

# ANILA MARIA D'MELLO

Office: NE5.110K, Lab: NE5.102, 2201 Inwood Rd., Dallas, Texas 75390  
Office: (214)-645-7669 | Email: anila.dmello@utsouthwestern.edu | Website: dmelloolab.com

## ACADEMIC POSITIONS

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2022 – present     **Assistant Professor**  
Jon Heighten Scholar in Autism Research  
Department of Psychiatry & Peter O'Donnell Jr. Brain Institute  
University of Texas Southwestern Medical Center, Dallas, TX

Department of Psychology  
University of Texas at Dallas, Richardson, TX

## EDUCATION AND TRAINING

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2017 – 2022     **Postdoctoral Fellow**  
**Massachusetts Institute of Technology**, Cambridge, MA  
Advisor: Dr. John Gabrieli

2017             **Ph.D. in Behavior, Cognition, and Neuroscience**  
**American University**, Washington, DC  
Advisor: Dr. Catherine Stoodley

2012             **B.A. in Psychology with Honors, *magna cum laude***  
**Georgetown University**, Washington, DC  
Second Major: Government, Minor: French

## RESEARCH GRANTS & FELLOWSHIPS

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Awarded	<b>SFARI Bridge to Independence Award</b> Simons Foundation for Autism Research "Characterizing the neural underpinnings of cognitive inflexibility in autism spectrum disorders" Role: PI	Total Costs: \$600,000
2019 – 2022	<b>NIH F32MH117933</b> National Institutes of Mental Health "Characterizing neural adaptation in autism spectrum disorder" Role: PI (Fellow); Advisors: Drs. John Gabrieli & Tyler Perrachione	Total Costs: \$221,884
2018 – 2019	<b>SCSB Postdoctoral Fellowship</b> Simons Center for the Social Brain, Massachusetts Institute of Technology "Characterizing neural adaptation in autism spectrum disorder" Role: PI (Fellow); Advisors: Drs. John Gabrieli & Pawan Sinha *Second year declined to accept F32 award	Total Costs: \$62,140*
2016	<b>Doctoral Dissertation Student Research Scholarship</b> College of Arts and Sciences, American University Role: PI; Advisor: Dr. Catherine Stoodley	Total Costs: \$5,000

## AWARDS & RECOGNITIONS

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2022             **Jon Heighten Scholar in Autism Research**, UTSW

2017             **Outstanding Scholarship at the Graduate Level**, American University

2015, 2016     **College of Arts and Sciences Conference Travel Grant**, American University

2014, 2015     **Mellon Graduate Student Research Award**, College of Arts and Sciences, American University

2015             **Greenberg Professional Development Conference Grant Award**, Center for Teaching, Research, and Learning, American University

2014             **Abstract selected as "Neuroscience Hot Topic" for press release by Society for Neuroscience**

## PUBLICATIONS

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\*denotes undergraduate, research assistant, or graduate student mentee

### Peer-reviewed

**D’Mello, A.M.**, Frosch, I.R., Meisler, S.L., Grotzinger, H., Perrachione, T.K., Gabrieli, J.D.E. (Accepted) Diminished repetition suppression reveals selective and systems-level face processing differences in ASD. *Journal of Neuroscience*.

**D’Mello, A.M.**, Frosch, I.R., Li, C., Cardinaux, A., Gabrieli, J.D.E. (2022) Participation of females in autism research: empirical evidence for a “leaky” recruitment-to-research pipeline. *Autism Research*. <https://doi.org/10.1002/aur.2795>.

**D’Mello, A.M.**, Bach P., Corlett, P., Rozenkrantz, L. (2022) Editorial: Predictive Mechanisms in Action, Perception, Cognition, and Clinical Disorders. *Frontiers in Human Neuroscience*. <https://doi.org/10.3389/fnhum.2022.1005905>.

Olson, H.A.\* & **D’Mello, A.M.** (2022) The Social Brain. *Oxford Research Encyclopedia of Psychology*. Oxford University Press. Ed. Oliver Braddick.

Frosch, I.R.\*, Mittal, V.A., **D’Mello, A.M.** (2022) Cerebellar contributions to adaptive prediction and Autism Spectrum Disorders. Invited submission to *Frontiers in Integrative Neuroscience* 16.

Al Dahhan, N.Z., Halverson, K., Peek, C.P., Wilmot, D., **D’Mello, A. M.**, Romeo, R., Meegoda, O., Imhof, A., Wade, K., Sridhar, A., Centanni, T.M., Gabrieli, J.D.E., & Christodoulou, J.A. (2022). Dissociating executive function and ADHD influences on reading ability in children with dyslexia. *Cortex*.

Pollack, C., Wilmot, D., Centanni, T., Halverson, K., Frosch, I., **D’Mello, A.M.**, Romeo, R., Capella, J., Imhof, A., Wade, K., Al Dahhan, N., Gabrieli, J.D.E. & Christodoulou, J.A. (2021) Anxiety, motivation, and competence in math and reading in children with and without learning difficulties. *Frontiers in Psychology*, 4193. <https://doi.org/10.3389/fpsyg.2021.704821>

Rozenkrantz, L., **D’Mello, A.M.**§, Gabrieli, J.D.E (2021) Enhanced Rationality in Autism Spectrum Disorder. *Trends in Cognitive Sciences* 25(8):685-696. <https://doi.org/10.1016/j.tics.2021.05.004>  
§ Illustrated cover for this issue; chosen as cover article.

Rice, L., **D’Mello, A.M.**, Stoodley, C.J. (2021) Differential behavioral and neural effects of regional cerebellar tDCS. *Neuroscience* 462, 288-302. <https://doi.org/10.1016/j.neuroscience.2021.03.008>

**D’Mello A.M.**, Gabrieli J.D.E, Nee D.E. (2020) Evidence for Hierarchical Cognitive Control in the Human Cerebellum. *Current Biology* 30(10), 1881-1892.e3. <https://doi.org/10.1016/j.cub.2020.03.028>

**D’Mello, A.M.**, Centanni, T.M., Christodoulou, J.A., Gabrieli, J.D.E. (2020) Cerebellar contributions to rapid semantic processing in reading. *Brain and Language* 208, 104828 <https://doi.org/10.1016/j.bandl.2020.104828>

**D’Mello, A.M.**, Rozenkrantz, L. (2020) Neural mechanisms for prediction: from action to higher-order cognition. *Journal of Neuroscience* 40(27):5158-5160. <https://doi.org/10.1523/JNEUROSCI.0732-20.2020>

Arnold Anteraper, S., Guell, X., Hollingshead, M., **D’Mello, A.M.**, Whitfield-Gabrili, S., Whitfield-Gabrieli, S., Biederman, J., Joshi, G. (2020) Functional Alterations Associated with Structural Abnormalities in Adults with High-Functioning Autism Spectrum Disorder. *Brain Connectivity* 10(7):368-376. <https://doi.org/10.1089/brain.2020.0746>

Guell, X., **D’Mello, A.M.**, Romeo., R.R., Hubbard, N.A., Schmahmann, J., Gabrieli, J., Arnold Anteraper, S. (2020) Functional territories of the human dentate nucleus\*. *Cerebral Cortex* 30(4):2401-2417. <https://doi.org/10.1093/cercor/bhz247>

\*Chosen as cover article

Arnold Anteraper, S., Guell, X., Taylor, P.H., **D’Mello, A.M.**, Whitfield-Gabrili, S., Joshi, G. (2019) Intrinsic connectivity of

the dentate nuclei in autism spectrum disorder. *Brain Connectivity* 9(9), 692-702. <https://doi.org/10.1089/brain.2019.0692>

**D'Mello, A.M.** & Gabrieli, J.D.E (2018) Cognitive neuroscience of dyslexia. *Language, Speech, and Hearing Services in Schools* 49(4), 798-809. [https://doi.org/10.1044/2018\\_LSHSS-DYSLC-18-0020](https://doi.org/10.1044/2018_LSHSS-DYSLC-18-0020)

Arnold Anteraper, S., Guell, X., **D'Mello, A.M.**, Joshi, N., Whitfield-Gabrieli, S., Joshi, G. (2018) Disrupted cerebro-cerebellar intrinsic functional connectivity in young adults with high-functioning autism spectrum disorder: A data-driven, whole-brain, high temporal resolution fMRI study. *Brain Connectivity* 9(1):48-59. <https://doi.org/10.1089/brain.2018.0581>

Stoodley, C.J., **D'Mello, A.M.** §, Ellegood, J., Jakkamsetti, V., Liu, P., Nebel, M.B., Gibson, J.M., Kelly, E., Fantao, M., Cano, C., Pascual, J., Mostofsky, S.H., Lerch, J.P., Tsai, P.T. (2017) Altered cerebellar connectivity in autism and cerebellar-mediated rescue of autism-related behaviors in mice. *Nature Neuroscience* 20(12), 1744-1751. <https://doi.org/10.1038/s41593-017-0004-1>

§ *Illustrated cover for this issue; chosen as cover article.*

**D'Mello, A.M.**, Turkeltaub, P.E., Stoodley, C.J. (2017) Cerebellar tDCS modulates neural circuits during semantic prediction: A combined tDCS-fMRI study. *Journal of Neuroscience* 37(6), 1604-1613. <https://doi.org/10.1523/JNEUROSCI.2818-16.2017>

Moore, D., **D'Mello, A.M.**, McGrath, L., Stoodley, C.J. (2017) The developmental relationship between specific cognitive domains and grey matter in the cerebellum. *Developmental Cognitive Neuroscience* 24, 1-11. <https://doi.org/10.1016/j.dcn.2016.12.001>

Stoodley, C.J., Swears, M., **D'Mello, A.M.**, Turkeltaub, P. (2016) Cerebellar tDCS as a novel treatment for aphasia? Evidence from behavioral and resting-state functional connectivity data in healthy adults. *Restorative Neurology and Neuroscience* 34(4), 491-505. <https://doi.org/10.3233/RNN-150633>

**D'Mello, A.M.**, Moore, D., Crocetti, D., Mostofsky, S., Stoodley, C.J. (2016) Cerebellar grey matter differentiates children with early language delay in ASD. *Autism Research* 9(11), 1191-1204. <https://doi.org/10.1002/aur.1622>

**D'Mello, A.M.** and Stoodley, C.J. (2015) Cerebro-cerebellar circuits in autism spectrum disorder. *Frontiers in Neuroscience* 9, 408. <https://doi.org/10.3389/fnins.2015.00408>

**D'Mello AM**, Crocetti D., Mostofsky S.H., and Stoodley C.J. (2015) Cerebellar grey matter and lobular volumes correlate with core autism symptoms. *Neuroimage: Clinical* 7, 631-639. <https://doi.org/10.1016/j.nicl.2015.02.007>

### **Science Communication**

**D'Mello, A.M.** (2022) How scientists can counteract their unwitting contributions to autism's sex bias. Spectrum Autism Research News. <https://www.spectrumnews.org/opinion/how-scientists-can-counteract-their-unwitting-contributions-to-autisms-sex-bias/>

Rozenkrantz, L. & **D'Mello, A.M.** (2022) Autistic people challenge preconceived ideas about rationality. *Aeon + Psyche Magazine*. <https://psyche.co/ideas/autistic-people-challenge-preconceived-ideas-about-rationality>

**D'Mello, A.M.** & Flynn, O. (2019). Respect the Poster. *Science*. 366(6466), 766-766. <https://doi.org/10.1126/science.366.6466.766>

**D'Mello, A.M.** (2019) "What is the Social Brain?" Guest blog post for the "Ask the Brain" series in the McGovern Institute for Brain Research Newsletter. <https://mcgovern.mit.edu/2019/10/04/what-is-the-social-brain/>

**D'Mello, A.M.** (2018) "Excellence in Neuroscience Training at AU" Article in The Catalyst (American University College of Arts and Sciences Magazine devoted to promotion of STEM programs) about personal experience with graduate training opportunities at American University. <https://www.american.edu/cas/news/excellence-in-neuroscience-training-at-au.cfm>

**D'Mello, A.M.** (2017) "Changing the Brain and Watching it Happen" Article in The Catalyst about dissertation research. <https://www.american.edu/cas/news/changing-the-brain.cfm>

## CONFERENCE PRESENTATIONS

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### Talks

Stoodley C.J., Rice L.C., **D'Mello A.M.** (2022) Cerebellar modulation of social behaviors in autism. *Flux Congress, Paris. Symposium: The potentially big role of the "little brain" in cognitive development.*

**D'Mello, A.M.** (2020) The role of the cerebellum in language and neurodevelopmental disorders. *Organization for Human Brain Mapping Annual Conference 2020, Educational Course on Imaging the Cerebellum (Virtual due to COVID-19).*

**D'Mello, A.M.** (2019) Cerebello-cerebral circuits in language processing and development. *Society for Neuroscience Annual Meeting, Chicago. Minisymposium: Functional Maturation of Cerebello-Cerebral Circuits.*

Stoodley, C.J., **D'Mello, A. M.**, Blevins, L. C., Martin, S. E. (2019) Cerebellar tDCS modulates ASD-relevant circuits and behaviors. *International Society for Autism Research Annual Meeting.*

**D'Mello, A.M.**, Romeo R. R., Leonard, J. A., Mackey, A., Gabrieli, J.D.E. (2018) Cerebellar contributions to children's language processing. *Society for Neuroscience Annual Meeting, San Diego. Nanosymposium: Human Cognition and Behavior: Neurocognitive Development.*

**D'Mello, A.M.** (2016) Cerebellar contributions to whole brain resting-state networks. *Center for Behavioral Neuroscience Annual Retreat Data Blitz.*

Barrett, C.G.\*, **D'Mello, A.M.**, Turkeltaub, P.T., Stoodley, C.J. (2016) The effects of cerebellar neuromodulation on neural activation in language networks. *Robyn Rafferty Mathias Student Research Conference. Washington, DC.*

Stoodley, C.J. **D'Mello, A.M.**, Shook, D., Hayward, W., Turkeltaub, P. (2015) Cerebellar contributions to language: a combined TDCS-fMRI study. *Nanosymposium: The Cerebellum and Cognition, Society for Neuroscience Annual Meeting. Chicago, IL.*

**D'Mello, A.M.**, Moore, D., Crocetti, D., Mostofsky, S., Stoodley, C.J. (2014) Cerebellar grey matter correlates with early language delay in autism. *Society for Neuroscience Annual Meeting – Cerebellum and Autism Nanosymposium. Washington, DC.*

**D'Mello, A.M.** (2014) Cerebellar grey matter correlates with early language delay in autism. *Center for Behavioral Neuroscience Retreat, American University. Washington, DC.*

### Posters

O'Brien, A. M., Ozernov-Palchik, O., **D'Mello, A. M.**, Sinha, P., & Gabrieli, J. D. E. (Submitted). Categorical Perception in Autistic Adults: The *Who* and the *How* Matter. *Meeting on Language in Autism.*

O'Brien, A.M.\*, Gabrieli, J.D.E., **D'Mello, A.M.** (Submitted) Increased Spatial Variability of Brain Activation in Autistic Adults. *International Society for Autism Research Annual Meeting.*

**D'Mello, A.M.** #, Olson, H.A. #, Johnson, K.T.#, Gabrieli, J.D.E. (2022) Personalized neuroimaging sheds light into the role of motivation in language processing. *Society for the Neurobiology of Language Annual Meeting.*

**D'Mello, A.M.** (2022) Diminished repetition suppression reveals selective and systems-level face processing differences in ASD. *Frontiers in neuropsychiatric disease research, models, and treatment avenues minisymposium, McGovern Institute for Brain Research, MIT.*

**D'Mello, A.M.** (2022) Participation of Females in Autism Research: Empirical Evidence for a "Leaky" Recruitment-to-Research Pipeline. *Yang-Tan Research Centers Retreat, MIT.*

**D'Mello, A.M.** #, Olson, H.A. #, Johnson, K.T.#, Gabrieli, J.D.E. (2022) Let's Talk about Trains: Stories about Special Interests Increase Language Network Activation in Children with and without ASD. *International Society for Autism Research Annual Meeting.* #Authors contributed equally

O'Brien, A.#, **D'Mello, A.M.** #, Frosch, I.R., Perrachione, T.K., Gabrieli, J.D.E. (2022) Evidence for increased neural heterogeneity of perceptual processing in autism spectrum disorder. *Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.* #Authors contributed equally

**D'Mello, A.M.**, Frosch, I.R., Meisler, S. L., Grotzinger, H., Perrachione, T.K., Gabrieli, J.D.E. (2021) Evidence for domain-specific neural adaptation reductions in autism spectrum disorder. *Society for Neuroscience Annual Meeting, Chicago, IL (Virtual due to COVID-19)*.

Blevins, L.C., **D'Mello, A.M.**, Martin, S.E., Stoodley, C.J. (2020) The cerebellum modulated the acquisition of social information in autism. *International Society for Autism Research Annual Conference, Seattle, WA*.

Frosch, I.R.\*, **D'Mello, A.M.**, Gabrieli, J.D.E. (2019) Autistic traits are associated with reading difficulty and reduced neural suppression to print. *Society for Neuroscience Annual Meeting, Chicago, IL*.

Grotzinger, H.\*, Romeo, R., Giebler, M., **D'Mello, A.M.**, Imhof, A., Gabrieli, J. (2019) Cerebellar language lateralization in bilingual and monolingual children and adolescents. *FLUX Congress, New York, NY*.

**D'Mello, A.M.**, Frosch, I.\*, Grotzinger, H., Perrachione, T.K., Gabrieli, J.D.E. (2019) Characterizing neural adaptation in autism spectrum disorder. *Frontiers in Autism Research Symposium, MIT, Cambridge, MA*.

Pollack, C., **D'Mello, A. M.**, Wilmot, D., Frosch, I., Romeo, R., Imhof, A., Wade, K., Capella, J., Centanni, T., Halverson, K., Gabrieli, J. D. E., & Christodoulou, J. A. (2019) Neural correlates of number mapping in elementary school children. *European Association for Research on Learning and Instruction (EARLI), Aachen, Germany*.

Wilmot, D.\*, **D'Mello, A.M.**, Romeo, R., Peek, C., Meegoda, O., Centanni, T., Halverson, K., Gabrieli, J.D.E., Christodoulou, J. (2018) Neural correlates of phonological processing in dyslexia and comorbid dyslexia-ADHD. *Society for Neuroscience Annual Meeting, San Diego, CA*.

Blevins, L., **D'Mello, A.M.**, Drury, B., Barrett, C.G., Lillian, A.R., Marko, M.E., Stoodley, C. J. (2018) Effect of active electrode position on brain activation after cerebellar tDCS. *Society for Neuroscience Annual Meeting, San Diego, CA*.

Imhof, A., **D'Mello, A.M.**, Halverson, K., Wilmot, D., Romeo, R., Frosch, I.F., Sridhar, A., Gabrieli, J.D.E., Christodoulou, J. (2018) Examining rates of comorbidity in dyslexia, dyscalculia, and ADHD. *American Speech-Language-Hearing Association (ASHA) Convention, Boston, MA*.

**D'Mello, A.M.**, Centanni, T.M., Christodoulou, J.A., Gabrieli, J.D.E. (2018) Cerebellar engagement during fluent reading: Implications for readers with dyslexia. *Organization for Human Brain Mapping Annual Meeting. Singapore*.

Arnold Anteraper, S., **D'Mello, A.M.**, Guell, X., Whitfield-Gabrieli, S., Gagan, J. (2018) Dentate nucleus functional connectivity is abnormal in high-functioning Autism Spectrum Disorder and correlates with symptom severity. *Sixth Biennial Conference on Resting State and Brain Connectivity, Montreal*.

Arnold Anteraper, S., Guell, X., **D'Mello, A.**, Whitfield-Gabrieli, S., Gagan, J. (2018) Disrupted cerebro-cerebellar intrinsic functional connectivity in young adults with high-functioning autism spectrum disorder. *Autism spectrum disorder and associated psychopathology: clinical and neural presentation symposium, International Association for Child and Adolescent Psychiatry and Allied Professions World Congress, Prague*.

Arnold Anteraper, S., Guell, X., **D'Mello, A.**, Patil, K., Whitfield-Gabrieli, S., Gagan, J. (2018) Data driven analysis suggests disrupted cerebro-cerebellar connectivity in High-Functioning ASD. *Organization for Human Brain Mapping Annual Meeting, Singapore*.

Stoodley C.J., \*Martin, S., \*Drury, B., **D'Mello, A.M.** (2017) Investigating the role of the cerebellum in motor, linguistic, and social prediction: A tDCS-fMRI study. *Society for Neuroscience Annual Meeting, Washington, DC*.

Drury, B.\*, Martin, S.\*, **D'Mello, A.M.**, Stoodley, C.J. (2016) Cerebellar involvement in language prediction and error-monitoring. *Robyn Rafferty Mathias Student Research Conference, Washington, DC*.

Martin, S.\*, Drury, B.\*, **D'Mello, A.M.**, Stoodley, C.J. (2016) Impact of cerebellar neuromodulation on motor learning and brain activation. *Robyn Rafferty Mathias Student Research Conference, Washington, DC*.

**D'Mello, A.M.**, Thomas, C.I.C., Stoodley, C.J. (2016) Cerebellar neuromodulation and predictive processing in motor, cognitive, and social domains. *Society for Neuroscience Annual Meeting, San Diego, CA*.

**D'Mello, A.M.**, Turkeltaub, P., Stoodley, C.J. (2016) Cerebellar contributions to whole-brain resting-state networks: a

combined TDCS-fMRI study. *International Meeting for Autism Research, Baltimore, MD.*

**D'Mello, A.M.**, Turkeltaub, P., Stoodley, C.J. (2016) Cerebellar contributions to language and whole-brain language networks: a combined TDCS-fMRI study. *Cognitive Neuroscience Society Annual Meeting, New York, NY.*

**D'Mello, A.M.**, Shook, D., Hayward, W., Turkeltaub, P., Stoodley, C.J. (2015) Cerebellar tDCS alters resting-state connectivity in cerebro-cerebellar cognitive networks. *Society for Neuroscience Annual Meeting, Chicago, IL.*

**D'Mello, A.M.**, Shook, D., Hayward, W., Turkeltaub, P., Stoodley, C.J. (2015) Cerebellar contributions to language: A tDCS-fMRI pilot study. *7<sup>th</sup> Annual Society for Research on the Cerebellum, Brussels.*

Moore, D., **D'Mello, A.M.**, McGrath, L., Stoodley, C.J. (2015) The developmental relationship between cerebellar grey matter and cognition in a pediatric population. *2015 Cognitive Neuroscience Society Annual Meeting. San Francisco, CA.*

**D'Mello, A.M.** (2014) Cerebellar grey matter correlates with early language delay in autism. *All-American Weekend, Psychology Open House, American University, Washington, DC.*

**D'Mello, A.M.**, Crocetti, D., Mostofsky, S., Stoodley, C.J. (2014) Cerebellar grey matter and lobular measures correlate with core autism symptoms. *International Meeting for Autism Research (IMFAR), Atlanta, GA.*

**D'Mello, A.M.**, Moore, D., Crocetti, D., Mostofsky, S., Stoodley, C.J. (2014) Cerebellar grey matter correlates with early language delay in ASD. *24th Annual Robyn Rafferty Mathias Student Research Conference, Washington, DC.*

Mostofsky, S., **D'Mello, A.M.**, Crocetti, D., Stoodley, C.J. (2013) Cerebellar grey matter and lobular measures correlate with core autism symptoms. *Annual Meeting for the Child Neurology Society, Austin, TX.*

Murphy, E., **D'Mello, A.M.**, Fine, A., Foss-Feig, J., You, X., Kenworthy, L., Gaillard, W., Vaidya, C. (2011) Atypical amygdala connectivity during involuntary eye-gaze processing in emotional faces in Autism Spectrum Disorders (ASD). *Annual Meeting for the Cognitive Neuroscience Society. San Francisco, CA.*

## INVITED TALKS

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2023	Frontiers of BrainHealth Lunchtime Series, Center for BrainHealth, <b>University of Texas at Dallas</b>
2023	Virtual Brown Bag Series, <b>Temple University</b>
2023	Shrier Topics in Rehabilitation Science Seminar, <b>Moss Rehabilitation Center Research Institute</b>
2023	Lurie Center for Autism, <b>Massachusetts General Hospital</b>
2022	Center for Vital Longevity Science Luncheon Series, <b>University of Texas at Dallas</b>
2022	Center for Brain, Biology, and Behavior Seminar Series, <b>University of Nebraska at Lincoln</b>
2022	Carle Illinois Advanced Imaging Center Seminar Series, <b>Carle Illinois Advanced Imaging Center</b>
2022	Peter O'Donnell Jr. Brain Institute, <b>University of Texas Southwestern Medical Center</b>
2022	Department of Psychology, <b>The Catholic University of America</b>
2022	Department of Psychology, <b>Florida State University</b>
2021	Department of Psychology & Center for Innovative Research in Autism, <b>University of Alabama</b>
2019	Berenson-Allen Center for Non-invasive Brain Stimulation, <b>Beth Israel Deaconess Medical Center</b>
2019	Simons Center for the Social Brain Lunch-time Lecture Series, <b>Massachusetts Institute of Technology</b>
2018	Simons Center for the Social Brain Presentation to Jim & Marilyn Simons (Simons Foundation for Autism Research Initiative, SFARI), <b>Massachusetts Institute of Technology</b>
2018	Stoodley Lab, Department of Psychology, <b>American University</b>
2018	Sinha Lab, Department of Brain and Cognitive Science, <b>Massachusetts Institute of Technology</b>
2018	Learning & Emotional Assessment Program (LEAP), <b>Massachusetts General Hospital</b>
2017	Sinha Lab, Department of Brain and Cognitive Science, <b>Massachusetts Institute of Technology</b>
2017	The Communication Neuroscience Research Lab, <b>Boston University</b>
2016	Dystonia and Speech Motor Control Lab, <b>Icahn School of Medicine, Mount Sinai</b>
2016	Division of Stress Neurobiology, <b>Children's Hospital of Philadelphia</b>
2015	The Developmental Cognitive Neuroscience Lab, Department of Psychology, <b>Georgetown University</b>
2015	Autism Symposium, College of Arts and Sciences, <b>American University</b>
2015	Lab of Peter Strick, Department of Neurobiology, <b>University of Pittsburgh</b>

## TEACHING

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**University of Texas at Dallas**

2023 Seminars in Psychology: Brain and Language (HCS 7355.004)

### **Guest Lectures**

2019 "Language", Psychology 9.00 (MIT)  
2017 "tDCS principles and design", Cognitive Neuroscience with Lab (American University)  
2016 "Basic Drives", Psychology as a Natural Science (American University)  
2016 "Hypothalamus – Drives & Motivation", Neuroscience Brain and Behavior (American University)  
2016, 2017 "Structural Imaging Analysis in SPM: Statistical Analysis", Cognitive Neuroscience (American University)  
2016, 2017 "Structural Imaging Analysis in SPM: Preprocessing" Cognitive Neuroscience (American University)  
2015 "Neural Basis of Human Vision", Psychology as a Natural Science (American University)  
2015 "Motivation", Psychology as a Natural Science (American University)  
2014 "Research Methods and Scientific Research", Psychology as a Natural Science (American University)  
2014 "Human Development", Psychology as a Natural Science (American University)  
2014 "Autism", Psychology as a Natural Science (American University)  
2014 "Cellular and Genetic Basis of Autism", Advanced Developmental Neuroscience (American University)  
2014 "Hypothalamus", Neuroscience: Brain and Behavior (American University)

### **Technical Training Lectures**

2019 SPM – Preprocessing, Modeling, and Statistics (MIT, Gabrieli Lab)  
2018 Basics of fMRI acquisition (MIT, Gabrieli Lab)

### **Teaching Assistantships**

2016, 2017 Cognitive Neuroscience with Lab (American University)  
2015, 2016 Neurobiological Bases of Behavior (American University)  
2015 Neuroscience of Autism (American University)  
2014 Advanced Developmental Neuroscience (American University)  
2014 – 2016 Neuroscience: Brain and Behavior (American University)  
2012 – 2015 Psychology as a Natural Science (American University)

## **STUDENTS AND MENTORING**

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### **Selected Mentored Students (Mentored position – Current position)**

Brianne Drury (Undergraduate Student, AU – Medical School, Wayne State University)  
Stephanie Martin (Undergraduate Student, AU – Junior Program Analyst, ANSER)  
Christina Thomas (Master's Student, AU – Postdoctoral Fellow, Massachusetts General Hospital)  
Dora Moore (Master's Student, AU – Genetic Counseling)  
Isabelle Frosch (Research Assistant, MIT – PhD in Clinical Psychology, Northwestern University)  
Dayna Wilmot (Research Assistant, MIT – Masters in Business Analytics, MIT)  
Hannah Grotzinger (Research Assistant, MIT – PhD in Psychology, UC Santa Barbara)  
Jimmy Capella (Research Assistant, MIT – PhD in Psychology, UNC Chapel Hill)  
Halie Olson (Doctoral Student, MIT)  
Steven Miesler (Doctoral Student, Harvard & MIT)

### **Dissertation Committee Membership**

2022 – Present Annette Glotfelty (Cognition and Neuroscience, University of Texas at Dallas)  
Committee Member; Primary advisors: Steven Small, PhD & Jeremy Skipper, PhD

### **Undergraduate Thesis Membership**

2022 – Present Ranya Siddiqi (Brain and Behavioral Sciences Honors Thesis, University of Texas at Dallas)  
Second Reader; First reader: Peter Tsai, M.D., Ph.D

## **SERVICE & PROFESSIONAL ACTIVITIES**

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### **Editorial Positions**

2020 – **Review Editor**, *Frontiers in Neuroscience (Section on Neurodevelopment)*

2021 – 2022 **Guest Associate Editor**, *Frontiers in Human Neuroscience*  
*Research Topic: Predictive mechanisms in action, perception, cognition, and clinical disorders*  
*Eds. Anila D'Mello, Liron Rozenkrantz, Phil Corlett, Patric Bach*

### **Invited Reviewer**

### Journals

*Biological Psychiatry; Biological Psychiatry: CNNI; Cerebral Cortex; Scientific Reports; NeuroImage; Human Brain Mapping; Cerebellum; Frontiers in Human Neuroscience; Frontiers in Neuroscience; Frontiers in Psychology; Frontiers in Psychiatry; Autism Research; Social Cognitive and Affective Neuroscience; European Journal of Neuroscience; Journal of Neurophysiology; Brain Imaging and Behavior; Neuroscience and Biobehavioral Reviews; Neuropsychopharmacology; Brain Connectivity; Neuropsychologia; Social Neuroscience; Neurocase; Cognitive, Affective, and Behavioral Neuroscience; Developmental Cognitive Neuroscience; Translational Psychiatry*

### Grants

French National Research Agency (ANR) – Panel CE28 – “Cognition, comportements, langage”  
LSVT (Lee Silverman Voice Treatment) Global Grant Competition

### Consulting

2020 – 2022 Independent scientific expert contractor, Lumos Labs, Inc.

### Other Service

2018 – Alumni Interviewer, Georgetown University Alumni Admissions Program

## **SOCIETY MEMBERSHIPS**

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Society for Neuroscience (SfN); Society for the Neurobiology of Language (SNL); Association for Women in Science (AWIS); Cognitive Neuroscience Society (CNS); International Society for Autism Research (INSAR); Organization for Human Brain Mapping (OHBM); Psi Chi – Psychology Honors Society

## **PROFESSIONAL DEVELOPMENT & CERTIFICATIONS**

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**Path to Professorship Workshop**, Massachusetts Institute of Technology

**Greenberg Ph.D. Seminars for Effective Teaching**, American University

**FMRI Visiting Fellowship Program at Massachusetts General Hospital**, Athinoula A. Martinos

Center for Biomedical Imaging

**Magnetic Resonance Imaging Certification**, Athinoula A. Martinos Imaging Center, Massachusetts Institute of Technology

**Magnetic Resonance Imaging Safety Training**, Center for Functional and Molecular Imaging, Georgetown University

**MIT Science Policy Initiative Executive Visit Day**, Massachusetts Institute of Technology

## **PRESS COVERAGE**

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- 2022 **Scientific American, “Is a Diagnostic Test to Blame for Why We Know So Little about Autism in Girls?”**  
Covered findings from *D’Mello et al., (2022) Autism Research*.  
<https://www.scientificamerican.com/article/is-a-diagnostic-test-to-blame-for-why-we-know-so-little-about-autism-in-girls/>
- 2022 **The Hill, “Women are underrepresented in autism research, and the disparity could lead to underdiagnosis”**  
Covered findings from *D’Mello et al., (2022) Autism Research*.  
<https://thehill.com/changing-america/well-being/prevention-cures/3636271-women-are-underrepresented-in-autism-research-and-the-disparity-could-lead-to-underdiagnosis/>
- 2022 **US News & World Report, “Screening Test Leads to Fewer Women Included in Autism Studies”**  
Covered findings from *D’Mello et al., (2022) Autism Research*.  
<https://www.usnews.com/news/health-news/articles/2022-09-12/screening-test-leads-to-fewer-women-included-in-autism-studies>
- 2022 **MIT News, “Studies of autism tend to exclude women, researchers find”**  
Covered findings from *D’Mello et al., (2022) Autism Research*.  
<https://news.mit.edu/2022/studies-autism-tomen-bias-0908>
- 2021 **Guest on *Noncompliant – the podcast***  
Invited as a guest on popular neurodiversity podcast along with Dr. Liron Rozenkrantz to answer questions and discuss *Rozenkrantz, D’Mello, & Gabrieli (2021) TICS* paper on “hyperrationality” in autism.



<https://noncompliantpodcast.com/2021/08/24/there-are-a-lot-of-areas-autism-researchers-have-viewed-as-deficits-that-can-actually-confer-advantages-talking-with-mit-researchers-anila-dmello-and-liron-rosenkrantz/>

- 2021 **Spectrum News, “The benefits of special interests in autism”**  
Covered findings from on-going research in the Gabrieli lab led by D’Mello and colleagues into using special interests to potentiate the language network in children with autism spectrum disorders.  
<https://www.spectrumnews.org/features/deep-dive/the-benefits-of-special-interests-in-autism/>
- 2020 **Brain Scan, “Embracing neurodiversity to better understand autism”**  
Quarterly newsletter by the McGovern Center for Brain Research at MIT which covered ongoing research on the ability of special interests to potentiate the language network in children with autism.  
<https://mcgovern.mit.edu/2020/03/02/embracing-neurodiversity-to-better-understand-autism/>
- 2018 **Spectrum News, “Notable papers in autism research in 2018”**  
*Stoodley, D’Mello, et al., (2018) Nature Neuroscience* chosen as one of the 10 most notable papers of 2018 as selected by autism researchers.  
<https://www.spectrumnews.org/features/special-report/notable-papers-autism-research-2018/>
- 2017 **The Sponsored Research Monthly, “Graduate Spotlight: Anila D’Mello”**  
Blog post from the Office of Sponsored Programs Monthly Newsletter at American University.  
<https://auospblog.wordpress.com/2017/05/23/graduate-spotlight-anila-dmello/>
- 2017 **Spectrum News, “Study of cerebellum’s role in autism homes in on ‘social’ region”**  
Covered findings from *Stoodley, D’Mello, et al., (2018) Nature Neuroscience*.  
<https://www.spectrumnews.org/news/study-cerebellums-role-autism-homes-social-region/>
- 2014 **Spectrum News, “Researchers refine cerebellum’s role in autism”**  
Covered findings from *D’Mello et al., (2015) Autism Research*.  
<https://www.spectrumnews.org/news/researchers-refine-cerebellums-role-in-autism/>

## FOREIGN LANGUAGES

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Italian (*Fluent*)  
French (*Proficient*)