Tracy Riggins, Ph.D.

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Department of Psychology
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CURRENT POSITION

2016 – present Associate Professor of Psychology, University of Maryland, College Park

PREVIOUS POSITIONS

2008 – 2016 Assistant Professor of Psychology, University of Maryland, College Park
2007 – 2008 Postdoctoral Fellow, University of Maryland School of Medicine and NIDA-IRP
2005 – 2007 Postdoctoral Fellow, M.I.N.D. Institute, University of California, Davis

EDUCATION

2000 – 2005 Ph.D., Child Psychology
Institute of Child Development, University of Minnesota
Advisors: Patricia J. Bauer, Ph.D. and Charles A. Nelson, Ph.D.
Dissertation: A neurobehavioral investigation of autobiographical memory development: Contributions of source memory and memory for temporal order

1996 – 2000 B.S., Psychology, Minor in Biology
University of California, San Diego
Magna Cum Laude and Psychology Departmental Honors

HONORS/AWARDS

2021 College of Behavioral and Social Sciences "Be The Solution Award," University of Maryland
2021 Psychology Department Outstanding Research Faculty Mentor Award, University of Maryland
2020 Elevate Fellow, University of Maryland
2019 Philip Merrill Presidential Scholars Faculty Mentor Award
2004 Doctoral Dissertation Fellowship, University of Minnesota
2003 Thomas F. Wallace Fellowship, University of Minnesota

PUBLICATIONS

bold indicates student, *indicates equal contribution; Note: I have formerly published under the name DeBoer, T.

Geng, F. & Riggins, T. (in press). Interactions between the hippocampus and fronto-parietal regions during memory encoding in early childhood. *Hippocampus.*

Canada, K., Hancock, G., & Riggins, T. (in press). Modeling longitudinal changes in hippocampal subfields and relations to memory from early- to mid-childhood. *Developmental Cognitive Neuroscience.*

Rollins, L. & Riggins, T. (2021). Adapting event-related potential research paradigms for children: Considerations from research on the development of recognition memory. *Developmental Psychobiology, 63(6),* e22159. http://dx.doi.org/10.1002/dev.22159

Mason, G. M., **Lokhandwala, S.,** Riggins, T., & Spencer, R. M. C. (2021). Sleep and cognition in human development. *Sleep Medicine Reviews, 57,* 101472. https://doi.org/10.1016/j.smrv.2021.101472

Hubachek, S., Botdorf, M., Riggins, T., Leong, H., Klein, D., & Dougherty, L. (2021) Hippocampal

subregion volume in high-risk offspring is associated with increases in depressive symptoms across the transition to adolescence. *Journal of Affective Disorders*. 281:358-366. doi: 10.1016/j.jad.2020.12.017

Geng, F., **Botdorf, M.,** & Riggins, T. (2020). How behavior shapes the brain and the brain shapes behavior: Insights from memory development. *Journal of Neuroscience.* DOI: 10.1523/JNEUROSCI.2611-19.2020

Chad-Friedman, E., Botdorf, M., Riggins, T., & Dougherty, L.R. (2020). Parental hostility predicts reduced cortical thickness in males. *Developmental Science,* 148, 107636. doi: 10.1016/j.neuropsychologia.2020.107636. Epub.

Feola, B., Dougherty, L. R., Riggins, T., & Bolger, D. J. (2020). Prefrontal cortical thickness mediates the association between cortisol reactivity and executive function in childhood. *Neuropsychologia*.

Callow, D. D., Canada, K. L., & Riggins, T. (2020). Microstructural integrity of the hippocampus during childhood: Relations with age and source memory. *Frontiers in Psychology, 11,* 568953. doi: 10.3389/fpsyg.2020.568953

Riggins, T., & Spencer, R. M. C. (2020). Habitual sleep is associated with both source memory and hippocampal subfield volume during early childhood. *Scientific Reports,* 10, 15304. https://doi.org/10.1038/s41598-020-72231-z

Canada, K. L., Botdorf, M., & Riggins, T. (2020). Longitudinal development of hippocampal subregions from early- to mid-childhood. *Hippocampus, 30,* 1098-111. http://dx.doi.org/10.1002/hipo.23218

Canada, K. L., Pathman, T., & Riggins, T. (2020). Longitudinal development of memory for temporal order during early to middle childhood [Special issue]. *The Journal of Genetic Psychology, 181(4),*237-254. doi: 10.1080/00221325.2020.1741504 PMCID: PMC7446139

Chad-Friedman, E., Botdorf, M., Riggins, T., & Dougherty, L.R. (2020). Early childhood cumulative risk is associated with decreased global brain measures, cortical thickness, and cognitive functioning in school-age children. *Developmental Psychobiology.* doi: 10.1002/dev.21956. Online ahead of print.

Riggins, T., **Canada, K. L., & Botdorf, M.** (2020). Empirical evidence supporting neural contributions to episodic memory development in early childhood: Implications for childhood amnesia. *Child Development Perspectives, 14*(1), 41-48. https://doi.org/10.1111/cdep.12353

Canada, K. L., Geng, F., & Riggins, T. (2020). Age- and performance-related differences in source memory retrieval during early childhood: Insights from event-related potentials. *Developmental Psychobiology. 62(6),* 723-736. https://doi.org/10.1002/dev.21946

Howard, L., Riggins, T., & Woodward, A. (2020). Learning from others: The effects of agency of event memory in young children. *Child Development*. https://doi.org/10.1111/cdev.13303

Barry-Anwar, R., Riggins, T. & Scott, L.S. (2020). Electrophysiology in developmental populations: Key methods and findings. To appear in *The Oxford Handbook of Developmental Cognitive Neuroscience* (K. Cohen Kadosh, Ed.), Oxford, UK.

Riggins, T. & Scott, L. S. (2020). P300 development from infancy to adolescence. *Psychophysiology,* 57(7), e13336. http://dx.doi.org/10.1111/psyp.13346

Blankenship, S.*, Botdorf, M.*, Riggins, T., Dougherty, L. (2019). Lasting effects of stress on the brain: Cortisol reactivity during preschool predicts hippocampal functional connectivity at school age. *Developmental Cognitive Neuroscience.* DOI: 10.1016/j.dcn.2019.100736 PMC6974891 *indicates equal contribution.

Botdorf, M., Riggins, T., & Dougherty, L. R. (2019). Early positive parenting and maternal depression history predict children's relational binding ability at school-age. *Developmental Psychology, 55(11),* 2417-2427.

Chen, G., Xiao, Y., Taylor, P. A., Rajendra, J.K., Riggins, T., Geng, F., Redcay, E., & Cox, R. W. (2019). Handling multiplicity in neuroimaging through Bayesian lenses with hierarchical modeling. *Neuroinformatics, 17(4),* 515-545. doi: 10.1007/s12021-018-9409-6.

Allard, T.*, Riggins, T.*, Ewell, A., Weinberg, B., **Lokhandwala, S.,** & Spencer, R. M. (2019). Measuring neural mechanisms underlying sleep-dependent memory consolidation during naps in early childhood. *JoVE Journal of Visualized Experiments, (152),* e60200, doi:10.3791/60200. *indicates equal contribution.

Bauer, P. J., Dugan, J. A., Varga, N. L, & Riggins, T. (2019). Relations between neural structures and children's self-derivation of new knowledge through memory integration. *Developmental Cognitive Neuroscience. 36,* 100611. https://doi.org/10.1016/j.dcn.2018.12.009

Stern, J. A., Botdorf, M., Cassidy, J., & Riggins, T. (2019). Empathy and hippocampal volume in young children [Special issue]. *Developmental Psychology, 55,* 1908-1920. http://dx.doi.org/10.1037/dev0000684

Geng, F., Redcay, E., & Riggins, T. (2019). The influence of age and performance on hippocampal function and the encoding of contextual information in early childhood. *NeuroImage, 195,* 433-443.

Blankenship, S., Chad-Friedman, E., Riggins, T., & Dougherty, L.R. (2019). Early parenting predicts hippocampal subregion volume via stress reactivity in childhood. *Developmental Psychobiology, 61(1),* 125-140. https://doi.org/10.1002/dev.21788 *NOTE: Winner of the 2019 Hennessy-Smotherman Wiley Best Student Paper Award

Canada, K. L., Ngo, C. T., Newcombe, N. S., Geng, F., & Riggins, T. (2019). It's all in the details: Relations between young children's developing pattern separation abilities and hippocampal subfield volumes. *Cerebral Cortex, 29*(8), 3427-3433. https://doi.org/10.1093/cercor/bhy211

Botdorf, M. & Riggins, T. (2018). When less is more: Thinner fronto-parietal cortices are associated with better forward digit span performance during early childhood. *Neuropsychologia. 121,* 11-18. https://doi.org/10.1016/j.neuropsychologia.2018.10.020

Zorn, E. P., Zhang, L., Sandness, K., Miller, N., Riggins, T., Georgieff , M. K., & Pfister, K. M. (2018). Preserved speed of processing and memory in infants with a history of moderate neonatal encephalopathy treated with therapeutic hypothermia. *Journal of Perinatology. 38(12),* 1666-1673. doi: 10.1038/s41372-018-0253-1.

Xiao, Y., Geng, F., Riggins, T., Chen, G., & Redcay, E. (2018). Neural correlates of developing theory of mind competence in early childhood. *NeuroImage, 184,* 707-716.

Riggins, T., Geng, F., **Botdorf, M., Canada, K.,** Cox, L., & Hancock, G. R. (2018). Protracted hippocampal development is associated with age-related improvements in memory during early childhood. *NeuroImage, 174*, 127-137. DOI: 10.1016/j.neuroimage.2018.09.079

Geng, F., **Canada, K.**, & Riggins, T. (2018). Age- and performance-related differences in encoding during early childhood: Insights from event-related potentials. *Memory, 26(4),* 451-461. DOI:10.1080/09658211.2017.1366526

Geng, F., Salmeron, B. J., Ross, T., Black, M., & Riggins, T. (2018). Long-term effects of prenatal drug exposure on the neural correlates of memory at encoding and retrieval. *Neurotoxicology and Teratology, 65,* 70-77. DOI: 10.1016/j.ntt.2017.10.008

Ngo, C.T., Alm, K.H., Metoki, A., Hampton, W., Riggins, T., Newcombe, N.S., & Olson, I.R. (2017). White matter structural connectivity and episodic memory in early childhood. *Developmental Cognitive Neuroscience, 28,* 41-53. DOI:10.1016/j.dcn.2017.11.001

Rollins, L., & Riggins, T. (2017). Age-related differences in subjective recollection: ERP studies of encoding and retrieval. *Developmental Science, 21*(3). DOI: 10.1111/desc.12583

Robey, A. & Riggins, T. (2017). Increasing relational memory in childhood with unitization strategies. *Memory & Cognition, 46*(1), 100-111. DOI 10.3758/s13421-017-0748-6.

Blankenship, S. L., Redcay, E., Dougherty, L. R., & Riggins, T. (2017). Development of hippocampal functional connectivity during childhood. *Human Brain Mapping, 38,* 182-201. DOI: 10.1002/hbm.23353

Rollins, L., & Riggins, T. (2016). Cohort-sequential study of conflict inhibition during middle childhood. *International Journal of Behavioral Development*. 41(6), 663-669. DOI: 10.1177/0165025416656413

Robey, A., & Riggins, T. (2016). Event -related potential study of intentional and incidental retrieval of item and source memory during early childhood. *Developmental Psychobiology, 58*(5), 556-567. DOI: 10.1002/dev.21401

Riggins, T., Geng, F., **Blankenship, S. L.,** & Redcay, E. (2016). Hippocampal functional connectivity and episodic memory in early childhood. *Developmental Cognitive Neuroscience, 19*, 58-69. DOI:10.1016/j.dcn.2016.02.002

Schweitzer, J., Riggins, T., Ross, T. J., Black, M., & Saleron, B. J. (2015). Interpretation of prenatal drug exposure functional imaging data. *Neurotoxicology and Teratology, 52,* 58-59. DOI:10.1016/j.ntt.2015.10.006

Blankenship, S. L., & Riggins, T. (2015). Developmental differences in relations between parent-reported executive function and unitized and non-unitized memory representations during childhood. *Frontiers in Psychology, section Developmental Psychology, 6*, 1-10. DOI:10.3389/fpsyg.2015.01214

Riggins, T., **Blankenship, S. L.,** Mulligan, E., **Rice, K.,** & Redcay, E. (2015). Developmental differences in relations between episodic memory and hippocampal subregion volume during early childhood. *Child Development, 86*(6), 1710-1718. DOI:10.1111/cdev.12445

Riggins, T., & **Rollins, L.** (2015). Developmental changes in recollection and familiarity during early childhood:

Insights from event-related potentials. *Child Development, 86, 889–902.*

Rollins, L., & Riggins, T. (2015). Processing and rejection of novel items in childhood: Event-related potential study of similar lures and novel foils. *Developmental Psychobiology*, 57(2), 263-270. DOI 10.1002/dev.21281

Schweitzer, J., Riggins, T., Liang, X., Gallen, C., Kurup, P. K., Ross, T. J., Black, M., Nair, P., & Salmeron, B. J. (2015). Prenatal drug exposure to illicit drugs alters working memory-related brain activity and underlying network properties in adolescence. *Neurotoxicology and Teratology, 48,* 69-77. DOI:10.1016/j.ntt.2015.02.002

Robey, A., Buckingham-Howes, S., Salmeron, B. J., Black, M.M., & Riggins, T. (2014). Relations between prospective memory, cognitive abilities, and brain structure in adolescents who vary in prenatal drug exposure. *Journal of Experimental Child Psychology, 127,* 144–162. DOI:10.1016/j.jecp.2014.01.008

Wong, L., Riggins, T., Harvey, D., Cabaral, M., & Simon, T. J. (2014). Children with Chromosome 22q11.2 Deletion Syndrome exhibit impaired spatial working memory. *American Journal on Intellectual and Developmental Disabilities, 119*(2), 115–132.

Rice, K., Viscomi, B., Riggins, T., & Redcay, E. (2014). Amygdala volume linked to individual differences in mental state inference in early childhood and adulthood. *Developmental Cognitive Neuroscience,* 8, 153-163. DOI:10.1016/j.dcn.2013.09.003

Riggins, T. (2014). Longitudinal investigation of source memory reveals different developmental trajectories for item memory and binding. *Developmental Psychology, 50(2),* 449-459. DOI:10.1037/a0033622

Riggins, T., Cheatham, C. L., Stark, E., & Bauer, P. J. (2013). Elicited imitation performance at 20 months predicts memory abilities in school age children. *Journal of Cognition and Development, 14*(4), 593-606. DOI:10.1080/15248372.2012.689392

Riggins, T. & Nelson, C. A. (2013). Memory in at-risk populations: Infants who experience metabolic disturbances during the prenatal period. In P. J. Bauer & R. Fivush (Eds.), *Handbook on the Development of Children's Memory* (pp. 1017- 1043). Wiley-Blackwell. DOI: 10.1002/9781118597705.ch43

Rollins, L., & Riggins, T. (2013). Developmental changes in memory encoding: insights from event-related potentials. *Developmental Science, 16(4),* 1-12. DOI:10.111/desc.12072

Riggins, T., **Rollins, L., & Graham, M.** (2013). Electrophysiological investigation of source memory in early childhood. *Developmental Neuropsychology, 38(3),* 180–196. DOI:10.1080/87565641.2012.762001

Riggins, T., Cacic, K., Buckingham-Howes, S., Scaletti, L. A., Salmeron, B. J., & Black, M. (2012). Memory ability and hippocampal volume in adolescents with a history of poly-drug exposure during the prenatal period. *Neurotoxicology and Teratology, 34*(4), 434-441. DOI:10.1016/j.ntt.2012.05.054

Riggins, T. (2012). Building blocks of recollection. In S. Ghetti & P. J. Bauer (Eds.), *Origins and Development of Recollection: Perspectives from Psychology and Neuroscience.* (pp.42-72). New York, NY: Oxford University Press. DOI:10.1093/acprof:oso/9780195340792.003.0003

Balas, B., Nelson, C. A., Westerlund, A., Vogel-Farley, V., Riggins, T., & Kuefner, D. (2010). Personal

familiarity influences the processing of upright and inverted faces in infants. *Frontiers in Human Neuroscience, 4*, 1-6.

Ackerman, J. P., Riggins, T., & Black, M. M. (2010). A review of the effects of prenatal cocaine exposure among school-aged children. *Pediatrics, 125(3),* 554-565. DOI:10.1542/peds.2009-0637

Riggins, T., Bauer, P.J., Georgieff, M.K., & Nelson, C.A. (2010). Declarative memory performance in infants of diabetic mothers. In P.J. Bauer (Ed.), *Advances in child development and behavior, Volume 38 - Varieties of early experience: Implications for the development of declarative memory in infancy.* London, U.K.: Elsevier. DOI:10.1016/b978-0-12-374471-5.00004-0

Riggins, T., Miller, N. C., Bauer, P. J., Georgieff, M. K., & Nelson, C. A. (2009). Consequences of maternal diabetes mellitus and neonatal iron status on children's explicit memory performance. *Developmental Neuropsychology, 34*(6), 762–779. DOI:10.1080/87565640903265145

Riggins, T., Miller, N. C., Bauer, P. J., Georgieff, M. K., & Nelson, C. A. (2009). Electrophysiological indices of memory for temporal order in early childhood: Implications for the development of recollection. *Developmental Science, 12*(2), 209-219. DOI:10.1111/j.1467-7687.2008.00757.x

Simon, T.J., Takarae, Y., *DeBoer, T., McDonald-McGinn, D.M., Zackai, E.H., Ross, J.L. (2008). Overlapping numerical cognition impairments in Chromosome 22q11.2 Deletion and Turner Syndromes. *Neuropsychologia, 46*(1), 82-94. DOI:10.1016/j.neuropsychologia.2007.08.016

*DeBoer, T., Wu, Z., Lee, A., & Simon, T. J. (2007). Hippocampal volume reduction in children with Chromosome 22q11.2 Deletion Syndrome is associated with cognitive impairment. Behavioral and Brain *Functions,* 3(1), 54. DOI:10.1186/1744-9081-3-54

*DeBoer, T., Scott, L.S., & Nelson, C.A. (2007). Methods for acquiring and analyzing infant event-related potentials. In: Michelle de Haan (Ed.). *Infant EEG and event-related potentials.* (pp. 5-37). New York: Psychology Press.

Bauer, P. J., *DeBoer, T., & Lukowski, A. F. (2007). In the language of multiple memory systems, defining and describing developments in long-term explicit memory. In Lisa M. Oakes & Patricia J. Bauer (Eds.), *Short- and long-term memory in infancy and early childhood: Taking the first steps towards remembering* (pp. 240-270). New York: Oxford University Press.

Richmond, J., & *DeBoer T. (2006). Mechanisms of change: Exploring not only when and what, but how declarative memory develops. *Infant and Child Development*, *15*(2), 207-210. DOI:10.1002/icd.437

*DeBoer, T., Wewerka, S., Bauer, P. J., Georgieff, M. K., & Nelson, C. A. (2005). Explicit memory performance in infants of diabetic mothers at 1 year of age. *Developmental Medicine and Child Neurology,* 47(8), 525-531. DOI:10.1111/j.1469-8749.2005.tb01186.x

Lukowski, A. F., Wiebe, S. A., Haight, J. C., *DeBoer, T., Nelson, C. A., & Bauer, P. J. (2005). Forming a stable memory representation in the first year of life: Why imitation is more than child's play. *Developmental Science, 8*(3), 279-298. DOI:10.1111/j.1467-7687.2005.00415.x

*DeBoer, T., Scott, L. S., & Nelson., C. A. (2005). Event-related potentials in developmental populations. In Todd Handy (Ed.). *Methodological handbook for research using event-related potentials* (pp. 263-297). Cambridge, MA: The MIT Press.

EXTERNAL GRANTS

Current:

Principal Investigator: Collaborative Research: Hippocampal Development and Sleep-Dependent Memory Consolidation in Preschoolers, MPI: Tracy Riggins, Rebecca Spencer, University of Massachusetts, Amherst, NSF, Social, Behavioral, and Economic Sciences, BCS 1749280, 5/17/2018 through 5/16/22, UMD total costs $489,261 (UMass total costs $109,815)

Collaborator: The effects of acute aerobic exercise on hippocampal function and microstructure in older adults, PI: Daniel Callow, NIH F31AG074670

Co-Sponsor: Interaction of physical activity and sleep in early childhood and their influence on cognition and the hippocampus. PI: Christine St. Laurent, NIH F32HD105384

Completed:

Co-Investigator: 3/5 The Cumulative Risk of Substance Exposure and Early Life Adversity on Child Health Development and Outcomes, PI: Nathan Fox, University of Maryland, NIH NIDA R34DA050285, 9/30/2019-3/29/2021, UMD total costs $264,055

Principal Investigator: Hippocampal Development and Sleep-Dependent Memory Consolidation In Preschoolers. MPI: Tracy Riggins, Rebecca Spencer, University of Massachusetts, Amherst, R21, NICHD HD094758 3/1/2018 through 2/29/2020, total costs across sites $423,208

Principal Investigator: Hippocampal-memory Network Development and Episodic Memory in Early Childhood. (R01), NICHD HD079518, 5/1/2014 through 4/30/2020, $1,542,995 (total costs)

Consultant: The Development and Neural Bases of Pattern Separation and Relational Memory. PI Chi Ngo, NIH F31 HD090872-01

Principal Investigator: Neural Correlates of Risk Taking in Adolescents Exposed to Drugs Prenatally. NIDA I/START DA029113, 8/1/2010 through 7/31/2012, $232,173 (total costs)

Principal Investigator: Neurobehavioral Investigation of Recollection and Familiarity in Early Childhood. NICHD R03 HD067425, 1/1/2011 through 12/31/2013, $150,000 (total costs)

INTERNAL GRANTS

2021	Faculty-Student Research Award ($10,000), University of Maryland
2020	Maryland Neuroimaging Center Seed Grant, University of Maryland
2013	Dean's MRI Research Initiative Award ($45,000), University of Maryland
2013	Research and Scholarship Award (RASA), University of Maryland
2012	Maryland Neuroimaging Center Seed Grant ($12,000), University of Maryland
2012	ADVANCE Research Award ($20,000), University of Maryland
2011	Dean's Research Initiative Award ($40,000), University of Maryland
2009	General Research Board (GRB) Award, University of Maryland, Graduate School

EDITORIAL ACTIVITIES

Editorial Boards:

Cognitive Development (2014-present)

Ad hoc journal review:

PLOS One, Neuroscience Letters, Psychophysiology, Brain, Memory, Developmental Science, Journal of Cognitive Neuroscience, Child Development, Journal of Experimental Psychology: Learning, Memory, and Cognition, Cognition, Neuropsychologia, International Journal of Behavioral Development, Developmental Cognitive Neuroscience, JINS (official journal of the International Neuropsychological Society), Psychophysiology, Developmental Neuroscience, Human Brain Mapping, Hippocampus, Proceedings of the National Academy of Science (PNAS), Journal of Neuroscience, Cognitive Development, Journal of Abnormal Child Psychology, Pediatrics, eLife, Genetic Psychology

PROFESSIONAL ACTIVITIES

Grant review:

Member of the Biobehavioral & Behavioral Sciences Sub-Committee [NIH-CHHD-H] (2016-2021)
Office of Independent Research Fund Denmark, Danish Agency for Higher Education and Science (2021)
National Science Foundation (2015, 2019, 2021)
Natural Sciences and Engineering Research Council of Canada (2017)
National Institutes of Health, Cognition and Perception Study Section, Ad hoc member (2015, 2016)

Conference review:

Cognitive Science Society
Society for Research in Child Development
International Society on Infant Studies
Cognitive Development Society

Secretary, Cognitive Development Society (elected, 2017-2022)

Participant, Early Childhood National Summit, University of Florida (2017)

INVITED ACADEMIC PRESENTATIONS

2021 5th International Conference of Human Brain Development (ICHBD 2021) Key note speaker, Beijing, China, *Hippocampal-memory network development and episodic memory in early childhood: Age-related changes and individual variation* (virtual presentation due to COVID-19 pandemic)

2021 Max Planck Institute for Human Development, Lifespan Psychology, Berlin, Germany, *Development of hippocampal subfields in early childhood: Relations with memory and individual differences* (virtual presentation due to COVID-19 pandemic)

2021 University of New South Wales, School of Psychology, Sydney, Australia, *Hippocampal-memory network development and episodic memory in early childhood: Age-related changes and individual variation* (virtual presentation due to COVID-19 pandemic)

2021 University of Toronto, Department of Psychology, Ebbinghaus Empire Cognitive and Cognitive Neuroscience Colloquium series, Toronto, Ontario, Canada, *Hippocampal-memory network development and episodic memory in early childhood: Age-related changes and individual variation* (virtual presentation due to COVID-19 pandemic)

2021 York University, Department of Psychology, Toronto, Ontario, Canada, *Hippocampal-memory network development and episodic memory in early childhood: Age-related changes and individual variation* (virtual presentation due to COVID-19 pandemic)

2021 The University of Sydney, School of Psychology, Carlson Lab, *EEG methods in early childhood* (virtual presentation due to COVID-19 pandemic)

2021 Children's Hospital of Pittsburgh/University of Pittsburgh Medical Center, Pediatric Radiology, *MRI methods in early childhood* (virtual presentation due to COVID-19 pandemic)

2021 Hippocampal Subfields Group Virtual Webinar Series (over 200 International Scientists), *Development of hippocampal subfields: Relations with memory and stress*

2020 University of California, Irvine, Department of Psychological Science, *Hippocampal-memory network development and episodic memory in early childhood: Age-related differences and individual variation* (postponed due to COVID-19 pandemic)
2019 University of Maryland, School of Medicine, Imaging Science Seminar, Baltimore, Maryland, *Hippocampal-memory network development and episodic memory in early childhood: Age-related differences and individual variation*
2019 Maryland Neuroimaging Retreat, University of Maryland, Baltimore, *Hippocampal-memory network development and episodic memory in early childhood*
2018 University of Massachusetts, Amherst, Psychological and Brain Sciences, *Hippocampal-memory network development and episodic memory in early childhood: Age-related differences and individual variation*
2018 University of California, Davis, Memory Development Summit, *Episodic memory in early childhood: Meaningful age-related and individual differences.*
2017 University of Iowa, Delta Center, *Hippocampal-memory network development and episodic memory in early childhood*
2016 University of Maryland, Bioscience Day, *Hippocampal-memory network development and episodic memory in early childhood*
2016 NeuroTech DC, NeurotechX - The International Neurotechonology Network, *Principles of Neuroscience: How memory develops in children*, (with graduate student Kelsey Canada)
2015 University of Iowa, Delta Center, *Implications of basic memory development research for applied purposes* (declined)
2015 University of Virginia, Cognitive Psychology, *Episodic memory development in early childhood: Insights from ERPs and fMRI*
2014 St. Mary's College of Maryland, *Neurobehavioral investigation of episodic memory in early childhood*
2013 University of Minnesota, Center for Neurobehavioral Development, *Episodic memory in early childhood: Insights from Magnetic Resonance Imaging*
2013 University of Arizona, *Neurobehavioral investigation of episodic memory in early childhood*
2011 University of Virginia, Developmental Psychology, *Neurobehavioral investigation of recollection and familiarity in early childhood*
2011 Cognitive Development Society, *Memory development and the brain: New methods to address old questions*, Philadelphia, PA
2010 University of Maryland, School of Medicine, Pediatrics, *Development of recollection in early childhood*

DIVERSITY ACTIVITIES

2020	Member, Advancing Anti-Racist Education Workshop and Discussion Series
2019	Mentor, Student Research Initiative, Morgan State University student, Oluwadunsin Akinyemi
2019	Discussion Leader, Promoting diversity in cognitive development, Cognitive Development Soc.
2019, 2020	Presenter, Enter the Terp Graduate School Workshop, University of Maryland
2019	Mentor, Scholar Development Program, Society for Research in Child Development
2018 - present	Mentor, Psychology Research Empowerment Program (Prep), University of Maryland, Laura Campos, Dylan Cooper
2017 - 2018	Mentor, McNair Scholar, Angel Tse
2014 - present	University of Maryland President's Commission on Women's Issues
2011 - 2012	Mentor, McNair Scholar, Sope Lan
2010 - 2013	Mentor, Louis Stokes Alliances for Minority Participation (LSAMP) program Bridge to the Doctorate, Vanessa Williams
2013	Speaker, University of Maryland Summer Diversity Conference

OPEN SCIENCE ACTIVITIES

2020 – Open Science Committee, Psychology Department, University of Maryland
Open source data for publications (on journal websites and by request)

Supporting and encouraging pre-registration, especially for student projects
Grant submission to make current dataset open access (OpenNeuro.org)

COMMUNITY EDUCATION AND BROADER ENGAGEMENT

2021 Psychology Department, Cognitive and Neural Systems Areas, Work/Life Balance
2019 Center for Young Children, University of Maryland, Lecture: *Babies 101*
2019 NASA Goddard Preschool, Lecture: *Memory, Sleep, and Brain Development*
2019 Lactation/Feeding Practices @ UMD Panel
2017 Psychology Department, Clinical and Counseling Areas, *Academia Work/Life Balance Panel*
2017 Kinesiology Department, UMD, Lecture: *Experience Lab: Parenthood and Research*
2016 - 2019 Anne Arundel County Public Schools, Lecture: *Brain Development*
2016 Consultant for Arena Stage and Mead Center for American Theater
2014 Infant and Child Studies Parent Group, Lecture: *What Parents Should Know about Memory Development*

PROFESSIONAL SOCIETY MEMBERSHIPS

2001-present Society for Research in Child Development (SRCD) *International
2003-present Cognitive Development Society (CDS)
2003-present Cognitive Neuroscience Society (CNS) *International
2016-present Developmental Cognitive Neuroscience Society (Flux Congress) *International

RESEARCH-RELATED TRAINING

2019 National Research Mentoring Network (NRMN) Mentor Workshop to promote training and career development of individuals from diverse backgrounds, communities, and cultures who are pursuing biomedical research careers.
2018 Structural Equation Modeling Workshop: First and Second Courses
2008 NIDA Short Course on the Genetics and Epigenetics of Addiction
2007 Analysis of Functional NeuroImages (AFNI) Boot camp
2007 Brain Electrical Source Analysis (BESA) workshop
2007 Laboratory Management Institute
2005 APA Advanced Training Institute: Functional Magnetic Resonance Imaging
2005 Summer Institute in Cognitive Neuroscience
2004 John Merck Fund Summer Institute on the Biology of Developmental Disabilities
2002 MATLAB Fundamentals and Programming Techniques
2001 High-Density Electrophysiological Data Collection and Analysis, EGI

TEACHING EXPERIENCE

University of Maryland

Developmental Cognitive Neuroscience (PSYC725/NACS728D), Psychology Department
Introduction to Developmental Psychology (PSYC355), Psychology Department
Cognitive Electrophysiology Seminar (PSYC888D), Psychology Department
Advanced Developmental Psychology (PSYC611), Psychology Department
Developmental Psychology Seminar (PSYC888A), Psychology Department

University of Minnesota

Introduction to Child Psychology, Institute of Child Development

INSTITUTIONAL SERVICE

2019 Developmental Area Faculty Search Committee, Department of Psychology
2018 – present Executive Committee, Neuroscience and Cognitive Science Program
2017 – 2019 Executive Committee, Department of Psychology

2017 – present Department of Psychology IRB Liaison, Chair
2016 – present Strategic Planning Committee, Neuroscience and Cognitive Science Program
2016 University of Maryland Undergraduate Researcher of the Year Selection Committee
2016 – 2017 Maryland Neuroimaging Center Scientific Director Review Committee
2014 University of Maryland Graduate Faculty Mentor of the Year Committee, Outstanding Director of Graduate Studies Committee, and Outstanding Coordinator of Graduate Studies Committee
2014 – present University of Maryland President's Commission on Women's Issues
2014, 2017 University of Maryland Research and Scholarship Award Committee
2013 University of Maryland Distinguished Dissertation Award Selection Committee
2013 & 2016 Merit Review Committee, Department of Psychology
2013-2014 Co-advisor for Developmental Science workshop entitled "Cognitive and Linguistic Development: Translations of Research for Educational Applications"
2012 Advisor to T.U.S.K. "Teaching Underrepresented Sciences to Kids" Student Organization
2011 Neuroscience Area Faculty Search Committee, Department of Psychology
2011 – 2012 Department Chair Search Committee, Department of Psychology
2011 – present Executive Committee, Graduate Field Committee in Developmental Science
2011 – 2016 Graduate Recruitment ("NACS-fest") Chair, Neuroscience and Cognitive Science Program
2011 – 2012 Brain and Behavioral Sciences Equipment Committee Chair, Department of Psychology
2010 Developmental Area Faculty Search Committee, Department of Psychology
2009 – 2010 Undergraduate Education Curriculum Committee, Department of Psychology
2009 – 2010 Graduate Admissions Committee, Neuroscience and Cognitive Science Program
2009 Developmental Area Faculty Search Committee, Department of Psychology
2009 Dean Search Committee, College of Behavioral and Social Sciences
2009 – present Faculty Recruitment and Hiring Committee, Department of Psychology

CURRENT ADVISING

Junior faculty

2020 - present Arianna Gard, Department of Psychology

Ph.D. students

2020 - present Jade Dunstan, Department of Psychology
2018 - present Tamara Allard, Department of Psychology
2016 - present Morgan Botdorff, Department of Psychology (University of Maryland Flagship Fellow, NSF Graduate Research Fellowship 2017)

Undergraduate students (from many Departments including: Psychology, Biology, Computer Science, Neurobiology and Physiology, Education, Special Education)
Paige Munshell (PSYC Honors, 2021 Outstanding Accomplishments in Psychology Award), Kathrine Coley (PSYC Honors, 2021 Outstanding Accomplishments in Psychology Award), Sanaa Amin, Kelly Corkery, Avery Arena, Sruthi Ganesh, Jenna Comer, Julia Wall, Emily Silverman, Rhea Tiwari, Allison Weber, Aliana Abel, Emily Herberholz, Meghna Pandey, Maya Kupritz, MaryEmily Ballas, Wendy Kelman

Student Committees

2020-2021 Morgan Botdorf, Department of Psychology, Dissertation Committee, Chair
Tamara Allard, Department of Psychology, Masters Thesis Committee, Chair
Paige Munshell, PSYC Honors Thesis Committee, Chair
Katherine Coley, PSYC Honors Thesis Committee, Chair
Rachael Tillman, Department of Psychology, Dissertation Committee
Megan Fitter, Department of Psychology, Dissertation Committee
Kathryn McNaughton, Neuroscience and Cognitive Science, Qualifying
Nicholas Marsh, Department of Psychology, Masters Committee

CONFERENCE PRESENTATIONS (last 5 years)

Botdorf, M. & Riggins, T. (2021, September). *Typical variations in stressful life events relate to smaller hippocampal subfield volumes in children.* Poster to be presented at the Flux Virtual Congress.

Riggins, T., Weinberg, B., Ewell, A., **Allard, T., Lokhandwala, S., Botdorf, M.,** & Spencer, R. M. C. (2021, June 17-19). *Sleep-dependent memory consolidation and hippocampal development in preschoolers.* Paper presented at the International Mind, Brain and Education Society (IMBES), Montreal, CA. *Cancelled due to the COVID-19 pandemic.

St. Laurent, C., **Lokhandwala, S., Allard, T.,** Ji, A., Riggins, T. & Spencer, R., (2021, April). *Associations between 24-hour Behavior Compositions, Memory and Hippocampal Volume in Preschoolers*. Oral presentation at the biennial meeting of the Society for Research in Child Development, Minneapolis, MN, Virtual.

Ji, A., Canada, K., Munshell, P., Coley, K., Dunstan, J., & Riggins, T. (2021, April 7-9). *Exploring the effects of napping on mnemonic discrimination during early childhood* [Poster presentation]. Society for Research in Child Development, Minneapolis, MN, Virtual.

Ewell, A.*, Allard. T.*, Botdorf, M., & Riggins, T. (April 2021). *Exploring neural mechanisms of emotion regulation in early childhood.* Oral presentation at the virtual biennial meeting of the Society for Research in Child Development, Minneapolis, MI.

Dunstan, J., Duncan, R., Amin, S., Fine. C., & Riggins, T. (2021, April). *Examining the relations between autobiographical memory and hippocampal volume in 4- to 7-year-old children.* Poster to be presented at the biennial meeting of the Society for Research in Child Development, Virtual Meeting.

Ewell, A., **Allard, T., Botdorf, M.,** & Riggins, T. (October 2020). *Relations between Parent-Reported Emotional Lability and Children's Cortical Thickness in Early to Mid-Childhood*. Poster presented at the annual meeting of the International Society for Developmental Psychobiology, Bethesda, MD.

Botdorf, M., Dougherty, L.R., & Riggins, T. (2020, September). *Examining associations between stressful life events and hippocampal subfield volumes using the ABCD cohort.* Poster presented at the Flux 2020 Virtual Congress, Santa Rosa, CA.

Allard, T., Meredith, L., Lokhandwala, S., Ewell, A., Weinberg, B., Spencer, R. & **Riggins, T.** (2020, September). *Is habitual nap status related to memory, sleep physiology, and hippocampal volumes during early childhood?* Poster presented at the Flux 2020 Virtual Congress, Santa Rosa, CA.

Lokhandwala, S., Allard, T., Spencer, R., Riggins, T. (2020, August). *Hippocampal Development, Slow Wave Activity, And Nap-dependent Memory Consolidation In Early Childhood*. Poster presentation at the annual SLEEP meeting, Philadelphia, PA.

Allard, T., Lokhandwala, S., Spencer, R., Riggins, T. (2020, August). *Sleep and Hippocampal Development in Early Childhood*. Oral presentation at the annual SLEEP meeting, Philadelphia, PA.

Chad-Friedman, E., Botdorf, M., Riggins, T., Dougherty, L.R. (May, 2020). *Parental hostility predicts reduced cortical thickness and surface area in boys but not girls.* Poster presented at the 32nd Association for Psychological Science Annual Convention, Chicago, IL.

Meredith, L., Allard, T., Riggins, T. (2020, April). *Exploring Hippocampal Structural Differences in Habitual vs Non-habitual Nappers During Early Childhood*. Poster presented at the 2020 Department of Psychology Undergraduate Research Fair, College Park, MD.

Karayianis, K., Ewell, A., **Allard, T.,** Weinberg, B., & Riggins. T. (2020, March). *Relations between hippocampal volume and story recall in early childhood*. Poster presented at the Eastern Psychological Association Annual Meeting, Boston, MA.

Lokhandwala, S., Fitzroy, A., Riggins, T., Spencer, R.M.C. (2019, November). *Topography of nap slow wave activity and nap-dependent changes in memory in preschool children*. Poster Presentation for 10th Biennial Pediatric Sleep Medicine Conference, Naples, FL.

Akinyemi, O. & Riggins, T. (2019, November). *Associations between sleep spindles and hippocampal volume in preschool-age children*. Poster presented at the Annual Biomedical Research Conference for Minority Students, Anaheim, CA.

Fine, C., Amin, S., Cox, L., & Riggins, T. (2019, October). *Relations between autobiographical memory and hippocampal subregion volumes in early childhood*. Poster presented at the biennial meeting of the Cognitive Development Society, Louisville, KY.

Ewell, A., **Allard, T.,** Weinberg, B., Riggins, T., Dougherty, L. (October, 2019). *The role of negativity in the relation between internalizing behaviors and the brain: A mediation model*. Poster presented at the annual meeting of the International Society for Developmental Psychology, Chicago, IL.

Canada, K., Botdorf, M., & Riggins, T. (October, 2019). *Developmental trajectories of temporal memory and hippocampal subregions*. Poster to be presented at the annual meeting of the International Society for Developmental Psychobiology, Chicago, IL.

Botdorf, M., Chad-Friedman E., Dougherty, L.R., & Riggins, T. (October, 2019). *Typical variations in stress impact hippocampal volume in young children*. Poster to be presented at the annual meeting of the International Society for Developmental Psychobiology, Chicago, IL.

Allard, T., Lokhandwala, S., Botdorf, M., Ewell, A., Weinberg, B., Spencer, R., & Riggins, T. (2019, October). *Relations between sleep, memory consolidation, and hippocampal development in early childhood*. Poster presented at the annual meeting of the International Society for Developmental Psychology, Chicago, IL.

Riggins, T., & **Canada, K.** (2019, October). *Longitudinal examination of associations between young children's pattern separation abilities and hippocampal subfield volumes*. Paper presented at the annual meeting of the Society for Neuroscience, Chicago, IL.

Botdorf, M., Geng, F., & Riggins, T. (2019, October). *Network analysis of memory and attention networks in the brain*. Paper presented at the annual meeting of the Society for Neuroscience, Chicago, IL.

Canada, K., Geng, F., & Riggins, T. (2019, October). *Longitudinal changes in hippocampal subfield volume predict improvements in memory ability during early to mid-childhood*. Paper presented at the annual meeting of the Society for Neuroscience, Chicago, IL.

Riggins, T., Weinberg, B., Ewell, A., **Allard, T., Lokhandwala, S., Botdorf, M., &** Spencer, R. M. C. (2019, October). *Sleep-dependent memory consolidation and hippocampal development in preschoolers*. Paper presented at the meeting of the Cognitive Development Society, Louisville, KY.

Canada, K., Botdorf, M., & Riggins, T. (2019, August). Longitudinal development of hippocampal subregions during early-childhood. Poster presented at Flux Congress, New York City, NY.

Botdorf, M., Chad-Friedman E., Dougherty, L.R., & Riggins, T. (2019, August). *Relations between typical variations in stress and hippocampal volume in young children.* Poster presented at Flux Congress, New York City, NY.

Allard, T., Lokhandwala, S., Botdorf, M., Ewell, A., Weinberg, B., Spencer, R., & Riggins, T. (2019, August). *Relations between hippocampal volume and sleep in early childhood.* Poster presented at the Flux Congress, New York City, NY.

Canada, K.L., Hancock, G.R., & Riggins, T. (May 2019). *Longitudinal changes in hippocampal subfield volume predict improvements in memory ability during early to mid-childhood*. Paper presented at The Spring Hippocampal Research Conference, Taormina, Sicily.

Antezana, O., Spiotta, A., Wong, A., Weinberg, B. E., & Riggins, T. (2019, April). *Sleep is for the week: The role of sleep on declarative memory in children.* Poster presented at Undergraduate Research Day, University of Maryland, College Park, MD**.**

Preilipper, S., El-Showk, V., Allard, T.L., & Riggins, T. (2019, April). *The development of item-location binding in 4-8 year old children.* Poster presented at University of Maryland Undergraduate Research Day, College Park, MD.

Rather, L., Canada, K., & Riggins, T. (2019, April). *The role of experience on attention and memory: Potential implications for cross-race misidentification.* Poster presented at Undergraduate Research Day at the University of Maryland, College Park, MD.

Patel, S., Karayianis, K., Botdorf, M., & Riggins, T. (2019, April). *Associations between cortical thickness & episodic memory in young children.* Poster presented at the University of Maryland Undergraduate Research Day, College Park, MD.

Badawi, S. M.*, Dombek, K.*, Strachan, A., Ewell, A., & Riggins, T. (2019, April). *Nap time factors and memory in young children*. Poster presented at University of Maryland Department of Psychology Undergraduate Research Fair, College Park, MD.

Botdorf, M., Geng, F., & Riggins, T. (2019, July). *Graph theoretical analysis of age-related differences in the episodic memory network in children.* Poster presented at the Organization for Human Brain Mapping Conference, Rome, Italy.

Ewell, A. & Riggins, T. (2019, May). *Relations between brain structure and internalizing symptoms in typically developing young children.* Poster presented at the 31st annual meeting of the American Psychological Society. Washington, DC.

Amin, S., Cox, L., **Fine, C.,** Weinberg, B., **Duncan, R.,** & Riggins, T. (2019, May). *Relations between autobiographical memory and hippocampal subregion volumes in early childhood.* Poster presented at the 31st annual American Psychological Society Convention, Washington, D.C.

Weinberg, B. E., Riggins, T., **Stern, J. A.,** & Cassidy, J. (May, 2019). *Relations between hippocampus subregion volumes and emotion regulation in young children.* Poster presented at the 31st annual American Psychological Society Convention, Washington, D.C.

Riggins, T. (2019, March). Moderator for Conversation Roundtable: *Memory assessments across development: Current practices and aspirations for the future.* Biennial meeting of the Society for Research in Child Development. Baltimore, MD.

Lopez, E., & Riggins, T. (2019, March). *Associations between sleep, memory, and hippocampal volume in 4- to 8-year-olds.* Poster presented at the Biennial meeting of the Society for Research in Child Development. Baltimore, MD.

Geng, F. & Riggins, T. (2019, March). *Longitudinal investigation of hippocampal functional connectivity at rest and episodic memory in early childhood*. Poster presented at the Biennial meeting of the Society for Research in Child Development. Baltimore, MD.

Allard, T., **Canada, K.,** Riggins, T. (2019, March). *Association between item-location binding and hippocampal subregion volumes in four to eight-year-old children.* Poster presented at the Biennial meeting of the Society for Research in Childhood Development, Baltimore, MD.

Botdorf, M., Blankenship, S., Dougherty, L., & Riggins, T. (2019, March). *The impacts of parenting and maternal depression on children's episodic memory ability: A longitudinal investigation.* Poster presented at the Biennial meeting of the Society for Research in Child Development. Baltimore, MD.

Botdorf, M., Geng, F., & Riggins, T. (2019, March). *Age-related changes in the brain's memory network: Specialization of the hippocampus revealed by graph theoretical analysis.* Poster presented at the Biennial meeting of the Society for Research in Child Development. Baltimore, MD.

Riggins, T. & Spencer, R. (2019, March). *To nap or not: Relations between napping, brain development, and memory in preschool children.* Paper presented at the Biennial meeting of the Society for Research in Child Development. Baltimore, MD. [Co-Chair of symposium: Sleep, Memory and the Brain During Development]

Stern, J. A., Gross, J. T., Brett, B. E., Riggins, T., Fitter, M., Milheim, E., & Cassidy, J. (2019, March). Adult attachment style predicts parents' empathy for their children: Evidence from preschool through middle childhood. In S. Woodhouse (Chair), *Adult attachment style: Implications for parenting behavior and child outcomes.* Paper presented at the Society for Research in Child Development Biennial Meeting, Baltimore, MD.

Tse, A., Canada, K. L., & Riggins, T. (2019, May). *Examining Gender Correlates of Pattern Separation Ability in Adults and Children.* Poster presented at the 2nd World Congress on Undergraduate Research *(World CUR 2019)*, Oldenburg, Germany.

Amin, S. & Riggins, T. (2018, November). *Relations Between Autobiographical Memory, Social Factors, and Hippocampal Subregion Volumes*. Poster to be presented at the Annual Biomedical Research Conference for Minority Students (ABRCMS), Indianapolis, IN. Declined.

Chad-Friedman, E., Riggins, T., Botdorf, M., & Dougherty, L.R. (2018, November). *Early Life Stress Predicts Reduced Brain Volume and Poorer Cognitive Functioning in School Age Children.* Poster to be presented at the 52nd annual convention of the Association for Behavioral and Cognitive Therapies, Washington, DC.

Canada, K., Geng, F., Hancock, G.R., Riggins, T. (2018, August). *Longitudinal development of hippocampal subfields during early to mid-childhood*. Poster presented at the Annual Meeting of Flux: The Society for Developmental Cognitive Neuroscience, Berlin, Germany.

Botdorf, M., Geng, F., & Riggins, T. (August, 2018) *A graph theoretical analysis of the episodic memory network during early childhood*. Poster presented at the Flux Congress, Berlin, Germany.

Chad-Friedman, E., Riggins, T., & Dougherty, L.R. (2018, May). *Reduced cortical thickness mediates prospective associations between early life stress and externalizing symptoms in school-age children.* Poster presented at the 30th annual convention of the Association for Psychological Science, San Francisco, CA.

Hansen, J., Ramazon, N., Zohery, V., & Riggins, T. (2018, April*). Associations between Hippocampal Subregions and Episodic Memory in Early Childhood*. Poster presented at the University of Maryland Undergraduate Research Day, College Park, MD

Fine, C., Amin, S., Cox, L., & Riggins , T. (2018, April) *Relations between autobiographical memory, social factors, and hippocampal subregion volumes*. Poster presented at University of Maryland Undergraduate Research Day, College Park, MD.

Geng, F., Redcay, E., & Riggins, T. (2018, June). *Using the Inscapes movie paradigm to examine relations between memory and hippocampal functional connectivity at rest during early childhood*. Paper presented at Annual Meeting of the Organization for Human Brain Mapping, Singapore.

Riggins, T., **Canada, K., Ngo, C.,** Newcombe, N. S., & Geng, F. (2018, April). *It's all in the details: Relations between childrens' pattern separation abilities and hippocampal subfield volumes*. Paper presented at The International Conference Learning and Memory, Huntington Beach, CA.

Canada, K. & Riggins, T. *Exploring the impact of age and experience on pattern separation.* (2018, April). Paper presented at The International Conference Learning and Memory, Huntington Beach, CA.

Botdorf, M. & Riggins, T. (2018, April). *Relations between working memory and cortical thinning in anterior cingulate cortex and dorsolateral prefrontal cortex in early childhood*. Poster presented at the International Conference on Learning and Memory, Huntington Beach, CA.

Canada, K., Geng, F., Riggins, T. (2017, September). *Relations between pattern separation ability and hippocampal subfield volume in childhood*. Poster presented at the Annual Meeting of Flux: The Society for Developmental Cognitive Neuroscience, Portland, OR.

Cox, L., **Adedipe, O.,** & Riggins, T. (2017, September). *Relations between autobiographical memory and hippocampal subregion volume in early childhood.* Poster presented at the annual meeting of Flux: The Society for Developmental Cognitive Neuroscience, Portland, OR.

Botdorf, M., Blankenship, S., Dougherty, L., & Riggins, T. (2017, September). *Positive, but not negative, parenting behavior in early childhood predicts both hippocampal volume and episodic memory ability in middle childhood*. Poster to be presented at the Flux Congress, Portland, OR.

Botdorf, M. & Riggins, T. (2017, September). *Relations between working memory and cortical thinning in anterior cingulate cortex and dorsolateral prefrontal cortex in early childhood*. Poster presented at the Flux Congress, Portland, OR.

Geng, F., & Riggins, T. (2017, April). *Developmental differences in hippocampal subfield volumes and relations with episodic memory in early childhood.* Paper presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

Geng, F., Redcay, E., & Riggins, T. (2017, April). *Hippocampal functional connectivity during rest in early childhood: the interplay of age and memory.* Paper presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

Botdorf, M., Stern, J.A., Cassidy, J., Riggins, T. (2017, April). *Associations between attachment security and hippocampal and amygdala volumes in early childhood*. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

Dean, S., Geng, F., & Riggins, T. (April, 2017). *Relations between source memory performance and hippocampal subfield volume in early childhood*. Poster presented at the biennial meeting of the Society for Research on Child Development, Austin, TX.

Campanella, C., **Canada, K.,** Clark, M. D., Mulligan, E. M., Geng, F., Spencer, R. M. C., & Riggins, T. (April, 2017). *Preliminary support for maturational links between memory, sleep and hippocampal development in early to middle childhood*. Poster presented at the biennial meeting of the Society for Research on Child Development, Austin, TX.

Blankenship, S.L., Riggins, T., Dougherty, L.R. (2016, November). *Hippocampal resting-state connectivity in children: Longitudinal and concurrent associations with parenting and cortisol reactivity.* Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.

Blankenship, S.L., Riggins, T., & Dougherty, L.R. (2016, September). *Longitudinal associations between early and concurrent parenting and child cortisol reactivity on hippocampal volume during childhood*. Poster presented at the Annual Meeting of Flux: The Society for Developmental Cognitive Neuroscience, St. Louis, MO.

Geng, F., Mulligan, E., & Riggins, T. (2016, September). *Developmental differences in hippocampal contribution to episodic memory in 4- to 8-year-old children.* Poster presented at the Annual Meeting of Flux: The Society for Developmental Cognitive Neuroscience, St Louis, MO.

Canada, K., Geng, F., & Riggins, T. (2016, September). *Electrophysiological correlates of intentional source memory retrieval in early childhood*. Poster presented at the Annual Meeting of Flux: The Society for Developmental Cognitive Neuroscience, St Louis, MO.

Riggins, T., **Zehra, A.,** Clark, M., & Mulligan, E. (2016, September). *Relations between source memory and hippocampal volume in early childhood*. Poster presented at the Annual Meeting of Flux: The Society for Developmental Cognitive Neuroscience, St Louis, MO.

Zehra, A., Swaminathan, S., Vazquez, D., & Riggins, T. (2016). *Associations between hippocampal subregions and episodic memory in early childhood.* Poster presented at University of Maryland Undergraduate Research Day, College Park, MD.