Tanya M. Evans, Ph.D.

Curriculum Vitae 2/2023

University of Virginia School of Education and Human Development Center for the Study of Teaching and Learning Center for Healthy Brain Development Ridley Hall 126, 405 Emmet Street South P.O. Box 800784 Charlottesville, VA 22904 610.360.2015 tanya@virginia.edu

EDUCATION

Ph.D., Neuroscience, 2013 Georgetown University, Washington, D.C. Dissertation: *The brain basis of arithmetic, reading and reading disability*

B.S., Chemical Engineering, 2003

Lehigh University, Bethlehem, PA

PROFESSIONAL APPOINTMENTS

2017 – present	Assistant Professor
	University of Virginia
	Center for Advanced Study of Teaching and Learning
	Co-Director, Center for Healthy Brain Development
	School of Education and Human Development
	Departments of Psychology & Neurology (by courtesy)
	Charlottesville, VA
2013 – 2017	Postdoctoral Fellow
	Stanford University School of Medicine
	Child and Adolescent Psychiatry
	Palo Alto, CA

PUBLICATIONS

Jirout, J., Eisen, S., Robertson, Z., **Evans**, T.M. (2022). Mother-child synchrony is high across child executive function levels for both physical and digital spatial play. *Trends in Neuroscience and Education*. doi: 0.1016/j.tine.2022.100183

Marzoratti, A.**, **Evans**, T.M. (2022). Measurement of interpersonal physiological synchrony in dyads: A review of timing parameters used in the literature. *Cognitive, Affective, & Behavioral Neuroscience*. doi: 10.3758/s13415-022-01011-1

Janacsek, K., **Evans**, T.M., Kiss, M., Shah, L.**, Blumenfeld, H., & Ullman, M.T. (2022). Subcortical cognition: the fruit below the rind. *Annual Review of Neuroscience*. doi: <u>10.1146/annurev-neuro-110920-013544</u>

Xiong, B., Chen, C., Tian, Y., Zhang, S., Liu, C., **Evans**, T.M., Fernández, G., Wu, J., & Qin, S. (2021). Brain preparedness: The proactive role of the cortisol awakening response. *Prog. Neurobiol.* 102127. <u>doi:</u> 10.1016/j.pneurobio.2021.102127

Lampi, A.J., Jaswal, V.K., & **Evans**, T.M. (2021). How closely related are parent and child reports of child alexithymia? *Frontiers in Psychology*. doi: <u>10.3389/fpsyg.2020.588001</u>

Earle, F.S., Del Tufo, S.N., **Evans**, T.M., Lum, J.A.G., Cutting, L.E.*, & Ullman, M.T.* (2020). Domaingeneral learning and memory substrates of reading acquisition. *Mind, Brain and Education*. *equal contributions doi: <u>10.1111/mbe.12234</u>

Jirout, J., LoCasale-Crouch, J., Turnbull, K., Gu, Y., Cubides, M., Garzione, S., **Evans**, T.M., Weltman, A., & Kranz, S. (2019). How lifestyle factors affect cognitive and executive function and the ability to learn in children. *Nutrients*, 11(8), 1953. doi: <u>10.3390/nu11081953</u>

Krafnick, A.J. & Evans, T.M. (2019). Neurobiological sex differences in developmental dyslexia. *Frontiers in Psychology*, 219(3), 1041–1054. doi: <u>10.3389/fpsyg.2018.02669</u>

Skeide, M.A., **Evans**, T.M., Mei, E.Z.**, Abrams, D.A., & Menon, V. (2018). Neural signatures of cooccurring reading and mathematical deficits. *Developmental Science*, e12680. doi: <u>10.1111/desc.12680</u>

Botham, C.M., **Evans**, T.M. (2018). How to design a winning fellowship proposal. *Nature Careers*. doi: 10.1038/d41586-018-07297-x

Battista, C.*, **Evans**, T.M.*, Ngoon, T.J.**, Chen, T., Chen, L., Kochalka, J., & Menon, V. (2018). Mechanisms of interactive specialization and emergence of functional brain circuits supporting cognitive development in children. *Nature Partner Journals: Science of Learning*, *3*(1). doi: <u>10.1038/s41539-017-0017-2</u> *equal contributions

Chen, L., Bae, S.R., Battista, C., Qin, S., Chen, T., **Evans**, T.M., & Menon, V. (2018). Positive attitude toward math supports early academic success: behavioral evidence and neurocognitive mechanisms. *Psychological Science*. doi: <u>10.1177/0956797617735528</u>

Evans, T.M., Flowers, D.L., Luetje, M.M., Napoliello, E., & Eden, G.F. (2016). Functional neuroanatomy of arithmetic and word reading and its relationship to age. *NeuroImage*, *143*, 304–315. doi: <u>10.1016/j.neuroimage.2016.08.048</u>

Evans, T.M. & Ullman, M.T. (2016). An extension of the procedural deficit hypothesis from developmental language disorders to mathematical disability. *Frontiers in Psychology*, 7, 1318. doi: 10.3389/fpsyg.2016.01318

Jolles, D.*, Ashkenazi, S.*, Kochalka, J., **Evans**, T.M., Richardson, J., Rosenberg-Lee, M., Zhao, H., Supekar S., Chen, T., & Menon, V. (2016). Parietal hyper-connectivity, aberrant brain organization, and circuit-based biomarkers in children with mathematical disabilities. *Developmental Science*, *19*(4), 613–631. doi: <u>10.1111/desc.12399</u> *equal contributions

Evans, T.M., Kochalka, J., Ngoon, T.J.**, Wu, S.S., Qin, S., Battista, C., & Menon, V. (2015). Brain structural integrity and intrinsic functional connectivity forecast 6 year longitudinal growth in children's numerical abilities. *The Journal of Neuroscience: The Official Journal of the Society for Neuroscience*, *35*(33), 11743–11750. doi: <u>10.1523/JNEUROSCI.0216-15.2015</u>

Eden, G.F., Olulade, O.A., **Evans**, T.M., Krafnick, A.J., & Alkire, D.R. (2015). Imaging studies of reading and reading disability. In A. W. Toga (Ed.), *Brain Mapping* (pp. 571–578). Academic Press. doi: 10.1016/B978-0-12-397025-1.00065-8

Eden, G.F., Olulade, O.A., **Evans**, T.M., Krafnick, A.J., & Alkire, D.R. (2015). Developmental dyslexia. In G. Hickok & S. L. Small (Eds.), *The Neurobiology of Language* (pp. 815-822). Academic Press. doi: 10.1016/B978-0-12-407794-2.00065-1

Evans, T.M., Flowers, D.L., Napoliello, E.M., Olulade, O.A., & Eden, G.F. (2014). The functional anatomy of single-digit arithmetic in children with developmental dyslexia. *NeuroImage*, *101*, 644–652. Academic Press. doi: <u>10.1016/j.neuroimage.2014.07.028</u>

Evans, T.M., Flowers, D.L., Napoliello, E.M., & Eden, G.F. (2014). Sex-specific gray matter volume differences in females with developmental dyslexia. *Brain Structure & Function*, *219*(3), 1041–1054. doi: 10.1007/s00429-013-0552-4

Ullrich, L., Dumanis, S.B., **Evans**, T.M., Jeannotte, A.M., Leonard, C., Rozzi, S.J., Taylor, C.M., Gale, K., Kanwal, J. S., Maguire-Zeiss, K.A., Wolfe, B.B., & Forcelli, P.A. (2014). From student to steward: the Interdisciplinary Program in Neuroscience at Georgetown University as a case study in professional development during doctoral training. *Medical Education Online*, *19*, 22623. doi: <u>10.3402/meo.v19.22623</u>

**mentee co-author

MANUSCRIPTS UNDER REVIEW

Marzoratti, A.**, Liu, M.**, Krol, K., Sjobeck, G., Connelly, J., Boker, S., Pelphrey, K., **Evans**, T.M. Methylation of parental oxytocin receptors is associated with neural synchrony between parent-child dyads during interactive gameplay. *Developmental Cognitive Neuroscience* call for papers: "Child Social Interactions in Context: Novel methods and empirical work."

Shah, L.**, Marzoratti, A.**, Sjobeck, G., Boker, S., Pelphrey, K., Krafnick, A., **Evans**, T.M. Interpersonal Neural Synchrony Between Parent and Child Differentially Predicts Aspects of Children's Reading Skills. *Developmental Science* call for papers: "Special Issue on The Nature of Love."

Marzoratti, A.**, Min, H., **Evans**, T.M. Talking technology with teachers: Adult-teaching principles and relational skills among Virginia instructional technology coaches. Paper accepted for AERA 2023 Meeting-Interrogating Consequential Education Research in Pursuit of Truth.

Evans, T.M., Earle, F.S., Del Tufo, S.N., Lipscomb, D.W.**, Lum, J.A.G., Ullman, M.T.*, & Cutting, L.E.* Arithmetic outcome predicted by children's early learning and memory. *equal contributions

Hao, L., Zhou, Y., Chen, X., Qiu, J., Luo, W., Zhuang, L., Xu, J., Chen, M., Wang, Y., Luo, J., Tan, S., Gao, J., He, Y., **Evans**, T.M., Fan, J., Tao, S., Dong, Q., & Qin, S. Mapping neural specialization and generalizable representations in children's attention development.

**mentee co-author

RESEARCH FUNDING

Ongoing

- 2022 2027 National Institute of Mental Health/ National Institute of Neurological Disorders and Stroke Autism Center of Excellence Network: Neurodevelopmental Biomarkers of Late Diagnosis in Female and Gender Diverse Autism Objective: accelerate identification of adolescents and adults with ASD who have traditionally been missed or misdirected in the diagnostic process Role: Co-Investigator PI: Kevin Pelphrey R01MH100028 \$12,331,452
- 2020 2025 National Institute of Child Health and Human Development Longitudinal Investigation into Declarative and Procedural Memory Brain Systems Supporting the Development of Math Skills Objective: conduct longitudinal fMRI investigation of brain substrates underlying math, declarative and procedural memory in elementary school children Role: Principal Investigator Multi-PI: Ian Lyons R01HD100429 \$2,983,880

Completed

 2019 – 2021 Supporting Transformative Autism Research Pilot Award University of Virginia Parent-Child Brain Synchrony in Autism Spectrum Disorders Objective: evaluate dyadic brain synchrony as a potential biomarker for social engagement in parents and children with autism Role: Principal Investigator \$99,424

2019 – 2021 National Center for Advancing Translational Sciences Brain Synchrony in Autism Spectrum Disorders Objective: train in mobile EEG data acquisition for dyadic experiments Role: KL2 Scholar Investigator Mentors: Kevin Pelphrey & Steven Boker KL2TR003016 \$282,515

 2018 – 2020 Smith Richardson Foundation A Kindergarten-Based Lottery Evaluation of Core Knowledge Charter Schools Objective: evaluate the impact of a core knowledge curriculum on children's math and reading skills Role: Co-Investigator PI: David Grissmer \$328,728

2018 – 2019 3 Cavaliers

 University of Virginia
 Brain Synchrony During Student-Teacher Interactions
 Objective: conduct feasibility testing for subsequent in-classroom mobile EEG
 work, apply for external funding to fund full study
 Role: Co-Principal Investigator
 Co-PIs: Robert Pianta, Wynn Legon
 \$60,000

- 2017 2019 National Science Foundation Developmental Skills Linked to Math and Science Achievement: An Interdisciplinary Data-Intensive Approach to Identification and Improvement Through Experimental Intervention Objective: evaluate the impact of a core knowledge curriculum on children's math and reading skills Role: Co-Investigator PI: David Grissmer \$2,499,248
- 2015 2017 Ruth L. Kirschstein National Research Service Award Neurodevelopmental Basis of Persistent Mathematical Learning Disabilities National Institute of Child Health and Human Development Objective: examine the cognitive and neural profile of persistent low math skills from childhood to adolescence Role: Principal Investigator Mentor: Vinod Menon F32HD080367

\$170,166

2014 – 2015 Stanford Child Health Research Institute Postdoctoral Fellowship Neurodevelopmental Basis of Persistent Mathematical Learning Disabilities Objective: examine the cognitive and neural profile of persistent low math skills from childhood to adolescence Role: Principal Investigator \$50,000

AWARDS and HONORS

2022 – 2024 2019 – 2021	National Institutes of Health Loan Repayment Program Renewal Award integrated Translational Health Research Institute of Virginia (iTHRIV) KL2 Career
	Development Award
2017 - 2019	National Institutes of Health Loan Repayment Program Award
2015 - 2017	NIH NRSA Postdoctoral Fellow
2014 - 2015	Children's Health Research Institute (CHRI) Postdoctoral Fellow, Stanford University
2013	Apprenticeship in Teaching, Georgetown University
2007 - 2009	Graduate Dean's Pre-thesis Fellow, Georgetown University

TALKS

International Max Planck Research School on the Life Course (LIFE) Academy, Berlin, Germany (virtual), "School Readiness and Brain Development," October 2020.

Georgetown University, Department of Psychology, Washington, DC, "Longitudinal Profiles of Brain Networks Supporting Children's Academic Skills," October 2018.

University of Delaware, School of Education, Newark, DE, "Longitudinal Profiles of Brain Networks Supporting Children's Academic Skills," October 2018.

International Mind, Brain and Education Society, University of Southern California, Los Angeles, CA, "Domain-General Skills in Education: Psychology, Education and Neuroscience Perspectives," September 2018.

Mathematical Cognition and Learning Society, University of Oxford, UK, "Early Childhood General Knowledge: A Domain-General Mechanism for Long-Term Achievement in Arithmetic and Reading," April 2018.

Science and Art of Grant Writing Symposium, Stanford University, Palo Alto, CA, "A Formula for Success," August 2017.

Learning and the Brain, San Francisco, CA, "Brain Bases of Longitudinal Growth in Math Abilities and Positive Mindset," February 2016.

Yale University, Haskins Laboratories, New Haven, CT, "Brain Networks Supporting the Acquisition of

Skilled Reading and Arithmetic," November 2015.

University of Wisconsin, Madison, Department of Psychology, "Brain Networks Supporting the Acquisition of Skilled Reading and Arithmetic," October 2015.

Johns Hopkins University, CogNeuro Research Lab, Baltimore, MD, "Brain Networks Supporting the Acquisition of Skilled Reading and Arithmetic," August 2015.

Winter Conference on Brain Research, Big Sky, Montana, "The Learning Brain: Cognitive Neuroscience for the Educational System," January 2015.

University of Oxford Department of Experimental Psychology Seminar, Oxford, UK, "Intact Language Networks Support the Acquisition of Both Skilled Reading and Arithmetic," September 2014.

Cardiff University Brain Research Imaging Centre, Cardiff, UK, "Intact Language Networks Support the Acquisition of Both Skilled Reading and Arithmetic," September 2014.

Inter-Science of Learning Center Conference, Philadelphia PA, "Common Neural Substrates of Arithmetic and Reading," March 2013.

CONFERENCE ACTIVITY

Liu, M.**, Marzoratti, A**., Krol, K., Sjobeck, G., Boker, S., Connelly, J., Pelphrey, K. **Evans**, T.M. 2023. Methylation of the parental oxytocin receptor gene is associated with parent-child neural synchrony during gameplay. Association for Psychological Science, Washington, D.C.

Marzoratti, A.**, Sjobeck, G., Boker, S., **Evans**, T.M. 2023. Effects of Differing Degrees of Direct Parental Support During Arithmetic Problem Solving on Children's Performance. Mathematical Cognition and Learning Society, Loughborough, U.K.

Ullman, M.T., **Evans**, T.M., Kiss, M., Shah, L.**, Blumenfeld, H., Janacsek, K. 2022. Subcortical contributions to language: the fruit below the rind. Society for the Neurobiology of Language, Philadelphia, PA.

Marzoratti, A.**, Sjobeck, G.R., **Evans**, T.M. 2022. Examining the mechanisms for the effects of parent-child neural synchrony during child mathematical processing. Organization for Human Brain Mapping, Glasgow, Scotland, U.K.

Marzoratti, A.**, Sjobeck, G.R., **Evans**, T.M. 2022. Characterizing the associations between parent-child neural synchrony and child math processing. Mathematical Cognition and Learning Society, Antwerp, Belgium.

Jordan, R., Sukhodolsky, D.G., Wolff, J., **Evans**, T.M., Pelphrey, K., Eilbott, J. 2022. Task-based functional connectivity predicts language ability of autistic and typically-developing adolescents using connectome-based predictive modeling. International Society for Autism Research, Austin, TX.

Morrel, J.**, Krafnick, A., J., **Evans**, T.M. 2021. Functional brain differences due to familial history of dyslexia: a meta-analysis. (virtual) Society for Neuroscience, Chicago, IL.

Xia, R.**, Chen, R.**, Stockwell, K.M., Hofkens, T., **Evans**, T.M. 2020. Characterizing Social Interaction Via Dyadic Hyperscanning Techniques. (virtual) Cognitive Neuroscience Society, Boston, MA.

Lampi, A.J., Shah, L.**, Jaswal, V.K., **Evans**, T.M. 2019. Educating about Neurodiversity: Incorporating Autistic Perspectives into the Classroom. Society for Neuroscience, Chicago, IL.

Krafnick, A.J., & **Evans**, T.M. 2019. Sex and DYX1C1 genotype effects on pediatric cortical thickness and surface area. Organization for Human Brain Mapping, Rome, Italy.

Ullman, M.T., **Evans**, T.M., Shah, L.**, Kiss, M., Blumenfield, H., Janacsek, K. 2018. The fruit below the rind: The importance of subcortical structures in cognition. Cognitive Neuroscience Society, San Francisco, CA.

Grissmer, D.W., & Evans, T.M. 2018. Early childhood general knowledge: A domain-general mechanism for long-term achievement in arithmetic and reading. EARLI Special Interest Group (SIG) 22: Neuroscience and Education, London, UK.

Mei, E.Z.**, **Evans**, T.M., Skeide, M.A., Kochalka, J., Chen, L., Beidelman, M., Schaer, M., Menon, V. 2018. Reading ability modulates the brain network of children with mathematical difficulties. EARLI Special Interest Group (SIG) 22: Neuroscience and Education, London, UK.

Abrams, D.A., Kochalka, J., Chen, T., Bhide, S., **Evans**, T.M., Ryali, S., & Menon, V. 2017. Intrinsic functional architecture of Wernicke's, Broca's, and Geschwind's areas of the human speech network. Organization for Human Brain Mapping, Vancouver, BC, Canada.

Evans, T.M., & Ullman, M.T. 2017. An extension of the procedural deficit hypothesis from developmental language disorders to mathematical disability. Cognitive Neuroscience Society, San Francisco, CA.

Evans, T.M., Abrams, D.A., Kochalka, J., Chen, L., Kaushal, S.**, Battista, C., & Menon, V. 2016. Multiple cognitive networks anchored in the visual word form area. Organization for Human Brain Mapping, Geneva, Switzerland.

Evans, T.M.*, Schaer, M.*, Kochalka, J., Ngoon, T.J.**, Chen, L., Battista, C., & Menon, V. 2015. Cortical maturation accompanying individual differences in longitudinal development of children's reading ability. Neurobiology of Language, Chicago, IL. *equal contributions

Battista, C., Ngoon, T.J.**, Chen, T., Chen, L., Baker, A., Kochalka, J., **Evans**, T.M., & Menon, V. 2015. Interactive specialization and the development of functional systems supporting complex cognitive skills in children. Society for Neuroscience, Chicago, IL.

Bae, S., Schaer, M., Beidelman, M., **Evans**, T.M., Zeineh, M., Battista, C., & Menon, V. 2015. Dorsal damage - ventral compensation: A longitudinal case study examining structural reorganization of left superior temporal and bilateral fusiform gyri induced by perinatal infarct in occipito-parietal cortex. Society for

Neuroscience, Chicago, IL.

Chen, L., Bae, S., Battista, C., **Evans**, T.M., & Menon, V. 2015. Behavioral and neurobiological correlates of positive mindset in children. Society for Neuroscience, Chicago, IL.

Bae, S., Schaer, M., Beidelman, M., **Evans**, T. M., Zeineh, M., Battista, C., & Menon, V. 2015. Dorsal damage - ventral compensation: structural reorganization of left superior temporal and bilateral fusiform gyri induced by perinatal infarct in occipito-parietal cortex. International Conference on Pediatric Acquired Brain Injury, Liverpool, U.K.

Evans, T.M.*, Schaer, M.*, Kochalka, J., Ngoon, T.J.**, Mei, E.Z.**, Menon, A.**, Sarukkai, M.**, Beidelman, M., Battista, C., & Menon, V. 2015. Cortical maturation accompanying individual differences in longitudinal development of children's mathematical ability. Organization for Human Brain Mapping, Honolulu, Hawaii. *equal contributions

Battista, C., Ngoon, T.J.**, Chen, T., Chen, L., Kochalka, J., **Evans**, T.M., & Menon, V. 2015. Emerging brain systems supporting cognition: A longitudinal study of mental arithmetic. Organization for Human Brain Mapping, Honolulu, Hawaii.

Chen, L., Bae, S., Battista, C., **Evans**, T.M., & Menon, V. 2015. When good meets bad: The neural correlates of positive attitude and anxiety towards math in young children. Organization for Human Brain Mapping, Honolulu, Hawaii.

Evans, T.M., Kochalka, J., Ngoon, T.J.**, Qin, S., Battista, C., & Menon, V. 2014. Predicting longitudinal gains in math skills with brain structure and intrinsic connectivity. Society for Neuroscience, Washington, D.C.

Battista, C., **Evans**, T.M., Ngoon, T.J.**, Chen, T., & Menon, V. 2014. Six-year longitudinal growth-curve modeling of functional brain changes during problem solving in children. Society for Neuroscience, Washington, D.C.

Evans, T.M., Kochalka, J., Vellanki, N.**, Ngoon, T.J.**, Battista, C., & Menon, V. 2014. Intrinsic connectivity to the visual word form area and the putative visual number form area. Society for the Neurobiology of Language, Amsterdam, The Netherlands.

Evans, T.M., Olulade, O.A., Koo, D.S., & Eden, G.F. 2012. Effects of sensory and signed language experience on the neural basis of visual motion processing. Society for Neuroscience, New Orleans, LA.

Forcelli, P.A., Connor, T., Dumanis, S.B., **Evans**, T.M., Krafnick, A. J., Smirnov, M., Ullrich, L., & Gale, K. 2012. Teaching as a "Want-To" Rather Than a "Have-To." Society for Neuroscience, New Orleans, LA.

Evans, T.M., Ingala, E., Flowers, D.L., & Eden, G.F. 2012. Common neural substrates of reading and arithmetic. Organization for Human Brain Mapping, Beijing, China.

Evans, T.M., Flowers, D.L., Napoliello, E.M., Einbinder, E., & Eden G.F. 2011. Developmental changes underlying calculation: an fMRI study. Society for Neuroscience, Washington, D.C.

Evans, T.M., Flowers, D.L., Luetje, M., Napoliello, E.M., & Eden, G.F. 2011. Operation specificdevelopment of arithmetic processing and its relationship to word reading. Neurobiology of Language, Annapolis, MD.

Gerner, T.M., Brar, J., Kalbfleisch, M.L., & Vanmeter, J.W. 2009. Classification of subtypes in a pediatric sample with autism spectrum disorders. Organization for Human Brain Mapping, San Francisco, CA.

Gerner, T.M., Wall, A.E., Napoliello, E.M., Flowers, D.L., & Eden, G.F. 2008. The anatomical profile of dyslexic females: a voxel-based morphometry study. Society for Neuroscience, Washington, D.C.

**mentee co-author

NEWS and MEDIA

"Looking Into the Brain to Help Understand Math Learning and Memory," CBS19 News, May 4, 2021.

"Study: What Brain Scans Reveal About Learning Math," Laura Hoxworth, UVA Today, May 4, 2021.

"iTHRIV Scholar Spotlight: Tanya Evans, 2019 Cohort," Keith Jones, *integrated Translational Health Research Institute of Virginia Newsletter*, Fall 2020.

"Q&A: Predicting Academic Outcomes: Neuroimaging Provides Novel Insights," Meeri Kim, *Blog on Learning & Development*, November 2018.

"Q&A: What Can the Brain Teach Us About How Children Learn?" Laura Hoxworth, UVA Today, March 7, 2018.

"Math and Dyslexia," interviewed by Dr. Fernette Eide, co-founder of *Dyslexia Advantage* charitable organization, October 31, 2016.

"Struggled in Algebra Class? You May Have a 'Math Disability," interviewed on WNYC Public Radio International's program *The Takeaway* with John Hockenberry, October 5, 2016.

"Math Difficulties May Reflect Problems in a Crucial Learning System in the Brain," *Science Daily*, September 15, 2016.

"This is Your Brain on Math," Kevin Hartnett, Boston Globe, September 17, 2015.

"Brain Scans May Predict Math Gains in Children, Study Finds," Maggie Fox, NBC News, August 18, 2015.

"Dyslexic Brain May Solve Some Math Problems in a Roundabout Way," Laura Sanders, *Science News*, September 23, 2014.

"Brain Anatomy of Dyslexia is Not the Same in Men and Women, Boys and Girls," *Science Daily*, May 8, 2013.

TEACHING and MENTORING

University of Virginia

<u>Teaching</u>	
Ad hoc lectures	
2021	Cognitive Psychology and Education, "Neuroscience in Education" (undergraduate and graduate students)
2020	Cognitive Psychology and Education, "Technology & Learning: Mobile EEG Demo" (undergraduate and graduate students)
2018 - 2019	Neurodevelopmental Disorders, "Co-morbid Learning Disabilities in Reading and Mathematics" (undergraduate students)
Mentoring	
2022 – present	Mentor, Raj Joshi (undergraduate student, Biology/Pre-Med)
2022 – present	Mentor, Gabby Snetkov (undergraduate student, Neuroscience)
2022 – present	Mentor, Isabelle Meeks (undergraduate student, Biology/Computer Science)
2022 - present	Mentor, Sarah Song (undergraduate student, Biology)
2022 - present	Mentor, Songy Choi (undergraduate student, Biology)
2022 - present	Mentor, Gavin Ryno (undergraduate student, Neuroscience)
2022 - present	Mentor, Emma Diehl (undergraduate student, Cognitive Science)
2021 - 2022	Mentor, Christina Cucolo (undergraduate student, Chemistry)
2021 - present	Mentor, Ava Hogan (undergraduate student, Pre-Med)
2021 - present	Mentor, Nathan Geng (undergraduate student, Neuroscience)
2021 - present	Mentor, Lucas Huvnh (undergraduate student, Neuroscience)
2021 - present	Mentor, Renee Pen (undergraduate student, Biology)
2021 - present	Mentor, Cara Grady (undergraduate student, Biology)
2021 - present	Mentor, Analia Marzoratti (PhD student, Educational Psychology – Applied
I	Developmental Science)
2020 – present	Mentor, Jessica Morrel (undergraduate student, Psychology)
2019 - 2022	Mentor, Y-Minh Nguyen (undergraduate student, Figure Sology)
2019 - present	Mentor, Megan Liu (undergraduate student, Neuroscience)
2019 - 2020	Mentor, Sarah Paquette (undergraduate student, Kinesiology)
2019 - 2020	Mentor, Ruohan Xia (master's student, Educational Psychology – Applied
2017 2020	Developmental Science)
2018 – present	Mentor Leela Shah (undergraduate student Echols Interdisciplinary Major –
2010 present	Developmental Cognitive Neuroscience)
2018 - 2020	Mentor, Runzhi Chen (master's student, Educational Psychology – Applied
	Developmental Science)
Committee Member	ship
2021	Dissertation Committee Member. Sara Medina-DeVilliers (PhD student, Clinical
	Psychology)
2020 – present	Dissertation Committee Member, Nauder Namaky (PhD student, Clinical Psychology)
2020 – present	Dissertation Committee Member, Gus Sjobeck (PhD student, Quantitative Psychology)
2020 – present	Comprehensives and Dissertation Committee Member. Ian Becker (PhD student.
. 1	Developmental Psychology)
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Tanya M. Evans, Ph.D.

2020 Dissertation Committee Member, Robert Moulder (PhD student, Quantitative Psychology)

Stanford University

<u>Teaching</u>	
2015	Senior Instructor, Grant Writing Academy, Writing Compelling Fellowships and Career
	Development Awards (graduate students and postdoctoral fellows)
2014	Instructor, Grant Writing Academy, Writing Compelling Fellowships and Career
	Development Awards (graduate students and postdoctoral fellows)
Ad hoc lectures	
2015	Brain Training: Hype or Help? "Developmental Dyslexia: Neuroanatomy, Training and
	Co-morbidity" (undergraduate students)
2013	Mathematical Cognition, "Cognitive Neuroscience of Numerical Abilities"
	(undergraduate students)

Mentoring

2015 - 2018	Mentor, Edward Mei (undergraduate student)
2016 - 2017	Co-Mentor, Julia Kang (research assistant)
2015 - 2016	Co-Mentor, Shivani Kaushal (research assistant)
2015	Co-Mentor, Adi Menon (high school student)
2014 - 2016	Co-Mentor, Mayuka Sarukkai (undergraduate student)
2014	Co-Mentor, Mounika Narayanan (high school student)
2014	Mentor, Neha Vellanki (undergraduate student)
2014	Co-Mentor, Samantha Hoffman (undergraduate student)
2013 - 2015	Co-Mentor, Tricia Ngoon (research assistant)

Georgetown University

Teaching	
2009 - 2013	Course Coordinator, Introduction to Cognitive Science (undergraduate students)
Ad hoc lectures	
2013 - 2015	Introduction to Cognitive Science, "Numerical Cognition and Dyscalculia"
	(undergraduate students)
2009 - 2013	Systems & Cognitive Neuroscience, "Human Cognition Lab" (graduate students)
2012	Drugs, Brain & Behavior, "Executive Function" (undergraduate students)
2010 - 2012	Introduction to Cognitive Science, "Neuroanatomy and Neural Circuits" (undergraduate students)
2009 - 2012	Neuroscience Summer Course, "Neuroanatomy Laboratory" (graduate students)
2009	Diseases/Disorders of the Brain, "Developmental Language Disorders" Graduate Student
	Directed Course (undergraduate students)

K-12 Teaching

2006 - 2007	Substitute Instructor, Kelly Educational Staffing (K-12 students)
2005 - 2006	Private Tutor, Self Employed (K-12 students)
2005	Classroom and Private Tutor, Kaplan Test Prep (high school students)

OTHER RESEARCH EXPERIENCE

2008	Special Volunteer, National Institute of Mental Health, Bethesda, MD
2006	Research Assistant, University of Delaware, Newark, DE

SERVICE TO PROFESSION

2022	Reviewer, National Institute of Child Health and Human Development, Biobehavioral and Behavioral Sciences Study Section
2022	Reviewer, National Institute of Child Health and Human Development, Special Emphasis Panel: Learning Disabilities Innovation Hubs Reissue
2021	Reviewer, National Institute of Child Health and Human Development, Human Complex Mental Function Study Section
2020 – present	Consulting Editor, Elements – The International Journal of Applied Educational Research
2020	Reviewer, Israel Science Foundation
2019	Reviewer, integrated Translational Health Research Institute of Virginia (iTHRIV)
	Community Seed Grant Program
2019	Ad hoc reviewer, National Science Foundation
2015	Invited Workshop Participant, Science of Learning: Integration and Synthesis, National Science Foundation, Arlington, VA
2013	Invited Workshop Participant, Science of Learning: Prospects, National Science Foundation National Science Foundation Arlington VA
2011 - 2012	Chair, Student Grant Review Committee, National Science Foundation Visual Language Visual Learning Science of Learning Center

UNIVERSITY SERVICE

2020	Member, Admissions Committee, Educational Psychology – Applied Developmental
	Science PhD Program, University of Virginia
2015 - 2016	Member, Stanford University Faculty Senate Committee on Research
2014 - 2016	Council Member, Stanford University Postdoctoral Association
2014	Planning Committee Member, Stanford University Teaching Academy
2009 - 2013	Program Coordinator, Interdisciplinary Program in Cognitive Science, Georgetown University
2007 - 2011	Member, Executive Committee, Interdisciplinary Program in Neuroscience, Georgetown University
2008 - 2010	President, Interdisciplinary Program in Neuroscience Student Organization, Georgetown University

OUTREACH

2017 – present	Member, Special Education Advisory Committee, Albemarle County, VA
2015	Invited Panelist, "A Panel on Developmental Disorders: Identifying and Tackling
	Children's Learning Challenges," Stanford Professional Women, Palo Alto, CA
2013 - 2014	Volunteer, Science is Elementary, Mountain View, CA
2012	Anatomy Demonstrator, Howard Hughes Pre-college Program, Washington, D.C.

2010 - 2012	Judge, Key School Science Fair, Washington, D.C.
2007 - 2009	Tutor, EVOL (Education + VOLunteers is a reflection of LOVE), Washington, D.C.

INDUSTRY EXPERIENCE

2015 - 2017	Consultant, eCarrot
2003 - 2005	Engineer, Akzo Nobel Chemicals Inc., Dobbs Ferry, NY
2002 - 2003	Systems Engineer, Diagnostic Products Corporation, Flanders, NJ

AD HOC REVIEWER

Applied Psycholinguistics Brain and Language Cerebral Cortex Child Development Cortex Developmental Cognitive Neuroscience European Journal of Neuroscience Frontiers in Human Neuroscience Frontiers in Neuroscience Frontiers in Psychology Human Brain Mapping Journal of Abnormal Psychology Journal of Cognitive Education and Psychology NeuroImage Neuropsychologia Mind. Brain and Education PLOS ONE Psychonomic Bulletin and Review Science Advances Trends in Neuroscience and Education

PROFESSIONAL MEMBERSHIPS

EARLI Special Interest Group (SIG) 22: Neuroscience and Education FLUX: The International Society for Integrated Developmental Cognitive Neuroscience International Mind, Brain and Education Society The Mathematical Cognition and Learning Society Organization for Human Brain Mapping Society for Neuroscience Society for the Neurobiology of Language