia”. Hansen, H., Saygin, Z.M. OHBM. (July 2023).

"The transmodal language network includes a basal temporal region with visual word-form selectivity". Salvo, J.J., Lakshman, M., Holubecki, A.M., Saygin, Z.M., Mesulam, M.M., Braga, R.M. Talk at OHBM. (July 2023).

“Predicting category-selective regions of interest using functional connectivity”. Molloy, F.M., Saygin, Z.M., Osher, D.E. OBHM. (July 2023).

“Examining modularity in the superior temporal sulcus in young children”. Hiersche, K.J., Saygin, Z.M. OHBM. (July 2023).

“The visual word form area is indeed visual: precision fMRI with 4 tasks to characterize specificity. Li, J., Hiersche, K., Saygin, Z.M. OHBM. (July 2023)

“Bayesian modeling to extract single trials from blockwise fMRI data in developmental neuroimaging”. Schettini, E. Saygin, Z.M. Organization for Human Brain Mapping (OHBM). (July 2023).

“Curation of FOAMS: a Free Open-Access Misophonia Stimuli Database”. Orloff, D., Benesch, D., Hansen, H. Cognitive and Brain Sciences Undergraduate Research Poster Session. (2023).

"The effect of repetitive neurotrauma on development". Dalton, B.K., Hiersche, K.J., Schettini, E., Caccese, J.B., Saygin, Z.M. Chronic Brain Injury research day (2023).

"The effect of repetitive neurotrauma on development". Dalton, B.K., Hiersche, K.J., Schettini, E., Caccese, J.B., Saygin, Z.M. Center for Cognitive and Brain Sciences Undergraduate Research Poster Session (2023).

"Relationship between brain response to language tasks and performance on behavioral metrics in children". Mwesigye, A., Hiersche, K.J., Saygin, Z.M.

*2nd place winner at Center for Cognitive and Brain Sciences CogFest. (2023)

"The transmodal distributed language network includes an inferior temporal region that shows selectivity for visual word-forms". Salvo, J.J., Lakshman, M., Holubecki, A.M., Saygin, Z.M., Braga, R.M. Poster at Cognitive Neuroscience Society. (2023).

"Repetitive Head Impacts in Youth Tackle Football: First Year Athletes Compared to Experienced Athletes". McPherson, C., Smith, C.R., Saygin, Z.M., Caccese, J.B. American College of Sports Medicine Annual Meeting. (2023).

"Identifying visual brain regions in the absence of task fMRI". Molloy, F.M., Saygin, Z.M., Osher, D.E. Talk at Center for Cognitive and Behavioral Brain Imaging (CCBBI) research day. (Dec. 2022).

*1st place oral presentation award

"Neural Evidence for Non-orofacial Triggers in Mild Misophonia." Hansen, H., Stefancin, P., Leber, A.B., Saygin, Z.M. Talk at Center for Cognitive and Behavioral Brain Imaging (CCBBI) research day. (Dec. 2022).

"Modulating the Activation of Motor and Reward Centers with Light." Yu, E.J., Molloy, M.F., Sanjay, K. Phan, L., Reeves, K., Saygin, Z.M. Center for Cognitive and Behavioral Brain Imaging (CCBBI) research day. (Dec. 2022).

"Episodic Memory Differences Following a Single Season of Youth Tackle Football." Stefancin, P., Caccese, J.B., Saygin, Z.M. Center for Cognitive and Behavioral Brain Imaging (CCBBI) research day. (Dec. 2022).

"The Effect of Repetitive Neurotrauma on Development." Dalton, B.K., Hiersche, K., Schettini, E., Caccese, J.B., Saygin, Z.M. Center for Cognitive and Behavioral Brain Imaging (CCBBI) research day. (Dec. 2022).

"The Development of Language and Social Cognition in Young Children." Hiersche, K., Saygin, Z.M. Center for Cognitive and Behavioral Brain Imaging (CCBBI) research day. (Dec. 2022).

"Demystifying the myth of the visual word form area." Li, J., Hiersche, K., Stefancin, T., Saygin, Z.M. Talk at Center for Cognitive and Brain Sciences Retreat (Oct. 2022).

"Neural evidence for non-orofacial triggers in mild misophonia." Hansen, H., Stefancin, P., Leber, A.B., Saygin, Z.M. Talk at Center for Cognitive and Brain Sciences Retreat (Oct. 2022).

"Examining functional brain changes and emergent literacy gains of low-income preschoolers after a soccer-based literacy intervention." Hiersche, K., Thomas, L., Dynia J., Saygin, Z.M. Society for Research on Educational Effectiveness (SREE) Conference. From Reckoning to Racial Justice: Centering Underserved Communities in Research on Educational Effectiveness (2022).

"Head Impact Magnitude and Sensorimotor Processing in Youth Tackle Football Participants." Smith, C., Edwards, G.C., Saygin, Z.M., Caccese, J.B. American Physical Therapy Association Conference. (2022).

"Identifying visual brain regions in the absence task fMRI." Osher, D.E., Saygin, Z. M. Vision Science Society Annual meeting. (2022).

"The selectivity and development of the visual word form area and frontotemporal language network in pre-readers and beginning readers. " Hiersche KJ., Li J., Saygin, ZM. Vision Sciences Society Annual Meeting. (2022).
*Chronic Brain Injury travel award

"Development and functional relevance of visual word-selectivity and laterality." Li, J., Stefancin, P., Saygin, Z. M. Vision Science Society Annual meeting. (2022).

"Comparison of selectivity of Multiple Demand network between children and adults." Schettini, E., Hiersche, K.J., Saygin, Z.M. Cognitive Neuroscience Society Annual Meeting. (2022).
*CNS travel award

"The selectivity and development of the visual word form area and longitudinal development of the frontotemporal language network in pre-readers and beginning readers." Hiersche KJ., Li J., Saygin, ZM. Chronic Brain Injury Research Day. (2022).

"Neural implications of the first season of tackle football." Stefancin P., Caccese JB. Saygin, ZM. Chronic Brain Injury Research Day. (2022).

"Location of Impacts Affects Head Impact Magnitude In Youth Football." Smith C., Edwards G., Saygin, ZM, Caccese JB. Chronic Brain Injury Research Day. (2022).

"Sensorimotor Processing Following Participation in Youth Tackle Football." Edwards G., Smith C., Saygin, ZM, Caccese JB. Chronic Brain Injury Research Day. (2022).

"The selectivity and development of the frontotemporal language network in early childhood" Hiersche, K., Saygin, Z.M. Center for Cognitive and Behavioral Brain Imaging (CCBBI) research day. (2021).

"Development and functional relevance of word-selectivity and laterality" Li, J., Stefancin, P., Saygin, Z.M. Center for Cognitive and Behavioral Brain Imaging (CCBBI) research day. (2021).

"Selectivity of the Multiple Demand network" Schettini, E., Saygin, Z.M. Center for Cognitive and Behavioral Brain Imaging (CCBBI) research day. (2021).

"Exploring neural origins of misophonia using resting-state connectivity." Hansen, H. A., Leber, A. B., Saygin, Z.M. CCBBI research day. (2021).

"Characterizing the Effect of Premature Birth on Adolescent Brain Network Organization" Yu,E., Molloy, F., Mattson, W., Taylor, G., Nelson, E., & Saygin, Z.M. CCBBI research day. (2021).

"Development of Phonemic Articulation" Gokcen, Y., Stefancin, P., Saygin, Z.M. Center for Cognitive and Behavioral Brain Imaging (CCBBI) research day. (2021).

"Innate organization of the human brain." Molloy, M.F. and Saygin, Z.M. Vision Sciences Society. (2021).
*VSS travel award

"Functional reorganization of the Visual Word Form Area in an individual born without the left superior temporal lobe." Li, J., Fedorenko, E., Saygin, Z. M. Organization for Human Brain Mapping (2021).

"Innate organization of the human brain." Molloy, M.F. and Saygin, Z.M. Chronic Brain Injury (CBI) Research Day. (2021) [poster and blitz talk]

"Functional reorganization of the Visual Word Form Area in an individual born without the left superior temporal lobe." Li, J., Fedorenko, E., Saygin, Z. M. Chronic Brain Injury Research Day (2021).

"Adults vs. neonates: Differentiation of functional connectivity between the basolateral amygdala and occipitotemporal cortex." Hansen, H. A., Li, J., Saygin, Z. M. 35th Annual Edward F. Hayes Graduate Research Forum (2021)
*2nd place poster award

"Cortical selectivity driven by connectivity: innate connectivity patterns of the visual word form area." Z.M. Saygin. Cognitive Neuroscience Society, Symposium (2020).

"Adults vs. neonates: Differentiation of functional connectivity between amygdala subnuclei and occipitotemporal cortex." H. Hansen, J. Li, Z.M. Saygin. Cognitive Neuroscience Society (2020).
*Travel award

"The developmental trajectory of the domain-general cortex." A. Howell, D. Osher, J. Li, Z.M. Saygin. Cognitive Neuroscience Society (2020).

"Innate connectivity patterns of the visual word form area." J. Li, D. E. Osher, H. A. Hansen, A. L. Howell, Z. M. Saygin. Society for Neuroscience, Nanosymposium (2019).

"Predicting pain regions in the cingulate cortex using functional connectivity." Flanagan, J., Z. M. Saygin, Lenz, F., D. E. Osher. Center for Cognitive Behavioral and Brain Sciences (CCBBI) Research Day (2019).

"The Developmental Trajectory of the Domain-General Cortex." Howell, A.L., Osher, D.E., Li, J, Saygin, Z.M. Center for Cognitive Behavioral and Brain Sciences (CCBBI) Research Day (2019).

Li, J., Osher, D. E., Hansen, H. A., Saygin, Z. M. "Cortical selectivity driven by connectivity: Innate connectivity patterns of the visual word form area." Center for Cognitive Behavioral and Brain Imaging Research Day. (2019). Oral Presentation. *1st place award for oral presentations.

Hansen, H., Li, J., Saygin, Z. M. "Adults vs. neonates: Differentiation of functional connectivity between the amygdala subnuclei and occipitotemporal cortex." Center for Cognitive and Behavioral Brain Imaging Research Day. Poster Presentation. (2019).

"The intrinsic neonatal hippocampal network: rsfMRI findings." A. L. Howell, D. E. Osher, J. Li, Z. M. Saygin. Society for Neuroscience (2019).

"The connectivity fingerprinting toolbox." D. E. Osher, Z.M. Saygin. Society for Neuroscience, Nanosymposium (2019).

"Innate connectivity patterns of the visual word form area." Li, J., Osher, D. E., Hansen, H. A., Saygin, Z. M. Vision Sciences Society (2019).

"Connectivity Fingerprints for the Visual Brain and Behavior." Osher, D.E., Saygin. Z.M. Vision Sciences Society. (2019).

"Developmental changes in connectivity between the amygdala subnuclei and visual regions." Hansen, H., Saygin, Z.M. Vision Sciences Society. (2019).

"Predicting individual reading ability based on anatomical and functional neural connectivity." Nabb, C., Hansen, H., Petrill, S., Saygin, Z.M. Vision Sciences Society. (2019).

" Longitudinal MRI in Youth Hockey Players: The LACES Youth Hockey Study". Rhodes, Hartwick, Saygin Z.M. Chronic Brain Injury Research Day, OSU (2019).

"Developmental changes in connectivity between the amygdala subnuclei and ventral visual cortex." Hansen H., Saygin Z.M., Talk and Poster at the Cognitive Brain Injury Research Day, OSU (2019).

"Innate connectivity patterns of the visual and non-visual brain." Li, J., Osher, D. E., Howell, A. L. Saygin, Z. M. Chronic Brain Injury Research Day, OSU (2019).

"Predicting individual reading ability based on anatomical and functional neural connectivity." Nabb, C., Hansen, H., Petrill, S., Saygin Z.M. Denman Undergraduate Research Forum (Denman award winner), The Ohio State University. (2019).

"Connectivity between visual and language systems in neonatal and adults brain." Li J., Rhodes, M.R., Saygin Z.M. Statewide Users Group Conference, Ohio Supercomputer Center. (2018).

"Adults vs. kids: Changes in connectivity between the amygdala subnuclei and occipitotemporal cortex." Hansen, H.A., Saygin, Z.M. Society for Neuroscience. (2018).
*Chronic Brain Injury travel award

"Using the Ohio Supercomputer cluster to measure developmental changes in connectivity between the amygdala subnuclei and occipitotemporal cortex." Hansen, H.A., Saygin, Z.M. Ohio Supercomputer Center Statewide Users Group conference. (2018).
*2nd place poster award

"Functional Connectivity of the Infant Hippocampus." Howell, A.L., Saygin, Z.M. Ohio Supercomputer Center Statewide Users Group conference. (2018).

"Exploring the development of high-level visual connectivity in infants". Rhodes M.R. & Saygin Z.M. Poster presentation at the Ohio Supercomputer Center Statewide Users Group (SUG) conference, Columbus, OH. (2018).

"Predicting individual reading ability based on anatomical and functional neural connectivity." Nabb, C., Hansen, H., Petrill, S., Saygin Z.M. Ohio Supercomputer Center Statewide Users Group Conference. (2018).

"Adults vs. kids: Changes in connectivity between the amygdala subnuclei and occipitotemporal cortex." Hansen, H.A., Saygin, Z.M. Center for Cognitive and Brain Sciences retreat. (2018).

"Adults vs. kids: Changes in connectivity between the amygdala subnuclei and occipitotemporal cortex." Hansen, H.A., Saygin, Z.M. Emory Mechanisms of Learning Forum. (2018).

"Neonatal brain organization and connectivity". Rhodes M.R. & Saygin Z.M.. Poster presentation at the Center for Cognitive and Brain Sciences Fall Retreat, Mt. Sterling, OH. (2018).

Norton E.S., Saygin Z.M., Beach S., Ozernov-Palchik O., Gaab N., Gabrieli J.D.E. (2017). The Utility of EEG and MRI Brain Measures for Predicting Future Reading Difficulties. Society for the Scientific Study of Reading.

Norton, E. S., Beach, S. D., Saygin, Z. M., Ozranov-Palchik, O., Park, A., Robinson, S., Gaab, N., & Gabrieli, J. D. E. (2016). Brain measures identify which kindergartners at risk for reading difficulties go on to develop dyslexia. Society for the Scientific Study of Reading.

"Connectivity precedes function in the development of the visual word form area." Saygin Z.M, Osher D.E., Norton E. S., Youssoufian D.A., Beach S., Feather J., Gaab, N., Gabrieli, J., Kanwisher N. Society for Neuroscience. (2016).

"Connectivity precedes function in the development of the visual word form area." Kanwisher N., Osher D.E., Norton E. S., Youssoufian D.A., Beach S., Feather J., Gaab, N., Gabrieli, J., Saygin Z.M. Vision Sciences Society. (2016).

"Function and connectivity of the VWFA and FFA." Saygin Z.M., Scott T., Feather J., Fedorenko E., Kanwisher, N. Organization for Human Brain Mapping (2015).

"COMA: A registration approach specifically for subcortical structures." Osher D., Saygin Z., Tobyne S., Somers D. Organization for Human Brain Mapping (2015).

"The VWFA and FFA have sharply contrasting functional selectivities and patterns of connectivity." Saygin Z.M., Scott T., Feather J., Fedorenko E., Kanwisher, N. Journal of Vision 15(12):914 DOI: 10.1167/15.12.914

"Structural and functional connectivity fingerprints for face, body, scene, and object perception." Saygin, Z.M., Kanwisher, N. (2014). Journal of Vision 14(10): 603; doi:10.1167/14.10.603

"Structural and functional connectivity fingerprints for face, body, scene, and object perception." Saygin Z.M., Kanwisher, N. Brain Connectivity (2014).

"Words and Faces: The relation of the Visual Word Form Area and Fusiform Face Area." Youssoufian, D.A., Scott, T., Kanwisher, N., Saygin, Z.M. MIT (2014).

"Structural and functional connectivity fingerprints for face perception." Saygin, Z.M., Kanwisher, N. Cognitive Neuroscience Society (2014).

"Linking reading abilities with brain structure and function: The ERP mismatch negativity response, left arcuate fasciculus structure, and reading-related skills in kindergarten and 1st grade". Norton E., Beach S.,

Saygin Z.M., Ozernov-Palchik O., Cyr, A., Halverson K., Hudson M., Guerrero S., Gaab N., Gabrieli J. Society for the Scientific Study of Reading (2013).

"Neuroimaging predictors of treatment response in social phobia." Pollack, M., Doehrmann, O., Ghosh, S., Polli, F., Reynolds, G., Horn, F., Keshavan, A., Triantafyllou, C., Saygin, Z., Whitfield-Gabrieli, S., Hofmann, S., Gabrieli, J. (2013). European Neuropsychopharmacology, 24 (S-142-S143).

"The functional connectomics underlying dyslexic adaptation deficits". Osher D.E., Saygin Z.M., Perrachione T., Gabrieli J.D.E. Society for Neuroscience (2012).

"Structural connectivity predicts risk for dyslexia in kindergarteners". Saygin Z.M., Norton E.S., Osher D.E., Beach S. B., Cyr A.B., Ozranov-Palchik O., Yendiki A., Fischl B., Gaab N., Gabrieli J.D.E. Society for Neuroscience (2012).

"Registration of Histology and MRI using Blockface as Intermediate Space". Reuter M., Sand P., Huber K., Nguyen K., Saygin ZM, Augustinack J., Fischl B. Human Brain Mapping (2012).

"Examining Structural Connectivity in Young Adults with Autism Spectrum Disorders". Joshi, G., Saygin Z.M. Biederman, J., Sheridan, M., Reynolds, G., Sabhlok,S., Goldin, R., Gabrieli, J.D.E. American Academy of Child and Adolescent Psychiatry (2011).

"Predicting functional activity from structural connectivity." Osher D.E., Saygin Z.M., Gabrieli J.D.E. (2011). Frontiers in Neuroinformatics Conference Abstract: 4th INCF Congress of Neuroinformatics. doi: 10.3389/conf.fninf.2011.08.00010.

"Connectivity-based segmentation of human amygdala nuclei using probabilistic tractography". Saygin ZM, Osher DE, van der Kouwe A, Gabrieli JDE. Human Brain Mapping (2010).

"Neural responses to emotional faces and scenes in social anxiety disorder". Doehrmann O, Hofmann SG, Pollack MT, Saygin ZM, Reynolds GO, Sabhlok SR , Gabrieli JDE, Polli FE. American Psychological Society Meeting (2010).

"Abnormal amygdala and FFA response to face and object novelty in social anxiety disorder". Saygin ZM, Reynolds GO, Sabhlok SR, Richey JA, Hofmann S, Pollack M, Schwartz C, Gabrieli JDE, Polli FE. Society for Neuroscience Meeting (2009).

"Brain Regions Supporting Fast-Latency Spatial Detection of Angry Faces: An Event-Related fMRI Study". Richey JA, Polli FE, Saygin ZM, Reynolds GO, Sabhlok SR, Hofmann S, Pollack M, Gabrieli JDE. Society for Neuroscience Meeting (2009).

"Default mode abnormalities in social anxiety disorder" Polli FE, Saygin ZM, Reynolds GO, Sabhlok SR, Whitfield-Gabrieli S, Hofmann S, Pollack M., Gabrieli JDE. Society for Neuroscience Meeting (2009).

"Novelty processing in social anxiety disorder: BOLD response of amygdala and emotional FFA voxels". Saygin ZM, Reynolds GO, Sabhlok SR, Richey JA, Hofmann SG, Pollack MT, Schwartz CE, Gabrieli JDE, Polli FE. Gordon Research Conference: Amygdala in Health & Disease (2009).

"Abnormal amygdala response to face and object novelty in Social Anxiety Disorder" Saygin ZM, Sabhlok SR, Reynolds GO, Richey JA, Song SS, Shah AM, Hofmann SG, Pollack MT, Schwartz CE, Gabrieli JDE, Polli FE. Human Brain Mapping (2009).

"Personality Correlates of Amygdala Response to Masked Fear and Novelty" Reynolds GO, Saygin ZM, Sabhlok SR, Richey JA, Song SS, Shah AM, Hofmann SG, Pollack MT, Schwartz CE, Gabrieli JDE, Polli FE. Human Brain Mapping (2009).

"Use of fMRI to Identify Regional Activation of Cerebral Cortex Involved in Successful Performance of an Incidental Verbal Memory Task by Children" Maril A, Davis PE, Saygin ZM, Koo J, Mulkern RV, Waber DP, Rivkin MJ. Annals of Neurology (2006).

Invited Presentations

FLUX Developmental Cognitive Neuroscience, Baltimore, MD, invited symposium (09/28/2024)
Johns Hopkins, Dept. of Cognitive Sciences Colloquium, Baltimore, MD (09/26/2024)
Translational Data Analytics Institute, Data Science Summer Camp (07/10/2024)
Centre for Vision Research, York University, Toronto, Canada (12/4/2023)
Society for the Neurobiology of Language, Marseilles, France (10/26/2023)
Women in Philanthropy, OSU (11/17/2022)
Crane Research Forum, OSU (11/09/2022)
Department of Psychology, OSU (10/18/2022)
Neurotrauma Research in Progress Seminar, OSU (08/29/2022)
Neurotrauma Research in Progress Seminar, OSU (04/22/2022)
Trends in Psychology Summit, Harvard University (11/12/2021)
Department of Psychology, OSU (10/27/2021)
Translational Data Analytics Institute, Data Science for Women (07/14/2021)
NIMH Neonatal & Infant Imaging (6/23/2021)
Carnegie Mellon University, Dept. of Psychology (5/3/2021)
Center for Cognitive and Behavioral Brain Imaging, OSU (2/9/2021)
Department of Psychology, OSU (9/30/2020)
Salon Series, Dept. of Psychology, OSU (9/28/2020)
Neuro Trauma-Research In Progress Seminars, Columbus, Ohio (9/11/2020)
Data Science for Women Summer Camp, Columbus, Ohio (07/13/2020)
Development and Plasticity of High-level Vision and Cognition, Cognitive Neuroscience Symposium (5/3/2020)
Nationwide Children's Hospital, Columbus, Ohio (03/06/2020)
Emory University (12/9/2019)
CCBBI Research Day, Columbus, Ohio (12/6/2019)
Nationwide Children's Hospital, Columbus, Ohio (6/25/2019)
TEDx OSU, Columbus, Ohio (2/23/2019)
Temple University (10/24/2018)
Developmental Seminar Series, Department of Psychology, OSU (09/21/2018)
The Ohio State Center for Cognitive and Brain Sciences Fall Retreat, OSU (09/15/2018)
Mathematical Biological Institute & Chronic Brain Injury Minisymposium on Quantitative Neuroscience, OSU (Sept. 13 2018)
The Ohio State Center for Cognitive & Brain Sciences Undergraduate Summer Institute (07/16/2018).
Emory University (April 21 2018)
Cognitive Seminar series, Department of Psychology, OSU (10/25/2017)
Ohio State University (Apr. 11 2016)
Ohio State University (Feb. 12 2016)
Boston University (Jan. 28 2016)

Johns Hopkins (Apr. 16 2015)
The Social Brain Minisymposium, Cognitive Neuroscience Society, (Mar. 31 2015)
Wiring the Brain, Cold Spring Harbor Laboratory (Mar. 25 2015)
Tulane University (Jan. 22 2015)
Fetal-Neonatal Neuroimag. & Dev. Science Center, Harvard Medical School (Sept. 30 2014)
The Social Neuroscience of Autism Minisymposium, Freie Universitat Berlin (July 1 2014)
Vision Sciences Society (May 18 2014)
Harvard University (Feb. 25 2014)
Johns Hopkins (Dec. 9 2013)
Society for Neuroscience (Nov. 12 2013)
CLPS/Neuroscience Seminar, Brown University (Aug. 16 2013)
Rockefeller University (Aug. 13 2013)
University of Maryland (Aug. 9 2013)
Laboratory for Brain and Cognition, NIMH (Aug. 8 2013)
Center for Cognitive Neuroscience, University of Pennsylvania (Aug. 7 2013)
Computational Radiology Laboratory, Children's Hospital Boston (Mar. 7 2012)
Society for Neuroscience (Nov. 2011)
Laboratories of Cognitive Neuroscience, Children's Hospital Boston/Harvard Medical School (Nov. 2011)
Development and Affective Neuroscience/ Mood and Anxiety Disorders Program, NIMH (Oct. 18 2011)
Society for Neuroscience (Nov. 2010)
Association for Behavioral and Cognitive Therapies Convention (Nov. 17 2010)
Human Brain Mapping Conference (Jun. 2010)
Laboratories of Cognitive Neuroscience, Children's Hospital Boston/Harvard Medical School (2010)
McGovern Institute Retreat, MIT (Jun. 2 2010)
McGovern Institute 10th Anniversary, MIT (Oct. 14 2010)
The Alan and Lorraine Bressler Clinical and Research, Program for Autism Spectrum Disorders.
MGH/Harvard Medical School (Feb. 23 2009)

Service

Editorial Board Member

Scientific Reports (2023-present)

Society Committees

Flux Governance Task Force committee member (2024)

Reviewer (selected)

General science, psychology, clinical, neuroscience journals:

Science
PNAS
Nature Neuroscience
Nature Communications
Neuron
Journal of Neuroscience
NeuroImage
NeuroImage Clinical
Cortex
Human Brain Mapping
Brain, Brain Imaging and Behavior
Brain Structure and Function
Brain Imaging and Behavior

Neuropsychologia
Neuroscience
Pediatrics
Biological Psychiatry
Clinical Psychology
eLife

Conferences:
Vision Sciences Society
Society for the Neurobiology of Language
Organization for Human Brain Mapping

Grant and award-making organizations:
National Science Foundation (ad-hoc)
National Institute of Health Early Career Reviewer Program (2022-present)
NIH HCMF study section (June 2024)
NIH Special Emphasis Panel/Scientific Review Group (Nov. 2024)

School and University Service
OSU, Chair, Center for Cognitive and Behavioral Brain Imaging Technical Committee (2023-present)
OSU, Member, Center for Cognitive and Behavioral Brain Imaging Steering Committee (2023-present)
OSU, Chair, Speakers Committee (2023-present)
OSU, Member, Admissions Committee (2023-present)
OSU, Judge, Chronic Brain Injury Program Research Day (2024)
OSU, Judge, Chronic Brain Injury Program Best Paper (2024)
OSU, Judge, Center for Cognitive and Behavioral Brain Imaging Research Day (2024)
OSU, Member, Search Committee Decision Psychology (2023-2024)
OSU, Member, Neuroscience Graduate Program Admissions reviewer (2022-present)
OSU, Chair, Center for Cognitive and Behavioral Brain Imaging Outreach & Talk Series Committee (2019-2023)
OSU, Judge, Center for Cognitive and Behavioral Brain Imaging Research Day (2022)
OSU, Talk Moderator, Center for Cognitive and Behavioral Brain Imaging Research Day (2022)
OSU, Reviewer, Chronic Brain Injury Program Pilot award (2022)
OSU, Judge, Center for Cognitive and Behavioral Brain Imaging Research Day (2021)
OSU, Member, Outreach Committee (2020-2023)
OSU, Member, Speakers Committee (2020-2023)
OSU, Reviewer, Chronic Brain Injury Program Pilot award (2019)
OSU, Cognitive Neuroscience Area Planning Committee (2019-2020)
OSU, Member, CCBBI Users Planning Committee (2018-2019)
OSU, Member, Neuroscience Graduate Admissions Committee (2018-2022)
OSU, Member, Diversity, Recruitment, & Retention Committee (2018-2020)
OSU, Member, Research Experiments Committee (2018-2019)
MIT, Interview Weekend Panel Member (2009-2011)
MIT, Cambridge Science Festival (2010)
Chalk on the Walk Harvard Square, Artist (2010)
Massachusetts Institute of Technology, Chair of Cognitive Lunch Talks (2008-2009)
Brown University, Brown Alumni Schools Committees (BASC) interviewer (2007-2010)

Professional Memberships
Vision Sciences Society (2012-present)

Fetal Infant & Toddler Neuroimaging Group (2022-present)
Flux Society for Developmental Cognitive Neuroscience (2022-present)
American Association for the Advancement of Science (2008-present)
Cognitive Neuroscience Society (2008-present)
Organization for Human Brain Mapping (2008-present)
Society for Neuroscience (2008-present)
Society for the Neurobiology of Language (2023-present)

Teaching

Introduction to Cognitive Neuroscience, Psych 3513, OSU (2019-present)
Developmental Cognitive Neuroscience, Psych 5628, OSU (2018-present)
Techniques and Topics in Cognitive Neuroscience, Psych 6880, OSU (2022)
Cognitive Neuroscience Proseminar, Psych 8860, OSU (2020-2021)
Cognitive Proseminar, Psych 7894, OSU (2018-2020)
Neuroimaging Bootcamp, OSU (2019)
Introduction to Psychology, MIT (2010)
Introduction to Psychology, MIT (2010)
Introduction to Psychology, MIT, Professor John Gabrieli (2009)
Principles of Neurobiology, Brown University (2005)

Mentor/ Advisor

Postdoctoral students

Ye Shen (2022-2023)
Adam Culiver (2023-present)

Graduate students

Advisor/ co-advisor:

Xinnan Wang (2024-current)
Laura Bradley (2024-current)
Sophia Bibb (2023-current)
Elana Schettini (2021-current)
Kelly Hiersche (2021-current)
Jin Li (2018- 2024)
Fiona Molloy (2020- 2023)
Heather Hansen (2017- 2023)

Dissertation, Candidacy, Masters Examination Committee Member:

Kate Nolan, Dissertation Examination Member (2024)
Nicole Saltiel - Masters Examination Member (2024)
Tianyu Zhang - Candidacy Examination Member (2024)
Yong Min Choi, Candidacy Examination Member (2023)
Zitong Lu, Candidacy Examination Member (2023)
Yuxuan Zeng, Masters Examination Member (2023)
Kate Nolan, Candidacy Examination Member (2023)
Athena Howell, Candidacy Examination Chair (2021)
Lisa Heisterberg, Dissertation and Candidacy Examination Member (2021)
Hannah Shatzer, Dissertation Examination Member (2020)
Xiaoli Zhang, Dissertation Examination Member (2020)
Jena Moody, Candidacy Examination Member (2022)

Matthew Heard, Candidacy Written Examination (2020)
Anita Shankar, Masters Examination Member (2021)

Undergraduate Students

Advisor/ co-advisor:

Lauren Rydel (2024-present)
Leah DiRubio (2022-present)
Razan Mirghani (2022-present)
Ajuna Mwesigye (2022-2024)
Emily Yu (2020-2024)
Divya Gopal, OSU (2021-2024)
Brenden Dalton, OSU (2021-2023)
Nyeka Sangster, OSU (2022)
Andrew Sarmir, OSU (2022)
Luke Wisniewski (2020-2022)
Yasemin Gokcen, OSU (2019-2022)
Kyle Moon, U. Notre Dame (2020-2021)
Amanie Rasul, OSU (2019-2021)
Lilly Lin, OSU (2019-2021)
Carver Nabb, OSU (2018-2020)
Justin Flanagan, OSU (2017-2020)
Eshwar Madishetti, OSU(2017-2019)
Deanna Arpi Youssoufian, MIT (2013-2017)
Osheiza Otori , MIT (2013)
Jean Yu, MIT (2013)
Heather Acuff, MIT (2012)
Amber Li, MIT (2011)
Elisha Gray, MIT (2011)
Nathan Arce, MIT (2011)
May Chen, MIT (2010)
Breanna Berry, MIT (2009-2010)
Michelle Garber, MIT (2009)
Lauren Kazmierski, MIT (2009)
William Morejon, MIT (2009)
Geena Márquez, MIT (2009)
Ray Gonzalez, MIT (2009)
Shirin Kasturia, MIT (2008)

Thesis & Honors committees:

Leah DiRubio, Undergraduate Thesis Committee Chair (2024- current)
Mei Jira, Undergraduate Thesis Committee Chair (2024- current)
Emily Yu, Undergraduate Thesis Committee Co-Chair (2023- 2024)
Anisha Babu, Undergraduate Thesis Committee Member (2019-2020)

Research Assistants

Nii-Ayi Aryeetey, OSU (2023-present)
Anna Quatrale, OSU (2023-present)
Patricia Stefancin, OSU (2020-2023)
Maggie Beard, OSU (2019-2022)

Arman Bordbar, OSU (2019-2021)
Carver Nabb, OSU (2019-2020)
Micah Rhodes, OSU (2017-2019)
David Beeler, MIT (2016-2017)
Harris Hoke, MIT (2015-2017)
Jenelle Feather, MIT (2014-2016)
Terri Scott, MIT (2014-2016)
Gretchen Reynolds, MIT (2008-2011)
Sandeep Sabhlok, MIT (2008-2010)

Public Media

Healio https://www.healio.com/news/neurology/20230307/multiple-demand-network-online-early-sensitive-to-ability-in-young-children

OSU https://news.osu.edu/children-use-the-same-brain-network-as-adults-for-tough-problems/

PBS radio: All Sides with Ann Fisher - Nov. 2 2022 https://news.wosu.org/show/all-sides-with-ann-fisher/2022-11-02/wellness-wednesday-preparing-for-the-flu-covid-19-and-rsv-this-season

PBS QED with Dr. B: https://video.wosu.org/show/qed-dr-b/
https://youtu.be/Xze-vUglt_w

TEDx OSU https://www.youtube.com/watch?v=dcWMH20INUw

OSU https://news.osu.edu/human--brains-pre-wired-for-words-is-coolest-science-story-of-2020/

USA Today https://www.usatoday.com/videos/tech/2020/10/23/newborns-see-words-birth-according-new-study/3740898001/

MSN https://www.msn.com/en-us/health/medical/new-study-reveals-newborns-see-words-from-birth/vp-BB1akvyT

Current Science Daily: https://currentsciencedaily.com/stories/563509915-infant-brains-are-prewired-for-reading-study-finds

AAAS: https://www.eurekalert.org/pub_releases/2020-10/osu-hab102220.php

AAAS: https://www.eurekalert.org/pub_releases/2020-10/osu-nbl101920.php

DE24 News https://www.de24.news/2020/10/according-to-one-study-childrens-brains-are-pre-wired-to-see-words.html

OSU News https://news.osu.edu/humans-are-born-with-brains-prewired-to-see-words

https://www.eurekalert.org/pub_releases/2020-10/osu-nbl101920.php

OSU News https://news.osu.edu/newborn-brains-lack-maturity-to-process-emotions-as-adults-do/

Nature Reviews Neuroscience Highlights
http://www.nature.com/nrn/journal/v17/n10/full/nrn.2016.123.html

MIT http://news.mit.edu/2016/brain-connections-key-reading-0808

Dana Foundation http://www.dana.org/News/Targeting_Dyslexia/

BYU Radio http://www.byuradio.org/episode/50b30dec-bb77-4efa-acd3-8e6bd60afe9c/top-of-mind-with-julie-rose-sexual-assault-long-term-effects-of-bullying-aging-facebook?playhead=3597&autoplay=true

MIT http://newsoffice.mit.edu/2015/toward-smarter-selection-therapy-psychiatric-disorders-0811

WBUR Boston http://www.wbur.org/2014/06/12/brain-images

Koch Institute http://ki-galleries.mit.edu/2014/saygin

Wellcome Trust http://www.wellcomeimageawards.org/2014/wiring-of-the-human-brain

The Guardian http://www.theguardian.com/science/gallery/2014/mar/09/wellcome-image-awards-2014-life-in-extreme-close-up-in-pictures

Independent http://www.independent.co.uk/news/pictures/wellcome-image-awards-2014-shortlist-announcement-9182439.html

Telegraph http://www.telegraph.co.uk/science/picture-galleries/10689850/The-winning-entries-in-the-Wellcome-Image-Awards-2014.html#?frame=2848384

Cell Picture Show (http://www.cell.com/cell_picture_show-koch2014winners

MIT Technology Review http://www.technologyreview.com/article/524216/the-art-of-science/

Boston Magazine 09/16/13 http://www.bostonmagazine.com/health/blog/2013/09/16/dyslexia-brain-scans-mit-boston/

NPR news WBUR 08/14/13. http://commonhealth.wbur.org/2013/08/tracking-dyslexia-in-the-preschool-brain

CBS news 08/14/13. http://www.cbsnews.com/8301-204_162-57598512/brain-scans-may-diagnose-dyslexia-before-kids-can-even-read

FOX news 08/14/13. http://www.foxnews.com/health/2013/08/14/can-mri-brain-scans-identify-children-with-dyslexia/

MIT News 08/13/13 http://web.mit.edu/newsoffice/2013/brain-scans-may-help-diagnose-dyslexia-0813.html

US News and World Report 08/13/13 http://health.usnews.com/health-news/news/articles/2013/08/13/mri-might-allow-earlier-diagnosis-of-dyslexia-study

BBC News 08/13/13. http://www.bbc.co.uk/news/health-23679363

Simons Foundation Autism Research Initiative 02/09/12. http://sfari.org/news-and-opinion/news/2012/brain-imaging-study-links-structure-and-function-in-face-area

MIT News 01/03/12. http://web.mit.edu/newsoffice/2012/face-recognition-0103.html

Simons Foundation Autism Research Initiative 11/15/11. http://sfari.org/news-and-opinion/conference-news/2011/society-for-neuroscience-2011/amygdalas-links-to-other-brain-regions-wane-with-age

German Public Broadcasting 07/21/2011. http://www.br-online.de/podcast/mp3-download/bayern2/mp3-download-podcast-iq.shtml

Simons Foundation Autism Research Initiative 05/18/11. https://sfari.org/news-and-commentary/open-article/-/asset_publisher/6Tog/content/imaging-tool-maps-regions-within-amygdala