# Sarah Karalunas

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Syracuse University

Cobb-Jones Endowed Professor & Chair

Department of Psychology

College of Arts and Sciences

sbarth02@syr.edu

## Education

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| 2011 | **Ph.D.** **Child Clinical Psychology**, Specialization in Cognitive & Affective Neuroscience, Pennsylvania State UniversityPre-doctoral Internship: The Children’s Hospital of Philadelphia, Neuropsychology TrackLeadership Education in Neurodevelopmental and Related Disabilities (LEND) Program Fellow |

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| 2008 | **M.S.** **Clinical Psychology**, Pennsylvania State University |

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| 2000 - 2005 | **B.S.** **Neuroscience**, History, *Summa cum laude*, Hamilton CollegePhi Beta Kappa, Departmental honors |

## Graduate/Post-Graduate Training

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| 2011 - 2014 | Postdoctoral Associateship: Oregon Health & Science University, Center for ADHD Research |

## Administrative Assignments

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| 2025 - Present | **Department Chair**, Syracuse University, College of Arts and Sciences, Department of Psychology (July 1, 2025 - Present) |

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|  2023 - 2025 | **Director of Graduate Studies**, Purdue University, Psychological Sciences, West Lafayette, IN |

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|  2017 - 2020 | **Psychology Director**, Oregon Health & Science University, Child & Adolescent Psychiatry ADHD Clinic, Portland, OR |

**Academic Positions**

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| 2025 - Present | **Professor**, Syracuse University, College of Arts and Sciences, Department of Psychology, Syracuse, NY (July 1, 2025 - Present) |

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|  2022 - 2025 | **Associate Professor of Psychological Sciences**, Purdue University, West Lafayette, IN |

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|  2020 - 2022 | **Assistant Professor of Psychological Sciences**, Purdue University, West Lafayette, IN |

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|  2020 | **Associate Professor**, Oregon Health & Science University, Departments of Psychiatry & Behavioral Neuroscience, Portland, OR\*rank awarded after Purdue position was accepted |

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| 2014 - 2020 | **Assistant Professor**, Oregon Health & Science University, Departments of Psychiatry & Behavioral Neuroscience, Portland, OR |

**Professional Positions**

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| 2014 - 2020 | **Clinical Practicum Supervisor**, OHSU ADHD Research ProgramThis is a year-round, 15 hour/week practicum training placement for advanced clinical psychology doctoral students. Dr. Karalunas provided group supervision for 3-6 students per year who were conducting diagnostic assessments with children, adolescents, and adults. She also served as an on-call supervisor to help students manage crisis situations (e.g., suicidality, mandatory child abuse reporting) |

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| 2014 - 2020 | **Clinical Practicum Supervisor**, OHSU Child & Adolescent Psychiatry ClinicThis is a year-round, 10 hour/week practicum training placement for advanced clinical psychology doctoral students. It includes didactic teaching, guided readings, and supervision of applied assessment skills. Dr. Karalunas supervised 1-2 doctorate-level psychology students per year |

## Licensures and Certifications

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|  2023 - 2025 | Licensed Clinical Psychologist, State of Indiana, 2004395A |

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|  2014 - Present | Licensed Clinical Psychologist, State of Oregon, 2414 |

**Professional Memberships**

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| 2021 - Present | Society for Psychophysiological Research |

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| 2013 - Present | International Society for Research in Child & Adolescent Psychopathology |

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| 2011 - Present | Association for Psychological Science |

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|  2009 - 2018 | American Psychological Association |

## Awards and Honors

### Nominated

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| 2024 | Favorite Faculty Award, Purdue University |

### Received

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| 2024 | INSIGHTS Faculty Fellow, Purdue UniversityOne of 16 faculty from across the University selected for leadership development |

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| 2023 | ACORN “Seed for Success” Award, Purdue UniversityAwarded to faculty with large, externally-funded programs of research |

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| 2023 | Early Career Achievement Award, Purdue University |

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| 2019 | Erskine Fellowship, University of CanterburyInternational research and teaching fellowship |

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|  2013 -2017 | NIH Loan Repayment Program Award Recipient, National Institutes of Health |

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| 2015 | NIH-funded ERP Boot CampCompetitive training program |

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| 2013 | Sagvolden Eunethydis Junior Scholar Travel Scholarship, European Network of Hyperkinetic Disorders (Eunethydis) |

**Peer-Reviewed Publications**

#### \* denotes corresponding author(s); § denotes authors contributed equally to this work; UG denotes mentored undergraduate student; G denotes mentored graduate student; PD denotes mentored postdoctoral researcher

### Journal Article

Sangoi, J., Kozlowski, M., Feeny, K., **Karalunas, S.**, Riopelle, C., Peraza, J., Smith, J., Pintos Lobo, R., Gonzalez, R., Laird, A., Musser, E. (in press). Differences in resting-state functional connectivity of temperament-based profiles among youth with ADHD in the ABCD Study. *Clinical Psychological Science*.

Kozlowski, M. \*PD, Mortonp, H.PD, Tipsord, J., Nousen, L., Nigg, J. T., **Karalunas, S.** \* Reproducible structure with measurement invariance for the Parent-Report Early Adolescent Temperament Questionnaire: Findings from three independent samples. *Psychological Assessment, 37*(5), 214-226.

<https://doi.org/10.1037/pas0001368>

**Karalunas, S.**, Dude, J., Figuracion, M.G, Lane, S. P. (2024). Momentary Dynamics Implicate Emotional Features in the ADHD Phenotype. *Research on Child and Adolescent Psychopathology, 52*(9), 1343-1356.

[10.1007/s10802-024-01206-9](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1007/s10802-024-01206-9)

Nigg, J. T. \*, Bruton, A., Kozlowski, M., Johnstone, J., **Karalunas, S.** (2024). Systematic Review and Meta-Analysis: Do White Noise or Pink Noise Help With Task Performance in Youth With Attention-Deficit/Hyperactivity Disorder or With Elevated Attention Problems? *Journal of the American Academy of Child & Adolescent Psychiatry, 63*(8), 778-788.

[10.1016/j.jaac.2023.12.014](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.jaac.2023.12.014)

Figuracion, M. T. \*G, Kozlowski, M. B.PD, Macknyk, K. S.UG, Heise, M. B.G, Pieper, S. M.G, Alperin, B. R., Morton, H. E.PD, Nigg, J. T., **Karalunas, S.** \* (2024). The Relationship Between Emotion Dysregulation and Error Monitoring in Adolescents with ADHD. *Research on Child and Adolescent Psychopathology, 52*(4), 605-620.

[10.1007/s10802-023-01127-z](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1007/s10802-023-01127-z)

Privitera, C. M. \*, Noah, S., Carney, T., Klein, S. A., Lenartowicz, A., Hinshaw, S. P., McCracken, J. T., Nigg, J. T., **Karalunas, S.**, Reid, R. C., Oliva, M. T., Betts, S. S., Simpson, G. V. (2024). Pupillary dilations in a Target/Distractor visual task paradigm and attention deficit hyperactivity disorder (ADHD). *Neuroscience Letters, 818*.

[10.1016/j.neulet.2023.137556](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.neulet.2023.137556)

Dash, G. F. \*, Carter, E., **Karalunas, S.**, Hudson, K. A., Fair, D., Feldstein Ewing, S. W. (2023). Twin study of caffeine use, ADHD, and disrupted sleep in ABCD youth. *Health Psychology, 42*(12), 889-893.

[10.1037/hea0001252](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1037/hea0001252)

Miller, M. \*, Arnett, A. B., Shephard, E., Charman, T., Gustafsson, H. C., Joseph, H. M., **Karalunas, S.**, Nigg, J. T., Polanczyk, G. V., Sullivan, E. L., Jones, E. J. (2023). Delineating early developmental pathways to ADHD: Setting an international research agenda. *JCPP Advances, 3*(2). https://doi.org/10.1002/jcv2.12144

[10.1002/jcv2.12144](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1002/jcv2.12144)

Epstein, J. N. \*, **Karalunas, S.**, Tamm, L., Dudley, J. A., Lynch, J. D., Altaye, M., Simon, J. O., Maloney, T. C., Atluri, G. (2023). Examining reaction time variability on the stop-signal task in the ABCD study. *Journal of the International Neuropsychological Society, 29*(5), 492-502.

[10.1017/s1355617722000431](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1017/s1355617722000431)

Mooney, M. A. \*, Neighbor, C., **Karalunas, S.**, Dieckmann, N. F., Nikolas, M., Nousen, E., Tipsord, J., Song, X., Nigg, J. T. (2023). Prediction of Attention-Deficit/Hyperactivity Disorder Diagnosis Using Brief, Low-Cost Clinical Measures: A Competitive Model Evaluation. *Clinical Psychological Science, 11*(3), 458-475.

[10.1177/21677026221120236](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1177/21677026221120236)

Dash, G. F. \*, **Karalunas, S.**, Kenyon, E. A., Carter, E. K., Mooney, M. A., Nigg, J. T., Feldstein Ewing, S. W. (2023). Gene-by-Environment Interaction Effects of Social Adversity on Externalizing Behavior in ABCD Youth. *Behavior Genetics, 53*(3), 219-231.

[10.1007/s10519-023-10136-z](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1007/s10519-023-10136-z)

**Karalunas, S.** \*, Antovich, D.PD, Miller, N., Nigg, J. T. (2023). Prospective prediction of developing internalizing disorders in ADHD. *Journal of Child Psychology and Psychiatry, 64*(5), 768-778.

[10.1111/jcpp.13731](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1111/jcpp.13731)

Dudley, J. A. \*, Maloney, T. C., Simon, J. O., Atluri, G., **Karalunas, S.**, Altaye, M., Epstein, J. N., Tamm, L. (2023). ABCD\_Harmonizer: An Open-source Tool for Mapping and Controlling for Scanner Induced Variance in the Adolescent Brain Cognitive Development Study. *Neuroinformatics, 21*(2), 323-337.

[10.1007/s12021-023-09624-8](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1007/s12021-023-09624-8)

Nigg, J. T. \*, **Karalunas, S.** \*, Mooney, M. A. \*, Wilmot, B., Nikolas, M. A., Martel, M. M., Tipsord, J., Nousen, E. K., Schmitt, C., Ryabinin, P., Musser, E. D., Nagel, B. J., Fair, D. A. \* (2023). The Oregon ADHD-1000: A new longitudinal data resource enriched for clinical cases and multiple levels of analysis. *Developmental Cognitive Neuroscience, 60*.

[10.1016/j.dcn.2023.101222](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.dcn.2023.101222)

Jones, S. A. \*, Nagel, B. J., Nigg, J. T., **Karalunas, S.** \* (2022). Attention‐deficit/hyperactivity disorder and white matter microstructure: The importance of dimensional analyses and sex differences. *Journal of Child Psychology & Psychiatry - Advances, 2*(4).

[10.1002/jcv2.12109](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1002/jcv2.12109)

Kozlowski, M. B. \*, Antovich, D., **Karalunas, S.**, Nigg, J. T. (2022). Temperament in middle childhood questionnaire: New data on factor structure and applicability in a child clinical sample. *Psychological Assessment, 34*(12), 1081-1092.

[10.1037/pas0001180](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1037/pas0001180)

Naim, R. \*, Shaughnessy, S., Smith, A., **Karalunas, S.**, Kircanski, K., Brotman, M. A. \* (2022). Real‐time assessment of positive and negative affective fluctuations and mood lability in a transdiagnostic sample of youth. *Depression and Anxiety, 39*(12), 870-880.

[10.1002/da.23293](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1002/da.23293)

Martel, M. M. \*, Elkins, A. R., Eng, A. G., Goh, P. K., Bansal, P. S., Smith-Thomas, T. E., Thaxton, M. H., Ryabinin, P., Mooney, M. A., Gustafsson, H. C., **Karalunas, S.** \*, Nigg, J. T. \* (2022). Longitudinal Temperament Pathways to ADHD Between Childhood and Adolescence. *Research on Child and Adolescent Psychopathology, 50*(8), 1055-1066.

[10.1007/s10802-022-00902-8](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1007/s10802-022-00902-8)

Feldstein Ewing, S. W. \*, **Karalunas, S.** \*, Kenyon, E. A., Yang, M., Hudson, K. A., Filbey, F. M. \* (2022). Intersection between social inequality and emotion regulation on emerging adult cannabis use. *Drug and Alcohol Dependence Reports, 3*, 100050.

[10.1016/j.dadr.2022.100050](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.dadr.2022.100050)

Ostlund, B. \*, Donoghue, T., Anaya, B., Gunther, K. E., **Karalunas, S.**, Voytek, B., Pérez-Edgar, K. E. (2022). Spectral parameterization for studying neurodevelopment: How and why. *Developmental Cognitive Neuroscience, 54*, 101073.

[10.1016/j.dcn.2022.101073](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.dcn.2022.101073)

**Karalunas, S.** \*, Ostlund, B. D.PD, Alperin, B. R., Figuracion, M.G, Gustafsson, H. C., Deming, E. M.UG, Foti, D., Antovich, D., Dude, J., Nigg, J., Sullivan, E. (2022). Electroencephalogram aperiodic power spectral slope can be reliably measured and predicts ADHD risk in early development. *Developmental Psychobiology, 64*(3).

[10.1002/dev.22228](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1002/dev.22228)

**Karalunas, S.** \*, Antovich, D.PD, Goh, P. K., Martel, M. M., Tipsord, J., Nousen, E. K., Nigg, J. T. (2021). Longitudinal network model of the co-development of temperament, executive functioning, and psychopathology symptoms in youth with and without ADHD. *Development and Psychopathology, 33*(5), 1803-1820.

[10.1017/s0954579421000900](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1017/s0954579421000900)

Alperin, B. \*G, Christoff, K., Mills, C., **Karalunas, S.** (2021). More than off task: Increased freely moving thought in ADHD. *Consciousness & Cognition, 93*, 1-13.

[10.1016/j.concog.2021.103156](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.concog.2021.103156)

Martel, M. M. \*, Goh, P. K., Lee, C. A., **Karalunas, S.**, Nigg, J. T. (2021). Longitudinal attention-deficit/hyperactivity disorder symptom networks in childhood and adolescence: Key symptoms, stability, and predictive validity. *Journal of Abnormal Psychology, 130*(5), 562-574.

[10.1037/abn0000661](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1037/abn0000661)

Ostlund, B. D. \*PD, Alperin, B. R.G, Drew, T., **Karalunas, S.** \* (2021). Behavioral and cognitive correlates of the aperiodic (1/f-like) exponent of the EEG power spectrum in adolescents with and without ADHD. *Developmental Cognitive Neuroscience, 48*, 100931.

[10.1016/j.dcn.2021.100931](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.dcn.2021.100931)

Nigg, J. T. \*, Sibley, M. H., Thapar, A., **Karalunas, S.** (2020). Development of ADHD: Etiology, Heterogeneity, and Early Life Course. *Annual Review of Developmental Psychology, 2*(1), 559-583.

[10.1146/annurev-devpsych-060320-093413](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1146/annurev-devpsych-060320-093413)

**Karalunas, S.** \*, Bierman, K. L., Huang-Pollock, C. L. (2020). Test–Retest Reliability and Measurement Invariance of Executive Function Tasks in Young Children With and Without ADHD. *Journal of Attention Disorders, 24*(13), 1891-1904.

[10.1177/1087054715627488](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1177/1087054715627488)

Goh, P. K. \*G, Lee, C. A., Martel, M. M., **Karalunas, S.** \*, Nigg, J. T. (2020). Subgroups of Childhood ADHD Based on Temperament Traits and Cognition: Concurrent and Predictive Validity. *Journal of Abnormal Child Psychology, 48*(10), 1251-1264.

[10.1007/s10802-020-00668-x](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1007/s10802-020-00668-x)

Gustafsson, H. C. \*, Sullivan, E. L., Battison, E. A.J., Holton, K. F., Graham, A. M., **Karalunas, S.**, Fair, D. A., Loftis, J. M., Nigg, J. T. (2020). Evaluation of maternal inflammation as a marker of future offspring ADHD symptoms: A prospective investigation. *Brain, Behavior, and Immunity, 89*, 350-356.

[10.1016/j.bbi.2020.07.019](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.bbi.2020.07.019)

Nigg, J. T. \*, **Karalunas, S.**, Feczko, E., Fair, D. A. (2020). Toward a Revised Nosology for Attention-Deficit/Hyperactivity Disorder Heterogeneity. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 5*(8), 726-737.

[10.1016/j.bpsc.2020.02.005](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.bpsc.2020.02.005)

**Karalunas, S.** \*, Nigg, J. T. (2020). Heterogeneity and Subtyping in Attention-Deficit/Hyperactivity Disorder—Considerations for Emerging Research Using Person-Centered Computational Approaches. *Biological Psychiatry, 88*(1), 103-110.

[10.1016/j.biopsych.2019.11.002](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.biopsych.2019.11.002)

**Karalunas, S.** \*, Weigard, A.PD, Alperin, B.G (2020). Emotion–Cognition Interactions in Attention-Deficit/Hyperactivity Disorder: Increased Early Attention Capture and Weakened Attentional Control in Emotional Contexts. *Biological Psychiatry Cognitive Neuroscience and Neuroimaging, 5*(5), 520-529.

[10.1016/j.bpsc.2019.12.021](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.bpsc.2019.12.021)

Nigg, J. T. \*, **Karalunas, S.**, Gustafsson, H. C., Bhatt, P., Ryabinin, P., Mooney, M. A., Faraone, S. V., Fair, D. A., Wilmot, B. (2020). Evaluating chronic emotional dysregulation and irritability in relation to ADHD and depression genetic risk in children with ADHD. *Journal of Child Psychology and Psychiatry, 61*(2), 205-214.

[10.1111/jcpp.13132](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1111/jcpp.13132)

Alperin, B. R. \*G, Smith, C. J.UG, Gustafsson, H. C., Figuracion, M. T.UG, **Karalunas, S.** \* (2019). The relationship between alpha asymmetry and ADHD depends on negative affect level and parenting practices. *Journal of Psychiatric Research, 116*, 138-146.

[10.1016/j.jpsychires.2019.06.016](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.jpsychires.2019.06.016)

**Karalunas, S.** \*, Gustafsson, H. C., Fair, D., Musser, E. D., Nigg, J. T. (2019). Do we need an irritable subtype of ADHD? Replication and extension of a promising temperament profile approach to ADHD subtyping. *Psychological Assessment, 31*(2), 236-247.

[10.1037/pas0000664](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1037/pas0000664)

**Karalunas, S.** \*, Hawkey, E.UG, Gustafsson, H., Miller, M., Langhorst, M., Cordova, M., Fair, D., Nigg, J. T. (2018). Overlapping and Distinct Cognitive Impairments in Attention-Deficit/Hyperactivity and Autism Spectrum Disorder without Intellectual Disability. *Journal of Abnormal Child Psychology, 46*(8), 1705-1716.

[10.1007/s10802-017-0394-2](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1007/s10802-017-0394-2)

Anandakumar, J. \*, Mills, K. L., Earl, E. A., Irwin, L., Miranda-Dominguez, O., Demeter, D. V., Walton-Weston, A., **Karalunas, S.**, Nigg, J., Fair, D. A. (2018). Individual differences in functional brain connectivity predict temporal discounting preference in the transition to adolescence. *Developmental Cognitive Neuroscience, 34*, 101-113. https://doi.org/10.1016/j.dcn.2018.07.003

[10.1016/j.dcn.2018.07.003](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.dcn.2018.07.003)

Bauer, B. W. \*G, Gustafsson, H. C., Nigg, J., **Karalunas, S.** \* (2018). Working Memory Mediates Increased Negative Affect and Suicidal Ideation in Childhood Attention-Deficit/Hyperactivity Disorder. *Journal of Psychopathology and Behavioral Assessment, 40*(2), 180-193.

[10.1007/s10862-017-9635-5](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1007/s10862-017-9635-5)

Mills, B. D. \*, Miranda-Dominguez, O., Mills, K. L., Earl, E., Cordova, M., Painter, J., **Karalunas, S.**, Nigg, J. T., Fair, D. A. (2018). ADHD and attentional control: Impaired segregation of task positive and task negative brain networks. *Network Neuroscience, 2*(2), 200-217.

[10.1162/netn\_a\_00034](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1162/netn_a_00034)

Feczko, E. \*, Balba, N. M., Miranda-Dominguez, O., Cordova, M., **Karalunas, S.**, Irwin, L., Demeter, D. V., Hill, A. P., Langhorst, B. H., Grieser Painter, J., Van Santen, J., Fombonne, E. J., Nigg, J. T., Fair, D. A. (2018). Subtyping cognitive profiles in Autism Spectrum Disorder using a Functional Random Forest algorithm. *Neuroimage, 172*, 674-688.

[10.1016/j.neuroimage.2017.12.044](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.neuroimage.2017.12.044)

Nigg, J. T. \*, Gustafsson, H. C., **Karalunas, S.**, Ryabinin, P., McWeeney, S. K., Faraone, S. V., Mooney, M. A., Fair, D. A., Wilmot, B. (2018). Working Memory and Vigilance as Multivariate Endophenotypes Related to Common Genetic Risk for Attention-Deficit/Hyperactivity Disorder. *Journal of the American Academy of Child &amp; Adolescent Psychiatry, 57*(3), 175-182.

[10.1016/j.jaac.2017.12.013](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.jaac.2017.12.013)

**Karalunas, S.** \*, Gustafsson, H. C., Dieckmann, N. F., Tipsord, J., Mitchell, S. H., Nigg, J. T. (2017). Heterogeneity in development of aspects of working memory predicts longitudinal attention deficit hyperactivity disorder symptom change. *Journal of Abnormal Psychology, 126*(6), 774-792.

[10.1037/abn0000292](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1037/abn0000292)

Alperin, B. R. \*G, Gustafsson, H., Smith, C.UG, **Karalunas, S.** \* (2017). The relationship between early and late event-related potentials and temperament in adolescents with and without ADHD. *PLOS ONE, 12*(7), e0180627.

[10.1371/journal.pone.0180627](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1371/journal.pone.0180627)

Lagasse, L. L. \*, Conradt, E. \*, **Karalunas, S.**, Dansereau, L. M., Butner, J. E., Shankaran, S., Bada, H., Bauer, C. R., Whitaker, T. M., Lester, B. M. (2016). Transactional relations between caregiving stress, executive functioning, and problem behavior from early childhood to early adolescence. *Development and Psychopathology, 28*(3), 743-756.

[10.1017/s0954579416000286](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1017/s0954579416000286)

Musser, E. D. \*, **Karalunas, S.** \*, Dieckmann, N., Peris, T. S., Nigg, J. T. (2016). Attention-deficit/hyperactivity disorder developmental trajectories related to parental expressed emotion. *Journal of Abnormal Psychology, 125*(2), 182-195.

[10.1037/abn0000097](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1037/abn0000097)

Mitchell, S. H. \*, Wilson, V. B., **Karalunas, S.** (2015). Comparing hyperbolic, delay-amount sensitivity and present-bias models of delay discounting. *Behavioural Processes, 114*, 52-62.

[10.1016/j.beproc.2015.03.006](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.beproc.2015.03.006)

DuPuis, D. \*, Ram, N., Willner, C. J., **Karalunas, S.**, Segalowitz, S. J., Gatzke‐Kopp, L. M. (2015). Implications of ongoing neural development for the measurement of the error‐related negativity in childhood. *Developmental Science, 18*(3), 452-468. https://doi.org/10.1111/desc.12229

[10.1111/desc.12229](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1111/desc.12229)

Ray, S. \*, Miller, M., **Karalunas, S.**, Robertson, C., Grayson, D. S., Cary, R. P., Hawkey, E., Painter, J. G., Kriz, D., Fombonne, E., Nigg, J. T., Fair, D. A. (2014). Structural and functional connectivity of the human brain in autism spectrum disorders and attention-deficit/hyperactivity disorder: A rich club-organization study. *Human Brain Mapping, 35*(12), 6032-6048.

[10.1002/hbm.22603](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1002/hbm.22603)

**Karalunas, S.** \*, Fair, D., Musser, E. D., Aykes, K.UG, Iyer, S. P., Nigg, J. T. (2014). Subtyping Attention-Deficit/Hyperactivity Disorder Using Temperament Dimensions. *JAMA Psychiatry, 71*(9), 1015.

[10.1001/jamapsychiatry.2014.763](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1001/jamapsychiatry.2014.763)

**Karalunas, S.** \*, Geurts, H. M., Konrad, K., Bender, S., Nigg, J. T. (2014). Annual Research Review: Reaction time variability in ADHD and autism spectrum disorders: measurement and mechanisms of a proposed trans‐diagnostic phenotype. *Journal of Child Psychology and Psychiatry, 55*(6), 685-710.

[10.1111/jcpp.12217](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1111/jcpp.12217)

**Karalunas, S.** \*, Huang-Pollock, C. L. (2013). Integrating Impairments in Reaction Time and Executive Function Using a Diffusion Model Framework. *Journal of Abnormal Child Psychology, 41*(5), 837-850.

[10.1007/s10802-013-9715-2](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1007/s10802-013-9715-2)

**Karalunas, S.** \*, Huang‐Pollock, C. L., Nigg, J. T. (2013). Is reaction time variability in ADHD mainly at low frequencies? *Journal of Child Psychology and Psychiatry, 54*(5), 536-544.

[10.1111/jcpp.12028](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1111/jcpp.12028)

**Karalunas, S.** \*, Huang-Pollock, C. L., Nigg, J. T. (2012). Decomposing attention-deficit/hyperactivity disorder (ADHD)-related effects in response speed and variability. *Neuropsychology, 26*(6), 684-694.

[10.1037/a0029936](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1037/a0029936)

Huang-Pollock, C. L. \*, **Karalunas, S.**, Tam, H., Moore, A. N. (2012). Evaluating vigilance deficits in ADHD: A meta-analysis of CPT performance. *Journal of Abnormal Psychology, 121*(2), 360-371.

[10.1037/a0027205](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1037/a0027205)

**Karalunas, S.** \*, Huang-Pollock, C. L. (2011). Examining Relationships Between Executive Functioning and Delay Aversion in Attention Deficit Hyperactivity Disorder. *Journal of Clinical Child & Adolescent Psychology, 40*(6), 837-847.

[10.1080/15374416.2011.614578](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1080/15374416.2011.614578)

Huang-Pollock, C. L. \*, Maddox, W. T., **Karalunas, S.** (2011). Development of implicit and explicit category learning. *Journal of Experimental Child Psychology, 109*(3), 321-335.

[10.1016/j.jecp.2011.02.002](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.jecp.2011.02.002)

Huang-Pollock, C. L. \*, **Karalunas, S.** (2010). Working memory demands impair skill acquisition in children with ADHD. *Journal of Abnormal Psychology, 119*(1), 174-185. h

[10.1037/a0017862](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1037/a0017862)

Gescheider, G. A. \*, Güçlü, B., Sexton, J. L., **Karalunas, S.**, Fontana, A. (2005). Spatial summation in the tactile sensory system: Probability summation and neural integration. *Somatosensory & Motor Research, 22*(4), 255-268.

[10.1080/08990220500420236](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1080/08990220500420236)

### Book Chapter

**Karalunas, S.** \*, Nigg, J. T., Figuracion, M. T.G (2024). The intersection of cognition and emotion in developmental psychopathology. In M. A. Bell (Ed.), *Child Development at the Intersection of Emotion and Cognition* (2nd ed., pp. 259-286). American Psychological Association. <https://www.apa.org/pubs/books/child-development-intersection-emotion-cognition-second-edition> doi:[10.1037/0000406-013](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1037/0000406-013)

## Peer-Reviewed Publications In Progress

### Revise and Resubmit

Karalunas, S., Atluri, G., Tamm, L., Dudley, J., Maloney, T., Pieper, S., Jones, S., Simon, J., Duong, P., Nagel, B., Nigg, J. T., Epstein, J., Interrogating group structure of cognitive and neural developmental variation in childhood.

Morton, H. E., Kozlowski, M. B., Dieckmann, N. F., Maron, L., Nigg, J. T., Karalunas, S., Neurocognitive and Temperament Predictors of Changes in Child and Adolescent Suicidality for Youth With and Without ADHD.

Kozlowski, M., Morton, H., Figuracion, M., Tipsord, J., Nousen, L., Nigg, J., Karalunas, S., Reproducible Temperament Profiles in Adolescents with ADHD Prospectively Predict Clinical Outcomes.

**Other Publications**

#### \* denotes corresponding author(s); § denotes authors contributed equally to this work; UG denotes mentored undergraduate student; G denotes mentored graduate student; PD denotes mentored postdoctoral researcher

### Book Review

**Karalunas, S.** (2022). Dimensions of Psychological Problems: Replacing Diagnostic Categories With a More Science-Based and Less Stigmatizing Alternative. *Journal of the American Academy of Child & Adolescent Psychiatry* (8th ed., vol. 61, pp. 1063-1065).

[10.1016/j.jaac.2022.05.001](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.jaac.2022.05.001)

**Karalunas, S.** (2018). Stijn Vanheule Psychiatric Diagnosis Revisited: From DSM to Clinical Case Formulation. *Journal of the American Academy of Child & Adolescent Psychiatry* (3rd ed., vol. 57, pp. 212-213).

### Commentary

**Karalunas, S.** (2022). Electroencephalographic biomarkers in psychiatry— how do we make good on promises? *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* (8th ed., vol. 7, pp. 752-753).

[10.1016/j.bpsc.2022.05.009](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.bpsc.2022.05.009)

**Karalunas, S.** (2022). Can we accurately screen for ADHD? Moving to a dimensional, multi-step assessment process. *Journal of the American Academy of Child & Adolescent Psychopathology* (8th ed., vol. 61, pp. 965-967).

[10.1016/j.jaac.2022.02.011](file:///Users/sbarth02/Downloads/%20https%3A/doi.org/10.1016/j.jaac.2022.02.011)

## Contracts, Fellowships, Grants, and Sponsored Research

**Completed**

"Person-centered diagnostics and prediction for child dysregulatory psychopathology using novel phenotypes," U01 Sponsored by National Institutes of Health.

MPI: Nagel/**Karalunas**

Awarded Project Period: April 1, 2024 - March 31, 2028
Amount: $10,000,000.00

"Polygenic and environmental contributions to ADHD trajectory and outcome from childhood through adolescence," R01 Sponsored by National Institutes of Health.

MPI: Mooney/Nigg; **role: co-I**

Awarded Project Period: February 1, 2023 - November 30, 2027
Amount: $2,000,000.00

"The neurophysiological basis of interindividual variability (IIV) in ADHD," R01 Sponsored by National Institutes of Health.

PI: Lenartowicz (PD/PI); **role: co-I**

Awarded Project Period: April 1, 2023 - March 31, 2026
Amount: $525,000.00

"Developmental origins and early detection of ADHD and dysregulatory psychopathology," R01 Sponsored by National Institute of Mental Health.

MPI: Sullivan/Nigg; **role: co-I (site PI)**
Awarded Project Period: January 1, 2021 - December 31, 2025
Amount: $3,750,000.00

"Worker-AI Teaming to Enable ADHD Workforce Participation in the Construction Industry of the Future," NSF Future of Work Award Sponsored by National Science Foundation.

MPI: Hasanzadeh/**Karalunas**/Duffy
Awarded Project Period: October 1, 2021 - September 30, 2025
Amount: $800,000.00

"Biobehavioral validation of the ADHD emotion dysregulation phenotype," R01 Sponsored by National Institute of Mental Health.

PI: **Karalunas**
Awarded Project Period: April 1, 2020 - March 31, 2025
Amount: $3,750,000.00

"Parsing Neurobiological Bases of Heterogeneity in ADHD," R01Sponsored by National Institute of Mental Health.

MPI: Tamm/Epstein; **role: co-I**
Awarded Project Period: April 1, 2020 - March 31, 2025
Amount: $1,800,000.00

"ADHD heterogeneity, mechanisms, and risk profile," R36 Sponsored by National Institute of Mental Health.

PI: Nigg; **role: co-I**
Awarded Project Period: September 12, 1999 - December 31, 2023
Amount: $3,750,000.00

"Effort-related decision-making in ADHD," R21 Sponsored by National Institute of Mental Health.

PI: Mitchell; **role: co-I**Awarded Project Period: July 15, 2019 - April 30, 2021
Amount: $220,254.00

"Investigation of opioid exposure and neurodevelopment (iOPEN)," R34 Sponsored by National Institute of Mental Health.

PI: Graham/Fair; **role: co-I**
Awarded Project Period: September 30, 2019 - March 15, 2021
Amount: $450,000.00

"Neurophysiological Attention Test (NAT) For Objective Assessment of ADHD," R43 Sponsored by National Institute of Mental Health.

PI: Simpson; **role: co-I (site PI)**
Awarded Project Period: September 1, 2017 - August 30, 2020
Amount: $1,500,000.00

"Neurophysiological mechanisms of cognitive and emotional control in ADHD," K23 Sponsored by National Institute of Mental Health.

PI: **Karalunas**
Awarded Project Period: August 1, 2016 - July 31, 2020
Amount: $758,387.00

"Improving ADHD cognitive endophenotypes using a diffusion model approach," F32 Sponsored by National Institute of Mental Health.

PI: **Karalunas**
Awarded Project Period: September 1, 2012 - August 31, 2014
Amount: $101,404.00

"Consistently inconsistent: understanding intra-individual variability in ADHD," F31 Sponsored by National Institute of Mental Health.

PI: **Karalunas**
Awarded Project Period: January 1, 2010 - June 30, 2010
Amount: $17,346.00

***Other Grants***

**Completed**

“White noise as a non-pharmocological intervention for improving attention in children with ADHD” Clifford B. Kinley Trust Award.

 PI: **Karalunas**

 Awarded Project Period: May 1 2024 – August 31, 2025

 Amount: $25,000

"Longitudinal relationships among inflammation, infant neural development, and behavioral outcomes," Research Seed Funding Sponsored by OHSU Department of Psychiatry.

PI: **Karalunas**
Awarded Project Period: May 1, 2018 - April 30, 2020
Amount: $5,000.00

## Presentations

Chang, W., Becerra, J., Yu, L., **Karalunas, S.**, Hasanzadeh, S., Esmaeili, B., Construction Research Congress 2024 Conference Proceedings, "Pioneering research on neurodiverse ADHD workforce in the future construction industry." (2024).

Rutter, T. M., Molloy, K., Heise, M., Nigg, J. T., **Karalunas, S.**, Sullivan, E., Gustafsson, H., FIT'NG/FLUX Annual Meeting, "Identifying Prenatal Psychological Influences on Infant Neural Signatures," Santa Rosa, CA. (2023).

**Karalunas, S.**, Child MIND Institute, "ADHD as an Emotional Disorder: Explaining Variation in Onset, Presentation, and Clinical Risk," New York, NY. (2023). **Invited**

**Karalunas, S.**, University of Albany, Psychology Colloquium, "ADHD as an Emotional Disorder: Explaining Variation in Onset, Presentation, and Clinical Risk." (2023). **Invited**

**Karalunas, S.**, annual meeting of The EUropean NETwork for HYperkinetic DISorders (EUNETHYDIS), "Temperament perspectives on neurodevelopmental risk," Montpellier, France. (2023). **Invited**

**Karalunas, S.**, Young Investigators Professional Development Series, "Mechanisms of ADHD risk & resilience from infancy to adolescence," University of Rhode Island. (2022). **Invited**

**Karalunas, S.**, National Institutes of Health Severe Mood Dysregulation Unit, "Emotion Dysregulation in ADHD: Implications of within- and between-person heterogeneity." (2021). **Invited**

**Karalunas, S.**, World Congress on ADHD, "Heterogeneity of executive function revealed by a diffusion model approach across ADHD and ASD." (2021). **Invited**

**Karalunas, S.**, University of Canterbury Erskine Fellowship, "Totally unique, just like everyone else: Understanding individual differences in ADHD," Christ Church, New Zealand. (2020). **Invited**

**Karalunas, S.**, Psychology Department, "Emotional and Cognitive Heterogeneity in ADHD," University of North Carolina at Greensboro. (2019). **Invited**

**Karalunas, S.**, Schwartz, A., Alperin, B., Shirley, B., Oregon/SW Washington Society for Neuroscience chapter meeting, "Characterizing mechanisms of change in ADHD symptoms and impairment," Portland, OR. (2018). **Invited**

**Karalunas, S.**, Reed College, "Totally unique, just like everyone else: Cognitive, emotional, and neurophysiological heterogeneity in ADHD." (2017). **Invited**

**Karalunas, S.**, NIH RDoC Webinar series, "Using developmental heterogeneity to predict clinical outcomes in ADHD." (2017). **Invited**

**Karalunas, S.**, National Alliance on Mental Illness, "ADHD in Children: Using individual differences to improve diagnosis and treatment," Vancouver, WA. (2014). **Invited**

**Karalunas, S.**, Pennsylvania State University, "Consistently inconsistent: reaction time variability in ADHD," State College, PA. (2013). **Invited**

Huang-Pollock, C., Scott, J., **Karalunas, S.**, National Association for the Education of Young Children, "HALP! A toolbox for improving hyperactivity, attention, and learning problems," State College, PA. (2008). **Invited**

**Karalunas, S.**, Huang-Pollock, C., Nittany Valley Charter School, "Evidence based diagnosis and treatment of learning disabilities in school-age children," State College, PA. (April 2008). **Invited**

Yaple, Z., Miller, G., Figuracion, M., **Karalunas, S.**, Society for Psychophysiological Research, "Investigating the triple network model in adolescents with ADHD using dynamic source localization," New Orleans, LA. (2023).

Lane, S. P., Dude, J. A., **Karalunas, S.**, Society for Ambulatory Assessment, "Reciprocal reinforcement of momentary inattention symptoms and negative emotionality in attention-deficit/hyperactivity disorder," Columbia, MO. (2022).

**Karalunas, S.**, Biennial meeting of the International Society for Research in Child & Adolescent Psychopathology, "Dynamic emotion-cognition interactions in ADHD: evidence from sequential sampling models and event-related potentials," Los Angeles, CA. (June 2019).

McLelland, M., Tipsord, J., **Karalunas, S.**, OHSU Research Week, "EEG correlates of callous-unemotional traits in ADHD," Portland, OR. (2018).

**Karalunas, S.**, Weigard, A., Alperin, B., Cognitive Science Association for Interdisciplinary Learning, "Emotional content disrupts cognitive control in ADHD," Hood River, OR. (2018).

Thomeson, E., Tipsord, J., **Karalunas, S.**, OHSU Research Week, "Low parental criticism predicts growth in child self-efficacy in ADHD," Portland, OR. (2018).

Figuracion, M., Tipsord, J., **Karalunas, S.**, OHSU Research Week, "Sex differences in rates of diagnosis and neurophysiological profiles in ADHD," Portland, OR. (2018).

Overton, A., Tipsord, J., **Karalunas, S.**, OHSU Research Week, "Sex differences in relationships between BMI & ADHD Symptoms," Portland, OR. (2018).

Martel, M. M., **Karalunas, S.**, Nigg, J. T., International Society for Research in Child and Adolescent Psychopathology, "Clinical utility of positive and negative valence and control systems in ADHD," Leuven, Belgium. (2013).

Nigg, J., Musser, E., Fair, D., **Karalunas, S.**, American Academy of Child and Adolescent Psychiatry, "ADHD, irritability, and temperament: cross validation of distinct subgroups," San Francisco, CA. (2012).

Nigg, J., Aykes, K., **Karalunas, S.**, Musser, E., Nagel, B., Fair, D., American Academy of Child and Adolescent Psychiatry, "Longitudinal change in ADHD and neural connectivity in childhood," San Francisco, CA. (2012).

**Karalunas, S.**, Huang-Pollock, C. L., International Neuropsychology Society (INS), "More than the Mean: Mechanisms Underlying Group Differences in Reaction Times in ADHD," Montreal, QC, Canada. (2012).

**Karalunas, S.**, Huang-Pollock, C., Nittany Valley Charter School, "Evidence based diagnosis and treatment of learning disabilities in school-age children," State College, PA. (2008).

Hilliard, M., **Karalunas, S.**, LeBuffe, P., Eichler, W., National Association for School Psychologists, "Increasing teacher satisfaction in early childhood using strength-based approaches in early childhood," Anaheim, CA. (March 2006).

Napolitano, S. C., Lane, S. P., Tipsord, J., Nousen, L., Nigg, J., **Karalunas, S.**, Missouri Psychological Association, "Elevated trait negative affect and time distortion in ADHD," Columbia, MI. (2023).

Winner of Graduate Student Paper Award

**Karalunas, S.**, Musser, E. D., Aykes, K., Fair, D. A., Nigg, J. T., 23rd Annual meeting of the European Network of Hyperkinetic Disorders (Eunethydis), "Neurobiologic and predictive validation of a temperament-based taxonomy in ADHD," Prague, Czech Republic. (2013).

Heise, M., Gustafsson, H., Millspaugh, L., Nigg, J., Sullivan, E., **Karalunas, S.**, Society for Research in Child Development annual meeting, "Early infant temperament is associated with ADHD family risk and EEG-measured neural development," Minneapolis, MN. (2025).

West, M., **Karalunas, S.**, Schwichtenberg, A. J., Society for Research in Child Developmen annual meeting, "Parent-reported sleep problems for children with Attention Deficit Hyperactivity Disorder and their typically developing peers," Minneapolis, MN. (2025).

Pieper, S., **Karalunas, S.**, Association for Psychological Science annual conference, "ADHD Cognitive Subgroups Prospectively Predict Clinical Outcomes over 6 Years," San Francisco, CA. (2024). **Accepted**

Heise, M., Gustafsson, H., Wood, E., Miller, G., Rutter, T., Figuracion, M., Nigg, J., Sullivan, E., **Karalunas, S.**, Midwestern Psychological Association annual conference, "Frontal asymmetry as a prospective predictor of infant negative affect across the first year of life," Chicago, IL. (2024). **Accepted**

Millspaugh, L., Heise, M., **Karalunas, S.**, Midwestern Psychological Association annual conference, "Infant temperament development across the 1st year of life," Chicago, IL. (2024). **Accepted**

Figuracion, M., Kozlowski, M., Macknyk, K., Heise, M., Pieper, S., Alperin, B., Morton, H., Nigg, J., **Karalunas, S.**, Society for Psychophysiological Research annual conference, "The relationship between emotion dysregulation and error monitoring in adolescents with ADHD," New Orleans, LA. (2024).

Winner of Best Poster Award

Sangoi, J., Kozlowski, M., Feeney, K., **Karalunas, S.**, Riopelle, C., Pintos Lobo, R., Peraza, J., Gonzalez, R., Laird, A., Musser, E., ABCD Insights & Innovations Meeting, "Differences in resting-state functional connectivity of temperament-based profiles among youth with ADHD in the ABCD Study," Bethesda, MD. (March 4, 2024 - March 5, 2024).

Kozlowski, M. B., Morton, H. E., Nigg, J. T., **Karalunas, S.**, American Professional Society for ADHD and Related Disorders, "Are there heterogeneous temperament traits in ADHD beyond middle childhood? An exploratory study with emerging adolescents," Orlando, FL. (2023).

Griffin, M. M., Figuracion, M., Macknyk, K., **Karalunas, S.**, Purdue Psychological Science Undergraduate Research Conference, "Differences in mental health concerns in adopted vs. non-adopted children," West Lafayette, IN. (2023).

Ramsey, S. M., Figuracion, M., **Karalunas, S.**, Purdue Psychological Science Undergraduate Research Conference, "Examining the Effect of Facial Processing on Peer Relationships in Children with ADHD," West Lafayette, IN. (2023).

Honorable mention, Best Poster Award

Morton, H., Kozlowski, M., Nigg, J. T., **Karalunas, S.**, American Professional Society for ADHD and Related Disorders, "Working memory mediates the relationships between childhood depression and adolescent suicidality for girls with ADHD," Orlando, FL. (2023).

Naim, R., Shaughnessy, S., Smith, A., **Karalunas, S.**, Kircanski, K., Brotman, M., American College of Neuropharmacology Annual Meeting, "Real-time assessment of positive and negative affective fluctuations and mood lability in a transdiagnostic sample of youth." (December 2022).

Sridhar, N., Hayes, M. D., Figuracion, M. T., Nigg, J. T., **Karalunas, S.**, Gustafsson, H. C., Sullivan, E. L., OHSU Research Week, "An Examination of the Relationship Between Maternal ACEs and Infant Frontal EEG Asymmetry," Portland, OR. (2022).

Figuracion, M., Alperin, B., **Karalunas, S.**, International Society for Research in Child & Adolescent Psychopathology, "Clarifying sex differences in ADHD-related alpha asymmetry patterns accounting for aperiodic EEG power spectrum features." (2022).

2022 conference cancelled due to COVID

Naim, R., Shaughnessy, S., Smith, A., **Karalunas, S.**, Kircanski, K., Brotman, M., Anxiety & Depression Association of America, "Real-time assessment of daily affective fluctuations in a transdiagnostic sample of youth," Denver, CO. (2022).

Smith, J. N., Raiker, J. S., Jusko, M. L., Coxe, S., Fosco, W., Parent, J., **Karalunas, S.**, Selah, K. B., Tipsord, J., Nousen, L., Nigg, J. T., Musser, E., Association for Behavioral and Cognitive Therapy (ABCT), "Transdiagnostic Mechanisms of Youth Externalizing Psychopathology: Preliminary Findings," New York, NY. (2022).

Figuracion, M., Alperin, B., **Karalunas, S.**, Society for Psychophysiological Research, "Clarifying sex differences in ADHD-related alpha asymmetry patterns accounting for aperiodic EEG power spectrum features." (September 2022).

**Karalunas, S.**, Dude, J., Shiro, L., Alperin, B., Figuracion, M., Society for Psychophysiological Research, "Variability in attention preparation explains working memory failures in ADHD." (September 2022).

van der Hoorn, K., Miller, N., **Karalunas, S.**, Peris, T., Nigg, J. T., Society for Research on Child Development, "A Computational Method for Scoring Parent Expressed Emotion in ADHD and Other Child Conditions," Virtual. (2021). **Accepted**

Gustafsson, H. C., Sullivan, E. L., Nikolas, M., Martel, M., Mooney, M. A., Vartanian, K., **Karalunas, S.**, Nigg, J. T., 54th annual meeting of the International Society for Developmental Psychobiology, "Prenatal maternal distress association with offspring ADHD symptoms is independent of pre- and post-natal confounds and child polygenic risk for ADHD," Chicago, IL. (2021). **Accepted**

Figuracion, M., Alpering, B., **Karalunas, S.**, Association for Psychological Science, "Alpha Asymmetry Effects in ADHD Depend on Sex and Level of Comorbid Negative Affect," Washington, DC. (2019).

Savoy, A., Jones, S., Nigg, J. T., Nagel, B., **Karalunas, S.**, Association for Psychological Science, "Frontal white matter microstructural differences predict cognitive and behavioral impulsivity in ADHD," San Francisco, CA. (2018).

Schwartz, A., Tipsord, J., Alperin, B., **Karalunas, S.**, Annual Biomedical Research Conference for Minority Students (ABRCMS), "Predicting ADHD Symptoms in Adolescents Using Error-Related Brain Potentials," Indianapolis, IN. (2018).

Schwartz, A., Tipsord, J., Alperin, B., **Karalunas, S.**, OHSU Research Week, "Predicting ADHD Symptoms in Adolescents Using Error-Related Brain Potentials," Portland, OR. (2018).

Alperin, B., Smith, C., Gustafsson, H., **Karalunas, S.**, International Society for Research in Child and Adolescent Psychopathology (ISRCAP), "Alpha asymmetry interacts with family environment to predict ADHD diagnosis," Amsterdam. (2017).

**Karalunas, S.**, Alperin, B., Smith, C., Cognitive Neuroscience Society, "Variability in attentional control explains working memory impairments in ADHD," San Francisco, CA. (2017).

Alperin, B., Smith, C., **Karalunas, S.**, Cognitive Neuroscience Society, "Emotional heterogeneity in ADHD: Bottom-up or Top- down processing of emotional stimuli?," New York, NY. (2016).

**Karalunas, S.**, Alperin, B., Cognitive Science Association for Interdisciplinary Learning, "Cognitive response style in ADHD corresponds to physiological and clinical heterogeneity," Hood River, OR. (2015).

Bauer, B., Nigg, J. T., **Karalunas, S.**, American Academy of Child & Adolescent Psychiatry, "Working Memory and Negative Affect Mediate Increased Suicidal Ideation in Childhood Attention-Deficit/Hyperactivity Disorder," San Antonio, TX. (2015).

Mattei, G., **Karalunas, S.**, Tam, H., Huang-Pollock, C. L., Society for Research in Child Development (SRCD), "Evaluating Stimulant Medication Effects in ADHD Populations: A Meta-Analysis of CPT Performance," Seattle, WA. (2013).

**Karalunas, S.**, Aykes, K., Iyer, S., Fair, D. A., Nigg, J. T., Human Brain Mapping (HBM), "Functional brain connectivity patterns differentiate novel temperament-based subgroups in ADHD," Seattle, WA. (2013).

**Karalunas, S.**, Iyer, S., Musser, E. D., Fair, D. A., Nigg, J. T., Society for Research in Child Development (SRCD), "Heterogeneity in ADHD: Subtyping by temperament using a novel person-centered analysis," Seattle, WA. (2013).

**Karalunas, S.**, Nigg, J. T., Carpenter, S., Cservenka, A., Alarcon, G., Fair, D., Nagel, B. J., International Society for Research in Child and Adolescent Psychopathology (ISRCAP), "Widespread white matter abnormalities in ADHD when accounting for motion," Leuven, Belgium. (2013).

Harmon, S., Nigg, J. T., **Karalunas, S.**, Association for Psychological Science, "Children with ADHD and Superior IQ Show Significant Impairment in Response Inhibition," Chicago, IL. (2012).

Galloway-Long, H., Fenesy, M., Musser, E. D., Nigg, J. T., **Karalunas, S.**, Association for Psychological Science, "Children's Reactions to Interparental Conflict Predict Depressive Symptoms in an ADHD Population," Chicago, IL. (2012).

Alarcon, G., Musser, E. D., Nigg, J. T., **Karalunas, S.**, Association for Psychological Science, "Relating working memory deficits in childhood attention deficit hyperactivity disorder (ADHD) to autonomic nervous system functioning," Chicago, IL. (2012).

**Karalunas, S.**, Nigg, J. T., Huang-Pollock, C. L., International Society for Research in Child and Adolescent Psychopathology, "Relationships among low-frequency reaction time variability, symptom domains, and functional impairment," Chicago, IL. (2011).

Huang-Pollock, C., **Karalunas, S.**, Moore, A., Tam, H., International Society for Research in Child and Adolescent Psychopathology, "Working memory subsystems and their contribution to working memory deficits in children with ADHD," Chicago, IL. (2011).

**Karalunas, S.**, Huang-Pollock, C., Eunethydis, "Consistently inconsistent: effects of reward on patterns of intra-individual variability," Amsterdam, Netherlands. (2010).

**Karalunas, S.**, Scott, J. R., Huang-Pollock, C. L., International Society for Research on Child and Adolescent Psychopathology, "A meta-analysis of sustained attention functions in children with ADHD," Seattle, WA. (2009).

Huang-Pollock, C. L., Maddox, W. T., Scott, J. R., **Karalunas, S.**, Society for Research in Child Development, "Development of Implicit Learning," Denver, CO. (2009).

**Karalunas, S.**, Gatzke-Kopp, L., Huang-Pollock, C., Society for Psychophysiological Research, "Understanding Intra-Individual Variability in Cardiac and ERP Measures," Berlin, Germany. (2009).

**Karalunas, S.**, Huang-Pollock, C., International Society for Research on Child and Adolescent Psychopathology, "Relationships between Delay Aversion, Working Memory, & Response Inhibition in ADHD," London, England. (2007).

Huang-Pollock, C., **Karalunas, S.**, Radzioch, A., International Society for Research in Child and Adolescent Psychopathology, "Working memory moderates skill acquisition in childhood ADHD," London, England. (2007).

Hilliard, M., **Karalunas, S.**, LeBuffe, P., New York Association for School Psychologists (NYASP), "Strength-based approaches to classroom management: Improving job satisfaction in early childhood," New York, NY. (2005).

**Karalunas, S.**, Devereux Early Childhood Initiative Research Conference, "The impact of poverty status on teacher and parent DECA ratings," Villanova, PA. (2005).

Shapiro, V., **Karalunas, S.**, Association for School Psychologists of Pennsylvania (ASSP), "Creating culturally competent clinicians: A data-based training activity," Harrisburg. (March 2005).

**Karalunas, S.**, Heise, M., Millspaugh, L., Sullivan, E., Gustafsson, H., Society for Research in Child Development annual meeting, "The Developmental Origins of Risk for ADHD: Novel Early Life Biomarkers and Moderators: aperiodic EEG markers of ADHD risk," Minneapolis, MN. (2025).

Brown, L. (co-chair), Figuracion, M. (co-chair), Foti, D., **Karalunas, S.**, Society for Psychophysiological Research annual meeting, "Enhancing inclusivity in EEG methodology: considerations for employing equitable research practices with Black and Latine participants," Prague. (October 2024). **Accepted**

**Karalunas, S.**, Dude, J., Shiro, L., Gustafsson, H. C., Morton, H., Nigg, J. T., Society for Research on Child Development, "Biobehavioral markers of working memory impairment and ADHD risk," Salt Lake City, UT. (2023).

**Karalunas, S. (Chair)**, bi-annual meeting of the International Society for Research in Child & Adolescent Psychopathology (ISRCAP), "Contributions of Momentary Assessment Approaches to Understanding Within- and Between-Person Variation in Emotion Dysregulation and ADHD," London, United Kingdom. (2023).

**Karalunas, S. (chair)**, Beauchaine, T., Morton, M., Nigg, J. T., 2023 annual meeting of the American Professional Association of ADHD and Related Disorders, "Multimodal Prediction of Mood Disorders and Suicide Risk in ADHD," Orlando, FL. (2023).

**Karalunas, S.**, Heise, M., Figuracion, M., Gustafsson, H., Rutter, T., Nigg, J. T., Sullivan, E., American Academy of Child & Adolescent Psychiatry (AACAP) Annual Meeting, "Temperament and neural predictors of neurodevelopmental disorder risk in infancy and early childhood," New York, NY. (2023).

Napolitano, S. C., Lane, S. P., Tipsord, J., Nousen, L., Nigg, J., **Karalunas, S.**, Society for Ambulatory Assessment, "Elevated trait negative affect and time distortion in ADHD. In Hepp and Wycoff (Chairs) Affect dynamics surrounding problem behaviors in daily life," Columbia, MI. (June 2022).

**Karalunas, S.**, Ostlund, B., Alperin, B., Foti, D., Gustafsson, H., Nigg, J. T., Sullivan, E., Big Ideas Symposium talk at the Annual Meeting of the Society for Psychophysiological Research (SPR), "Aperiodic EEG power spectrum predicts ADHD risk in infancy and adolescence." (2021). **Accepted**

**Karalunas, S.**, American Academy of Child & Adolescent Psychiatry, "Multi-Method Evidence for Impairing Effects of Emotional Arousal on Cognitive Control in ADHD," Chicago, IL. (2019).

**Karalunas, S.**, Alperin, B., Nigg, J. T., International Society for Research in Child and Adolescent Psychopathology (ISRCAP), "Novel approaches to characterizing mechanisms of change in developmental psychopathology," Amsterdam. (2017).

**Karalunas, S.**, Wilson, V. B., Mitchell, S. H., Nigg, J. T., International Society for Research in Child and Adolescent Psychopathology (ISRCAP), "Distinct roles for cognitive control and delay discounting as "biomarkers" in ADHD," Portland, OR. (2015).

**Karalunas, S.**, Musser, E. D., Ward, A., Nigg, J. T., International Society for Research in Child and Adolescent Psychopathology (ISRCAP), "Individual differences in cognitive response style in ADHD associated with unique patterns of physiological response and functional impairment," Portland, OR. (2015).

Nigg, J. T., Musser, E. D., **Karalunas, S.**, Fair, D., Nagel, B., American Academy of Child and Adolescent Psychiatry Annual Conference, "Symptoms of negative emotion in ADHD over time: Biomarkers and cognitive indicators." (2012).

**Karalunas, S.**, Spragge, S., 12th Annual Research Day, The Children's Hospital of Philadelphia, "Ecological validity of neuropsychological testing: relationships between language, executive function, and adaptive communication," Philadelphia, PA. (2011).

**Karalunas, S.**, Huang-Pollock, C., International Neuropsychology Society, "Intra-individual variability in ADHD," Acapulco, Mexico. (2010).

Gatzke-Kopp, L., Ram, N., **Karalunas, S.**, Fortunato, C., Jetha, M., Gates, K., Society for Psychophysiological Research, "The relationship of motivation and cognition in reinforcement processing," Germany. (2009).

Swan, R., Aller, S., **Karalunas, S.**, Indiana University REDCap Conference, "Everything Everywhere All at Once: How to Manage Tracking and Workflow in your REDCap Project," IN. (2023).

Aller, S., **Karalunas, S.**, Swan, R., Indiana University REDCap Conference, "Research Assistant Management," IN. (2023).

Morton, H., Kozlowski, M., **Karalunas, S.**, Nigg, J. T., International Society for Autism Research, "The Overlap and Distinction of Childhood Temperament Profiles for Autistic and ADHD Youth," Stockholm, Sweden. (2023).

Figuracion, M., Kozlowski, M., Macknyk, K., Heise, M., Pieper, S., Alperin, B., Morton, H., Nigg, J., **Karalunas, S.**, International Society for Research in Child and Adolescent Psychopathology (ISRCAP), "The relationship between emotion dysregulation and error monitoring in adolescents with ADHD," London, England. (2023).

Swan, R., Aller, S., **Karalunas, S.**, Indiana University REDCap Conference, "Twilio SMS: The Good, the Bad, and the Ugly," IN. (2023).

Martel, M., Elkins, A., Eng, A., Goh, P., Bansal, P., **Karalunas, S.**, Nigg, J., European Conference of Personality, "Longitudinal Temperament Pathways to ADHD Between Childhood and Adolescence," Madrid, Spain. (2022). **Accepted**

Sullivan, E. L., Nigg, J. T., **Karalunas, S.**, Gustafsson, H. C., 2022 FLUX Congress, "The maternal tryptophan-kynurenine pathway mediates the association between maternal adiposity and child risk for psychopathology," Paris, France. (2022).

**Karalunas, S.**, Lane, S., Dude, J., Nigg, J. T., International Society for Research in Child & Adolescent Psychopathology, "Using longitudinal approaches at multiple timescales to clarify the dynamic role of negative affect in ADHD." (2022).

2022 conference cancelled due to COVID

## Continuing Education Presentations

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| 2023 |  *Lecturer*, BUROS Center for Testing ADHD Assessment series, virtualProvided continuing medical education lecture to ~60 practicing psychologists, social workers, and psychiatrists on evidence-based assessment for ADHD. There was no student or postdoctoral involvement in the preparation or delivery of the lecture |

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| 2019 | PSY 399 Honors Neuroscience Seminar, Oregon State University (Fall 2019)Advanced undergraduate honors’ seminar focused on neuroscience methodology with enrollment of ~10/year. Dr. Karalunas lectured one time per year on “EEG Methods for Applied Research,” including interactive and hands-on demonstrations of equipment and methods. |

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| 2019 |  *Lecturer*, Oregon Brain Institute Clinical Neuroscience for Primary Care Providers, Portland, ORProvided continuing medical education lecture, entitled Differentiating Adolescent Brain Development and ADHD to 50 primary care providers. There was no student or postdoctoral involvement in the preparation or delivery of the lecture |

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| 2019 |  *Lecturer*, Oregon Health & Science University Pediatric Mental Health Conference, Portland, ORProvided continuing medical education lecture entitled, Evidence-based diagnosis and treatment for ADHD to over 100 pediatric medical providers. There was no student or postdoctoral involvement in the preparation or delivery of the lecture |

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| 2019 |  *Lecturer*, Oregon’s state-wide Extension for Community Healthcare Outcomes (ECHO) ProgramProvided an annual lecture entitled, Rating-based care via a web-based platform to ~30 rural healthcare workers. Facilitated case discussion of hypothetical patient. Facilitated discussion and provided input on specific patients for whom providers had questions. There was no student or postdoctoral involvement in the preparation or delivery of the lecture |

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| 2018 |  *Lecturer*, Oregon’s state-wide Extension for Community Healthcare Outcomes (ECHO) ProgramProvided an annual lecture entitled, Rating-based care via a web-based platform to ~30 rural healthcare workers. Facilitated case discussion of hypothetical patient. Facilitated discussion and provided input on specific patients for whom providers had questions. There was no student or postdoctoral involvement in the preparation or delivery of the lecture |

### Course at Taught

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| 2025 | PSY 39200 Neurodevelopmental Differences, *Lead Instructor*, Purdue University (Spring 2025) |

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| 2023 | PSY 66800 Cognitive Assessment, *Lead Instructor*, Purdue University (Spring 2023) |

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| 2022 | PSY 66800 Cognitive Assessment, *Lead Instructor*, Purdue University (Fall 2022) |

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| 2022 | PSY 66800 Cognitive Assessment, *Lead Instructor*, Purdue University (Spring 2022) |

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| 2020 | PSY 399 Honors Neuroscience Seminar, *Guest Lecturer*, Oregon State University (Fall 2020)Advanced undergraduate honors’ seminar focused on neuroscience methodology with enrollment of ~10/year. Dr. Karalunas lectured one time per year on “EEG Methods for Applied Research,” including interactive and hands-on demonstrations of equipment and methods |

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| 2020 | PSY 66800 Cognitive Assessment, *Lead Instructor*, Purdue University (Fall 2020) |

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| 2020 | PSY 641 Abnormal Psychology, *Lead Instructor*, University of Canterbury (Spring 2020) |

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| 2020 | PSY 337 Abnormal Psychology, *Lead Instructor*, University of Canterbury (Spring 2020) |

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| 2019 | No CRS# Student Research Seminar, *Lead Instructor*, Oregon Health & Science University (Fall 2019) |

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| 2019 | UME 772 Cognitive Intersession, *Lead Instructor*, Oregon Health & Science University (Summer 2019) |

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| 2019 | No CRS# Student Research Seminar, *Lead Instructor*, Oregon Health & Science University (Spring 2019) |

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| 2018 | UME 772 Cognitive Intersession, *Lead Instructor*, Oregon Health & Science University (Fall 2018) |

### Guest Lecture

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| 2015 - 2020 | No CRS# Child Psychiatry Residency & Fellowship Program at OHSU Annual Lecturer, Oregon State UniversityThis is a two-year long didactic training series for Psychiatry Residents and Child Psychiatry Fellows that is required per the accrediting body. Dr. Karalunas taught on topics related to her expertise 2-3 times per year. Topics of lectures included: “Neuropsychological Assessment,” “ADHD: Development, Differential Diagnosis, and Treatment,” “Learning Disability: History and Diagnosis,” and “Diagnostic Conceptualization and Approaches”. |

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| 2020 | CPP 614 Cognitive Assessment, Oregon Health & Science University (Spring 2020)Graduate course focused on Cognitive Assessment course with enrollment of ~4/year. Dr. Karalunas lectured one time per year on “Evidence Assessment of ADHD”. |

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| 2019 | CPP 610 Abnormal Psychology, Oregon Health & Science University (Fall 2019)Graduate course focused on DSM diagnosis with enrollment of ~4/year. Dr. Karalunas lectured one time per year on “ADHD, Autism, and Disruptive Behavior Disorders”. |

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| 2019 | PSY 366 Neuropsychology, Reed College (Fall 2019)Enrollment varies ~15/year. Dr. Karalunas lectured one time per year on “Neuropsychological Assessment”. |

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| 2019 | BEHN 635 Comparative Cognitive Neuroscience, Oregon Health & Science University (Spring 2019)Graduate course focused on broad topics in cognitive neuroscience with enrollment of ~4-6 /year. Responsible for assessment and grading to ensure mastery of lecture content. Lecture taught one time per year on “Cognition-Emotion Interactions.” Dr. Karalunas was also responsible for assessment and grading to ensure mastery of lecture content. |

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| 2018 | BEHN 635 Comparative Cognitive Neuroscience, Oregon Health & Science University (Spring 2018)Graduate course focused on broad topics in cognitive neuroscience with enrollment of ~4-6 /year. Responsible for assessment and grading to ensure mastery of lecture content. Lecture taught one time per year on “Cognition-Emotion Interactions.” Dr. Karalunas was also responsible for assessment and grading to ensure mastery of lecture content. |

## Directed Student Learning

### Major professor

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| 2022 - present | Madelyn Trost, Purdue University, Ph.D. |

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| 2022 - present | Sarah Pieper, Purdue University, Ph.D. |

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| 2021 - present | McKenzie Figuracion, Purdue University, Ph.D.\*\*selected as a BRIDGE Scholar by Purdue’s Office of Graduate Diversity Initiatives \*\*Diversity F31 under review |

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| 2014 - 2019 | Brittany Alperin, "How the mind wanders in ADHD and why it matters,"Oregon Health & Science University, Ph.D."How the mind wanders in ADHD and why it matters", Ph.D., 2019 Published in Alperin, Christoff, Mills, & Karalunas (2021), Consciousness & Cognition.\*\*funded by TL1 training grant (institutional F31) |
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### Undergraduate Honors Thesis

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| 2025 | Trina Tagamolila, "Eye-tracking metrics of attentional and emotional control in ADHD," Purdue University, BS, 2025\*\*Received Purdue’s OUR Scholars Research Scholarship |

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| 2024 | Sarah Ramsey, "ADHD Diagnostic Discrepancies & Face Processing in Multiracial Children," Purdue University, BS, 2024\*\*Honorable Mention, Best Poster Award Psych Sciences Undergrad Research Conference |

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| 2024 | Lillian Millspaugh, "Mechanisms contributing to emergence of anxiety in ADHD," Purdue University, BS, 2024\*\*Honorable Mention, John O. Hadley Outstanding Senior Award |

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| 2023 | Katelyn Macknyk, "Interactions of polygenic risk and social inequality in risk for psychosis," Purdue University, BS, 2023\*\*Best Poster Award Psych Sciences Undergrad Research Conference\*\*Received Purdue’s OUR Scholars Research Scholarship\*\*College of Agriculture Outstanding Senior Award |

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| 2020 | McKenzie Figuracion, "Sex Differences in Prevalence and Psychophysiological Profiles of ADHD," Portland State University, BS, 2020\*\*selected for the NIH-funded BUILD EXITO program to enhance diversity in biomedical sciences |

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| 2019 | Amber Schwartz, "ADHD-related impairments in error processing predict symptom change," Portland State University, BS, 2019\*\*selected for the NIH-funded BUILD EXITO program to enhance diversity in biomedical sciences |

## Service

### University

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| 2023 - 2025 | University Representative, Indiana Playbook for Enhancing Indiana’s Mental & Behavioral Health Workforce |

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| 2023 | Judge, Undergraduate Research Conference, Purdue University |

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| 2020 | Faculty Representative, Liaison Committee on Medical Education (LCME) Accreditation Review & Survey Visit, Oregon Health & Science University |

### Department

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| 2021 - 2025 | Member, Psychological Sciences Advisory Committee, Purdue University |

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| 2023 - 2024 | Member, Psychological Sciences Department Head Search Committee, Purdue University |

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| 2022 - 2024 | Member, Psychological Sciences Diversity, Equity, & Inclusion Committee |

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| 2022 - 2023 | Member, Behavioral Neuroscience Search Committee, Purdue University |

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| 2021 - 2022 | Chair, Clinical Psychology Area Search Committee, Purdue University |

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| 2020 - 2021 | Member, Clinical Area Assessment Training Committee, Purdue University |

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| 2020 - 2021 | Member, Clinical Area Diversity, Equity, & Inclusion Committee |

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| 2020 - 2021 | Member, Cognitive Psychology Area Search Committee, Purdue University |

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| 2019 - 2020 | Member, Admissions Committee (Clinical Psychology/Psychiatry), OHSU |

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| 2019 - 2020 | Member, Promotion & Tenure Committee (Psychiatry), OHSU |

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| 2019 - 2020 | Member, Psychiatry Research Advisory Committee, OHSU |

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| 2018 | Chair, Psychiatry Research Retreat Planning Committee, OHSU |

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| 2016 - 2018 | Member, Clinical Competency Committee (Child Psychiatry), OHSU |

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| 2023 - Present | Faculty Sponsor, NSF Advance Award to enhance institutional support for minoritized faculty in science, University at Albany |

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| 2023 - Present | Scientific Advisory Board Member, Purdue Center for Early LearningDirector: David Purpura |

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| 2022 - Present | Founding Member, ADHD Early Risk ConsortiumChair: Meghan Miller [UC Davis] |

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| 2022 - Present | Member, International Irritability ConsortiumChairs: Wan-Ling Tseng, PhD [Yale Child Study Center], Ellen Leibenluft, MD [NIH], and Melissa Brotman, PhD [NIH] |

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| 2019 - Present | Scientific Advisory Board Member, Oregon Health & Science University’s Center for Mental Health InnovationCo-directors: Joel Nigg, PhD, Bonnie Nagel, PhD |

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| 2023 - 2025 | Faculty mentor, Psychological Sciences Faculty Mentorship Program, Purdue University |

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| 2023 - 2024 | Chair, Psychological Sciences P&T Counseling Committee, Purdue University(faculty: Chiu) |

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| 2023 - 2024 | Member, Psychological Sciences P&T Counseling Committee, Purdue University(faculty: Kirby) |

## Professional Service

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| 2023 - Present | Grant Review Standing Member, National Institutes of Mental Health, Child Psychopathology and Developmental Disabilities Study Section (September 2023 - Present) |

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| 2022 - Present | Consulting Editor, Assessment |

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| 2022 - Present | Editorial Review Board Member, Research on Child & Adolescent Psychopathology |

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|  2021 | Ad hoc reviewer, National Institutes of Mental Health, Child Psychopathology and Developmental Disabilities Study Section (February 2021) |

**Invited Roles**

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| 2025 - 2026 | Program Chair, Society for Psychophysiological Research, 2026 Annual Conference |

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| 2024 - 2025 | Program Committee, Society for Psychophysiological Research, 2025 Annual Conference |

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| 2023 | Symposium Discussant, Temperament-based methods for characterizing heterogeneity in ethnically diverse ADHD populations, International Society for Research in Child & Adolescent Psychopathology |

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| 2022 | Symposium Discussant, Cognitive development and attention problems in youth: novel insights from longitudinal and computational modeling, International Society for Research in Child & Adolescent Psychopathology2022 conference canceled due to COVID |

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| 2021 | Chairperson, Overlap and differences of ADHD and autism– new findings of functional imaging and cognition studies, World Congress on ADHD (May 2021) |

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| 2019 | Symposium Discussant, Addressing controversies and new directions in ADHD treatment: Evidence for temperament-based sub-typing associated with differential treatment response and biological changes following broad-spectrum micronutrient treatment, International Society for Research in Child & Adolescent Psychopathology (June 2019) |

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| 2017 | Symposium Chair, Novel approaches to characterizing mechanisms of change in developmental psychopathology, International Society for Research in Child & Adolescent Psychopathology (June 2017) |

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| 2015 | Symposium Chair, A developmental perspective on biomarkers in psychopathology from infancy to adolescence, International Society for Research in Child & Adolescent Psychopathology (June 2015) |

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| 2015 | Symposium Chair, Cognitive Response Style in ADHD as a biomarker of physiological and clinical heterogeneity, International Society for Research in Child & Adolescent Psychopathology (June 2015) |

## Public Service

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| 2022 - 2025 | Brain Fair, Imagination Station, Lafayette, IN(funded via Purdue HHS Service Learning Grant, PI: Figuraciong) This annual public event held a local science center includes activities for children ages 5-17 to help them learn about neural communication, brain imaging methodologies, and brain development using both human and animal models |

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| 2024 | Volunteer, Mental Health Matters Booth, Indiana State Fair, Indianapolis, INCoordinated Purdue’s College of Health & Human Sciences participation in Mental Health Matters day at the Indiana State Fair, including developing resource materials and educational games to promote positive mental health and reduce stigma. Event sponsored by Lt. Gov. Suzanne Crouch and the Indiana Mental Health Roundtable |

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| 2021 | Volunteer, Families Tackling Tough Times Together, Purdue UniversityAs a team member of the Families Tackling Tough Times Together program, Dr. Karalunas worked with a team to develop weekly “Wellness Wednesday” materials that translated current findings in psychological science into practical activities for families to build their resilience. These materials were distributed via Facebook and the website to participating families and agencies. The Families Tackling Tough Times Together program received the HHS Faculty Engagement Award for 2021 |

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| 2021 | Volunteer, Tippecanoe County Fair, Lafayette, INDr. Karalunas hosted an educational booth at the Tippecanoe County Fair. The booth included interactive activities to teach children and families about how the brain works such as a “build your own neuron” activity in which children learned what each part of a neuron does while sculpting their own pipe cleaner neurons |

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| 2017 - 2020 | Volunteer, YES! (Youth Engaged in Science!) Community Program, Portland, ORYES! brings groups of children, adolescents, and young adults who would otherwise be unlikely to be exposed to neuroscience research to a full-day immersive experience. Dr. Karalunas hosted groups of 10-30 individuals several times each year. Dr. Karalunas and her students provided didactic information about how neural communication happens, how it is recorded with EEG, and an opportunity for students to participate in recording EEG of their peers and/or having their own EEG recorded |

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| 2016 | Volunteer, Oregon Museum of Science & Industry Brain Fair, Portland, ORThis public event is hosted by the local science museum. Dr. Karalunas’s students spent several months preparing to explain the lab’s research in lay terms and to answer common questions about ADHD and other neurodevelopmental disorders. They ran interactive booths where children and adults could “test” their own cognitive abilities, created a didactic figure explaining EEG signal, and offered a demonstration of EEG recording |

## Media Appearances, Mentions, Interviews, and Reviews Received\

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| September 29, 2024 | Expert Comment/Quote: "Do Food Dyes Make ADHD worse?," Cybele Mayes-Osterman, USA Today<https://www.usatoday.com/story/news/nation/2024/09/29/food-dyes-adhd-impact-study-state-bans/75059257007/> |

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| March 16, 2024 | Expert Comment/Quote: "Wonder why your brain operates differently with ADHD?," Eduardo Cuevas, USA Today<https://www.usatoday.com/story/news/health/2024/03/16/adhd-affects-brain-connections-study/72968370007/> |

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| October 10, 2023 | Expert Comment/Quote: "Why some people don’t feel the buzz of caffeine," Hannah Seo, Washington Post<https://www.washingtonpost.com/wellness/2023/10/10/caffeine-sensitivity-coffee-heart-genes> |

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| April 1, 2023 | Expert Comment/Quote: "Emotional dysregulation is part of ADHD," Kirsten Weir, APA Monitor, 55 (3)<https://www.apa.org/monitor/2024/04/adhd-managing-emotion-dysregulation> |

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| February 10, 2023 | Expert Comment/Quote: "Children with autism and ADHD often have additional mental health conditions," Maaisha Osman, Spectrum News<https://www.spectrumnews.org/news/children-with-autism-and-adhd-often-have-additional-mental-health-conditions/> |
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| October 6, 2021 | Mention: “Purdue researcher offers insights into common ADHD myths,” Rebecca Hoffa, Purdue News: <https://www.purdue.edu/hhs/news/2021/10/purdue-researcher-offers-insights-into-common-adhd-myths/>  |
| 2018 | Story Covered: "ADHD & Autism Share Common Cognitive Problems," Spectrum News<https://spectrumnews.org/news/attention-deficit-disorder-%20autism-share-cognitive-%20problems/> |

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| 2017 | Expert Comment/Quote: "Parenting SOS segment," KGW 11am television news *(TV)* |