

AMANDA CREMONE-CAIRA, Ph.D.

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Department of Psychology

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Merrimack College

RESEARCH INTERESTS

Developmental and cognitive neuroscience; executive function; sleep; socioemotional outcomes; learning and memory; neurodevelopmental disorders; health disparities

ACADEMIC POSITIONS

2023 – **Merrimack College**

- Assistant Professor in the Department of Psychology
 - Instructing *Psychological Inquiry and Mythology (Writing Intensive)*
 - Leading an undergraduate-run research program exploring neural correlates of cognitive and socioemotional outcomes throughout development

2020 – 2023 **Assumption University**

- Assistant Professor of Neuroscience in the Department of Psychology
 - Instructed *Research Methods, Perception, Introduction to Brain & Behavior, and Cognitive Neuroscience*
 - Led an undergraduate-run research program exploring neural correlates of cognitive and socioemotional outcomes throughout development
 - Advised undergraduates (approximately 15 students) in course registration, degree completion, and professional development
 - Developed a new *Major in Neuroscience (with a Psychology Path)* and two new courses based in human neuroscience (*Cognitive Neuroscience* and *Experimental Techniques in Human Neuroscience*)

2019 – 2020 **College of the Holy Cross**

- Visiting Assistant Professor in the Department of Psychology
 - Instructed *Introduction to Psychology, Cognition & Memory, and Research Methods*
 - Advised Psychology majors (approximately 25 students) in course registration, degree completion, and professional development

- Led a research program aimed at characterizing relations between sociocultural factors and cognitive/behavioral outcomes associated with developmental psychopathology in collaboration with Worcester Public Schools

2017 – 2020 **Boston Children's Hospital and Harvard Medical School**

- Post-Doctoral Research Fellow in the Laboratories of Cognitive Neuroscience (Advisors: Drs. Susan Faja and Charles A. Nelson)
 - Conducted independent and collaborative research evaluating:
 - Developmental trajectories of executive functioning and socioemotional outcomes in children with and without developmental disorders
 - Reliability of objective biomeasures of cognition and social communication in children with autism as part of the *Autism Biomarkers Consortium for Clinical Trials (ABC-CT)*
 - Advised research assistants and undergraduate volunteers on independent projects and professional development

EDUCATION

2013 – 2017 **University of Massachusetts Amherst**

Doctor of Philosophy, Neuroscience and Behavior Program
(October 2017)

- Dissertation: *The Role of Sleep on Inhibitory Control in Young Children with Attention-Deficit/Hyperactivity Disorder (ADHD)*

2008 – 2012 **Merrimack College**

Bachelor of Sciences, Concentrations: Psychology and Biology (May 2012)

- Magna Cum Laude

PEER REVIEWED PUBLICATIONS (*undergraduate student)

- **Cremone-Caira, A.⁺**, Braverman, Y.⁺, MacNaughton, G., Nikolaeva, J.I. & Faja, S. (2023). Reduced Visual Evoked Potential Amplitude in Autistic Children with Co-Occurring Features of Attention-Deficit/Hyperactivity Disorder. *Journal of Autism and Developmental Disorders*.

⁺Authors contributed equally to this work

- St. Laurent, C.W., Lund Rasmussen, C., Holmes, J.F. **Cremone-Caira., A.**, Desrochers, P.C., Kurdziel, L.B.F., & Spencer, R.M.C. (2023). Associations of movement behavior compositions with cognitive and social-emotional health in early childhood: A cross-sectional study. *Journal of Activity, Sedentary, and Sleep Behaviors*, 2(7).

- **Cremone-Caira, A.**, Trier, K., Sanchez, V., Kohn, B., Gilbert, R., & Faja, S. (2021). Inhibition in Developmental Disorders: A Comparison of Inhibition Profiles between Children with Autism Spectrum Disorder, Attention-Deficit/Hyperactivity Disorder, and Comorbid Symptom Presentation. *Autism*, 25(1), 227-243.
- **Cremone-Caira, A.**, Vaidyanathan, A., Hyatt, D., Gilbert, R., & Faja, S. (2020). Test-Retest Reliability of the N2 Event-Related Potential in School-Aged Children with Autism Spectrum Disorder. *Clinical Neurophysiology*, 131(1), 406-413.
- **Cremone-Caira, A.**, Root, H.*, Harvey, E.A., McDermott, J.M., & Spencer, R.M.C. (2020). Effects of Sleep Extension on Inhibitory Control in Young Children with ADHD: A Pilot Study. *Journal of Attention Disorders*, 24(4), 601-610.
- **Cremone-Caira, A.**, Buirkle, J., Gilbert, R., Nayudu, N., & Faja, S. (2019). Relations between Caregiver-Report of Sleep and Executive Function Problems in Children with Autism Spectrum Disorder and Comorbid Symptoms of Attention-Deficit/Hyperactivity Disorder. *Research in Developmental Disabilities*, 94, 103464.
 - Featured in the Centre for Autism, Middletown, UK Research Bulletin
- **Cremone, A.**, Lugo-Candelas, C.I., Harvey, E.A., McDermott, J.M., & Spencer, R.M.C. (2018). Positive Emotional Attention Biases in Young Children with Symptoms of ADHD. *Child Neuropsychology*, 24(8), 1137-1145.
- **Cremone, A.**, Lugo-Candelas, C.I., Harvey, E.A., McDermott, J.M., & Spencer, R.M.C. (2017). REM Sleep Theta Activity Enhances Inhibitory Control in Typically Developing Children but not Children with ADHD Symptoms. *Experimental Brain Research*, 235(5), 1491-1500.
- **Cremone, A.**, McDermott, J.M., & Spencer, R.M.C. (2017). Naps Enhance Executive Attention in Preschool-Aged Children. *Journal of Pediatric Psychology*, 42(8), 837-845.
- **Cremone, A.**, de Jong, D.M., Kurdziel, L.B.F., Desrochers, P., Sayer, A., LeBourgeois, M., Spencer, R.M.C., & McDermott, J.M. (2017). Sleep Tight, Act Right: Negative Affect, Sleep and Behavior Problems During Early Childhood. *Child Development*, 89(2), e42-e59.
- **Cremone, A.**, Kurdziel, L.B.F., Fraticelli, A., McDermott, J.M., & Spencer, R.M.C. (2016). Napping Reduces Emotional Attention Bias During Early Childhood. *Developmental Science*, 20(4), e12411.
- de Jong, D.M., **Cremone, A.**, Kurdziel, L.B.F., Desrochers, P., LeBourgeois, M., Sayer, A., Ertel, K., & Spencer, R.M.C. (2016). Maternal Depressive Symptoms and Household Income in Relation to Sleep in Early Childhood. *Journal of Pediatric Psychology*, 41(9), 961-970.
- Spencer, R.M.C., Campanella, C., de Jong, D.M., Desrochers, P., Root, H.*, **Cremone, A.**, & Kurdziel, L.B.F. (2016). Sleep and Behavior of Preschool Children Under Typical and Nap-Promoted Conditions. *Sleep Health*, 2(1), 35-41.

OTHER PUBLICATIONS

- **Cremone, A.** (December, 2017). *Sleep: A New Treatment for ADHD?* Retrieved from https://www.huffingtonpost.com/entry/sleep-a-new-treatment-for_b_10404108.html

PUBLICATIONS IN PROGRESS (*undergraduate student)

- Otto, P.* , Hoyos-Murray, M*. & **Cremone-Caira, A.** (In Prep). *Race-Related Differences in Risk-Taking Behavior Among Preschool-Aged Children: A Pilot Study.*
- Ferguson, R.* & **Cremone-Caira, A.** (In Prep). Scared of Blowing It? Relations Between Risk Taking, Learning, and Anxiety.

CONFERENCE PRESENTATIONS (*undergraduate student)

- **Cremone-Caira, A.** & Faja, S. (2023). *Inhibition Challenges Relate to Maladaptive Sleep Outcomes in Autistic Preschoolers.* Poster presented at the 2023 Annual Meeting of the International Society for Autism Research, Stockholm, Sweden.
- **Cremone-Caira, A.**, Braverman, Y., MacNaughton, G, Nikolaeva, J.I., & Faja, S. (2021). *Greater P1 Mean Amplitude in Children with ASD versus ASD+ADHD During Pattern-Reversal VEP Task.* E-poster presented at the 2021 Annual Meeting of the International Society of Autism Research (Virtual).
- **Cremone-Caira, A.**, Nikolaeva, J.I., Sanchez, V., Gilbert, R., & Faja, S. (2020). *An Examination of Event-Related Potentials and Resting EEG Correlates of Executive Function Among School-Aged Children with ASD, ADHD and Typical Development.* Panel presentation accepted to the 2020 Annual Meeting of the International Society of Autism Research, Seattle, Washington.
 - Conference cancelled due to the COVID-19 pandemic.
- MacNaughton, G., **Cremone-Caira, A.**, Sanchez, V., Faja, S. (2020). *A Behavioral Analysis of Inhibitory Control in Preschoolers and Toddlers with ASD.* E-poster presented online during the 2020 Annual Meeting of the International Society of Autism Research, Seattle, Washington.
- **Cremone-Caira, A.**, Nikolaeva, J.I., Kohn, B., & Faja, S. (2019). *Neural Response to Cued Fixation in Children with and without Autism Spectrum Disorder (ASD).* Poster presented at the 2019 Annual Meeting of the International Society of Autism Research, Montreal, Canada.
- Kohn, B., **Cremone, A.**, Trier, K., Sanchez, V., Faja, S. (2019). *Comparing inhibitory profiles of children with ASD, ASD and inattention symptoms, and ASD and ADHD symptoms.* Poster presented at the 2019 Annual Meeting of the International Society for Autism Research, Montreal, Canada.

- MacNaughton, G., **Cremone, A.**, & Faja, S. (2019). *The relation between social functioning and executive control in preschool children with and without ASD*. Poster presented at the 2019 Annual Meeting of the International Society for Autism Research, Montreal, Canada.
- Nikolaeva, J.I., **Cremone-Caira, A.**, Gilbert, R., & Faja, S., (2019). *Error Monitoring Predicts Executive and Social Functioning in Autism Spectrum Disorder (ASD)*. Poster presented at the 2019 Annual Meeting of the International Society for Autism Research, Montreal, Canada.
- Sanchez, V., MacNaughton, G., **Cremone-Caira, A.**, Sherman, A., Gilbert, R., & Faja, S. (2019). *A Comparative Analysis of Neural Responses to Inhibition-Tasks in Children with ADHD and Typical Development*. Poster presented at the 2019 Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.
- Fitzroy, A.B., **Cremone, A.**, Spencer, R.M.C. (2018). *Characterizing the Effects of Sleep Extension on Overnight EEG Dynamics in Children with Attention-Deficit/Hyperactivity Disorder*. Poster presented at the 31st annual meeting of the Associated Professional Sleep Societies, Baltimore, MD.
- **Cremone, A.**, Buirkle, J., Trier, K., Gilbert, R., Faja, S. (2018). *Relations between Executive Function and Sleep in ASD Children with ADHD Symptoms*. Poster presented at the 2018 Annual Meeting of the International Society of Autism Research, Rotterdam, Netherlands.
- **Cremone, A.**, Harvey, E.A., McDermott, J.M., Spencer, R.M.C. (2017). *Sleep and Emotional Attention Biases in Young Children with and without ADHD Symptoms*. Poster presented at the 2017 Biennial Meeting of the Society for Research in Child Development, Austin, TX.
- **Cremone, A.**, Ng, A.*, Spencer, R.M.C. (2016). *Effects of Napping on Response Inhibition in Young Adults*. Poster presented at the 30th annual meeting of the Associated Professional Sleep Societies, Denver, CO.
- McHugh, S.R., **Cremone, A.**, de Jong, D.M., Spencer, R.M.C. (2016). *A New Way to Measure Sleep in Preschoolers? A Pilot Validation Study of Beddit, An Unobtrusive Sleep Recording Device*. Poster presented at the 30th annual meeting of the Associated Professional Sleep Societies, Denver, CO.
- Root, H.*, **Cremone, A.**, de Jong, D., Spencer, R.M.C. (2016). *The Effect of Socioeconomic Status on Sleep Among Preschool-Aged Children*. Poster presented at the 30th annual meeting of the Associated Professional Sleep Societies, Denver, CO.
- Campanella, C., de Jong D.M., Desrochers, P., Root, H.*, **Cremone, A.**, Kurdziel, L.B.F., Spencer, R.M.C. (2016). *To Nap or Not To Nap? Examining Sleep Behaviors in Preschool Children Under Typical and Nap-Promoted Conditions*. Poster presented at the 30th annual meeting of the Associated Professional Sleep Societies, Denver, CO.
- Ng, A.*, **Cremone, A.**, & Spencer R.M.C. (2016). *The Effects of Napping on Response Inhibition in Young Adults*. Poster presented at the 29th Annual NEURON Conference, North Haven, Connecticut.

- **Cremone, A.** & Spencer, R.M.C. (2015). *Effects of Overnight Sleep on Sustained Attention and Inhibitory Control in Young Children with ADHD*. Poster presented at the 8th Biennial Conference on Pediatric Sleep Medicine, Amelia Island, FL.
- Root H.*, **Cremone A.**, Spencer R.M.C. (2015). *Effects of Disrupted Sleep on Daytime Sleepiness Among Young Children with ADHD*. Poster presented at the Annual Conference of the New England Psychological Association, Fitchburg, MA.
- **Cremone, A.**, de Jong, D.M., Kurdziel, L.B.F., Desrochers, P., Sayer, A., LeBourgeois, M., McDermott, J.M., Spencer, R.M.C. (2015). *Association Between Bedtime, Child Temperament, and Externalizing Behaviors in Preschool-Aged Children*. Poster presented at the 29th annual meeting of the Associated Professional Sleep Societies, Seattle, WA.
- Desrochers, P., **Cremone, A.**, Peterson, B., Spencer, R.M.C. (2015). *Novel Actigraph Measures Demonstrate Greater Sleep Disturbance in Young Children with Symptoms of ADHD*. Poster presented at the 29th annual meeting of the Associated Professional Sleep Societies, Seattle, WA.
- Spencer, R.M.C., Desrochers, P., **Cremone, A.**, Peterson, B., Moreau, A. (2015). *An Objective Actigraphy Data Analysis Algorithm to Identify Novel Endpoints*. Poster presented at the 4th annual meeting of the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Limerick, Ireland.
- **Cremone, A.**, McDermott, J.M., Spencer, R.M.C. (2015). *Influence of Mid-Day Nap on Response Inhibition in Preschool-Aged Children*. Poster presented at the 2015 Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA.
- Hillsburg, D., **Cremone, A.**, Torres, A., Spencer, R.M.C., McDermott, J.M. (2014). *Influence of Daytime Sleep on Emotion Reactivity in Preschool Children*. Poster presented at the 2014 Cognitive Neuroscience Society Annual meeting, Boston, MA.
- **Cremone, A.**, Bologna, J., Propper, R. E., & Brunyé, T. T. (2012). *Sustained Unilateral Gaze Increases Memory for Local and Global Information*. Poster presented at the 24th Annual Association for Psychological Science Convention, Chicago, IL.
- **Cremone, A.**, Shaw, R. J., & Stroud, M. J. (2012). *Toward a New Theory of Release from Proactive Interference*. Poster presented at the 24th Annual Association for Psychological Science Convention, Chicago, IL.
- Bologna, J., **Cremone, A.**, Propper, R.E., & Brunyé, T.T. (2011). *Tympanic Membrane Temperature Measures Correlate with Spatial Episodic Recall*. Poster presented at the 23rd Annual Association for Psychological Science Convention, Washington, DC.

TEACHING EXPERIENCE

2023 – Merrimack College (Assistant Professor)

- *Psychological Inquiry and Methodology (PSY1100-W)*. This writing intensive course (like the *Research Methods* courses described below) introduces the various ways psychologists ask and answer questions about psychological processes. This course focused on research methodologies as well as the development of critical reading and writing skills (APA-format).

2020 – 2023 **Assumption University** (Assistant Professor)

- *Research Methods (PSY225)*. This course provides students an overview of the different methods and designs used in psychological research. Students will conduct a small, internal research project and present results in a formal written research report (APA-format).
- *Perception (PSY250)*. This course explores sensory and perceptual systems. Students will participate in computer-based experiments, perceptual simulations, and internet assignments.
- *Introduction to Brain and Behavior (PSY251)*. This course examines (a) the intricacies of the human nervous system and (b) how the nervous system supports cognition and behavior. Students will develop an understanding of contemporary neuroscience and common research techniques used to investigate the biological basis of human behavior.
- *Cognitive Neuroscience (PSY403)*. This course explores the neural basis of cognitive functions including, but not limited to, sensory inference, attention, learning and memory, decision making, and language. Throughout the course we will survey current research in cognitive neuroscience by critically reading empirical journal articles. Students will showcase their understanding and evaluation of this research using effective communication skills (written and oral).

2019 – 2020 **College of the Holy Cross** (Visiting Assistant Professor)

- *Cognition & Memory (PSYC236)*. This course examined the scientific study of human cognition and memory. Basic concepts and arguments underlying modern cognitive science will be reviewed and newer, developing theories will be introduced and supported with empirical research.
- *Research Methods (PSYC201)*. Please see description above.
- *Introduction to Psychology (PSYC100)*. This course provided an overview of fundamental concepts in the field of psychology, covering a wide range of topics including cognitive, developmental, social, and clinical psychology as well as neuroscience and research methodology.

2018 – 2019 **Merrimack College** (Adjunct Faculty)

- *Psychological Inquiry and Methodology (PSY1100-W)*. Please see description above.
- *Introduction to Psychology (PSY1000)*. Please see description above.

2018 – 2019 **Boston Children's Hospital** (Trainee Member)

- *Boston Children's Hospital Academy for Teaching and Educational Innovation and Scholarship*. Participated in an interprofessional and multi-disciplinary learning community that promoted teaching practices, education collaboration, and resource sharing through seminars, workshops, networking, and consultation.

2018 – 2019 **Boston Children's Hospital and Harvard Medical School** (Co-Instructor)

- *Laboratories of Cognitive Neuroscience Professional Development Series*. Led weekly summer seminar series that provided undergraduate volunteers and full-time research assistants an opportunity to learn about topics including 'choosing a career path', 'applying/interviewing with PhD programs', and 'work-life balance in academia.'
- *Laboratories of Cognitive Neuroscience Statistics Seminar Series*. Led weekly summer seminar series that provided undergraduate volunteers and full-time research assistants opportunities to learn about statistical methods used in psychological research (i.e., descriptive statistics, *t*-tests, ANOVAs, and regressions).

2015 – 2017 **University of Massachusetts Amherst** (Guest Lecturer)

- *Honors Developmental Psychology (PSYCH350H)*. Lectured on my graduate research in the field of developmental psychology (see Research Experience for more information).
- *Social and Emotional Development (PSYCH391SE)*. Lectured on core issues in social and emotional development.

2016 **University of Massachusetts Amherst** (Instructor)

- *Power Up for College Success*. Led a 3-day class for college freshmen that discussed opportunities available to students at the University and offered suggestions and strategies for a successful academic career.

2013 **University of Massachusetts Amherst** (Teaching Assistant)

- *Research Methods in Psychology (PSYCH241)*. Instructed an individual lab/discussion section that focused on the development and implementation of independent research and communication of psychological research via APA-formatted reports.

2008 – 2011 **Somerville Public Schools** (Substitute Teacher)

- Worked with developmentally delayed students in grades K-8 via instructional and recreational activity programs. Assisted in planning and implementing daily lesson plans intended to facilitate elementary school education.

2008 – 2010 **Merrimack College** (Tutor)

- *Lawrence Math and Science Partnership through Merrimack College's Steven's Leaning Center.* Tutored students in grades 5 through 8 at Bellesini Academy (Lawrence, MA) in math and science-based courses. Assisted students with their homework assignments and developed afterschool activities intended to reinforce concepts taught in the classroom.

INVITED PRESENTATIONS

- Sept 2023 **Biopsychosocial Correlates of Cognitive Functioning during Early Childhood**, Cognitive Science Alliance, Merrimack College, North Andover, MA
- Sept 2023 **Connect & Collaborate for Student Success: Understanding the Impact of Executive Functioning and Anxiety Disorders on Assumption Students and Discussing Strategies to Help Students Succeed**, Academic Support Center, Assumption University, Worcester, MA

ADDITIONAL EXPERIENCE

- 2023 – 2025 **PURSUE (Preparing Undergraduates for Research in STEM Using Electrophysiology) Faculty Learning Community**
- Working group that is revising a full semester course to teach undergraduate students about event-related potential (ERP) using evidence-based, vetted teaching materials, labs, data, assessments, and grading rubrics.
- 2021 – 2022 **UC San Diego Leading the Advancement of Underrepresented Neuroscientists for Change (LAUNCH) Program**
- The LAUNCH Program is one of three national faculty programs sponsored by the National Institute of Neurological Disorders and Stroke (NINDS). The program provides strong mentorship, professional skills, and research training to improve the long-term success of early career scholars from groups underrepresented in the biomedical workforce.
- 2013 – 2017 **University of Massachusetts Amherst**
- Graduate Research Assistant in the Somneuro Lab (formerly the Cognition and Action Lab; Advisor: Dr. Rebecca Spencer)
 - Evaluated sleep-dependent memory consolidation in preschool-aged children
 - Assessed the role of napping on emotional and non-emotional attention and executive functioning in preschool-aged children
- 2013 – 2015 **University of Massachusetts Amherst**
- Graduate Research Assistant in the Learning Lab (Advisor: Dr. Jennifer Martin-McDermott)

- Evaluated the cumulative effects of sleep and temperament (i.e., temperamental negative affect) on behavioral outcomes in preschool-aged children

2012 – 2013 Charles River Laboratories

- Technologist in the Molecular Diagnostics Department
 - Tested lab animals for strains of viruses and bacteria with PCR

2011 – 2012 Merrimack College

- Undergraduate Research Assistant in the Context, Attention, Memory and Perception Lab (Advisors: Drs. Michael Stroud and Raymond Shaw)
 - Studied the role of context in proactive interference and release from proactive interference

2011 Boston University

- Undergraduate Research Assistant in the Anatomy and Neurobiology Department (Advisor: Dr. Richard Jarrett Rushmore III)
 - Measured the efficacy of transcranial direct current stimulation in treating visual-spatial neglect

2008-2012 Merrimack College

- Undergraduate Research Assistant to Dr. Ruth Propper
 - Assessed relations between handedness and emotional valence
 - Measured the effects of sustained unilateral gaze on episodic recall of global versus local spatial information

ACADEMIC AWARDS AND HONORS

- Golden Neuron Award awarded by the Neuroscience and Behavior Program at the University of Massachusetts Amherst (Spring 2016)
- Trainee Merit Award awarded by the Sleep Research Society (Spring 2016)
- Travel Award awarded by the Sleep Research Society (Spring 2015)
- University of Massachusetts Amherst's Center for Research on Families' Family Research Travel Award (Spring 2015)
- Merrimack College Outstanding Leader Award for the Class of 2012 for notable leadership skills in clubs and organizations on campus (Spring 2010)
- Merrimack College Presidential Scholarship, Martin and Nora Kelly Scholarship, Dean Scholarship, President's List (Fall 2008, Fall 2010, Spring 2011, Fall 2012, Spring 2012), Dean's List (Spring 2009, Fall 2009, Spring 2010)

FUNDING

Previous Research Funding

- \$1,250 – Research Award from the Committee on Faculty Scholarship at the College of the Holy Cross (2019-2020)

Project Title: *Assessing Relations between Risk-Taking Behaviors and Symptoms of Attention-Deficit / Hyperactivity Disorder during Preschool*

Role: Principal Investigator

- \$1,000 - Graduate School Dissertation Research Grant awarded by the University of Massachusetts Amherst (Spring 2016)
- \$1,300 – Grant via Experiment.com (Spring 2016)

Submitted Research Funding

- \$44,570 – Sleep Research Society Career Development Award (2020-2021)

Project Title: *Examining Racial Disparities in Sleep and Cognition During Early Childhood*

Role: Principal Investigator

- \$160,000 – Deborah Munroe Noonan Memorial Research Fund (2019-2021)

Project Title: *Predicting Comorbid Symptoms of Attention-Deficit / Hyperactivity Disorder in Preschoolers with Autism Spectrum Disorder via Reward and Emotion Processing*

Role: Principal Investigator

- \$46,000 (approx.) – Ruth L. Kirschstein Predoctoral Individual National Research Service Award (F31) (2015-2017)

Project Title: *Assessing Sleep Physiology and Behavior in Children At-Risk for ADHD*

Role: Principal Investigator

Pending Research Funding

- \$50,000 – Sleep Research Society Career Development Award (2023-2024)

Project Title: *Examining Racial Disparities in Sleep and Cognition During Early Childhood*

Role: Principal Investigator

- \$300,000 (approx.) – NIH Research Enhancement Award (R15) (2024-2027)

Project Title: *Behavioral and Neural Correlates of Adaptive Risk-Taking Behavior in Preschool-Aged Children*

Role: Principal Investigator

ADDITIONAL MENTORSHIP ROLES

2020 – [Skype a Scientist](#)

- Skype a Scientist is a group of 5,000+ scientists who are available to video chat with classrooms of students around the world. The goal is to provide students positive experiences with scientists where they can learn about their background, and ask questions based upon the scientist's expertise.

- In March 2021, I Zoomed with a group of Girl Scouts from Brooklyn, NY.
- In February 2021, I Zoomed with a group of Girl Guides (a group similar to the Girl Scouts) from Mission, Canada.
- In October 2020, I Zoomed with an AP Psychology from Bishop O'Dowd High School in Oakland, CA.

2020 – **Project SHORT Mentor**

- Project SHORT offers free consultation to students interested in applying for graduate and medical school. Services include personal statement editing, school selection assistance, mock interview practice, and general advice.
 - Mentoring 1 post-baccalaureate student in preparation for the 2022-2023 academic cycle
 - Mentored 1 student during the 2020-2021 academic cycle who was admitted to an Educational Psychology Program (Ph.D.) at the University of Connecticut

2017 – 2020 **Boston Children's Hospital and Harvard Medical School**

- *Faja Lab*
 - Site trainer for the cognitive electrophysiology team (EEG, eye-tracking)
 - Mentorship of 6+ full-time research assistants and 5+ undergraduate volunteers (per year)

2013 – 2017 **University of Massachusetts Amherst**

- *Cognition and Action Lab*
 - Mentorship of 10+ undergraduate research assistants (2-3 students per semester)
 - Mentorship of 1+ undergraduate honor's thesis student(s) annually

PROFESSIONAL SERVICE

Ad-Hoc Reviewer

- *Biological Psychiatry, Scientific Reports, International Journal of Psychophysiology, British Journal of Clinical Psychology, Autism Research, Behavioral Sleep Medicine, Sleep Medicine, Journal of Psychiatric Research, Research in Developmental Disabilities*

2020 – 2021 **Assumption University**

- *Institution Review Board.* Members of this committee review and discuss proposed research protocols to protect the rights and welfare of human research subjects and ensure ethical standards are followed.

- *Neuroscience Advisory Committee.* Members of this committee work together to organizing programming and curriculum for the Center for Neuroscience at Assumption University.
- *Faculty Development Committee.* Members of this committee review and select applications for course releases and faculty development awards.
- *Nu Rho Sci Co-Advisor.* [Nu Rho Psi](#) is the National Honor Society in Neuroscience. As a co-advisor of Assumption's chapter of Nu Rho Psi, I identify and invite eligible students into our chapter, select and mentor program officers, and assist with chapter programming.
- *Summer Research Fellowship Mentor.* Mentors train and oversee undergraduate students as they complete independent research projects over the summer.
- *First-Year Common Book Selection Committee.* Members of this committee review and discuss a list of books (nominated by students, faculty, and administrators) to (a) select a book that will be assigned to all incoming, first-year undergraduates at the University and (b) plan co-curricular events to facilitate discussion of the selected book.

2019 – 2020 **College of the Holy Cross**

- *Co-Coordinator of the Psychology Research Participant Pool.* The co-coordinators work with instructors of *Introduction to Psychology* to recruit undergraduate students into the Research Participant Pool. The contact information of interested/eligible participants is then randomly assigned to studies run by faculty in the Psychology Department to facilitate research productivity.
- *Holy Cross First-Generation College Graduate Campus Campaign.* Faculty provide support and mentorship to first-generation college students (i.e., students who are the first in their family to attend a four-year institution in higher education).

2016 – 2017 **Sleep Research Society**

- *Subcommittee Member on the Trainee Education Advisory Committee.* Organized events intended to facilitate professional development and networking among trainees at the annual meeting of the Associated Professional Sleep Societies.

2013 – 2017 **University of Massachusetts Amherst**

- *Interdepartmental Graduate Program Student Representative for the Neuroscience and Behavior Program.* Served as a graduate student representative on a committee that discussed student-based curriculum (e.g., funding, seminar planning, etc.) and communicated ideas or concerns between students and the graduate program office. Representatives also aided in planning interdepartmental events.

- *Co-Chair of the Recruitment Committee for Admission to the Neuroscience and Behavior Program.* Worked with the admission committee to identify and recruit promising students for the Neuroscience and Behavior graduate program. Responsibilities included event planning and communication with interviewers/interviewees.
- *Vice President of the Brain/Behavior Regulatory Organization.* Promoted social and professional development for graduate students in the Neuroscience and Behavior graduate program.
- *Educational Outreach – Brain Awareness Week.* Organized activities to promote neuroscience via exhibitions, lectures, and workshops about brain science.
- *Student Leader in the Temperament Journal Club in the Learning Lab.* Selected articles and led group discussion in an undergraduate/graduate level journal club.

2008 – 2012 **Merrimack College**

- *Mentor in The Warrior Network.* Provided mentorship for Merrimack College undergraduate students as they navigated career paths.
- *President of the Merrimack College Chapter of Psi Chi.* Stimulated and supported the academic and professional growth of members of the chapter while offering service to the institution.
- *Vice President of Class of 2012 Council.* Organized class wide events and promoted school spirit.
- *Mission Effectiveness Council.* Served as a student representative on a council of faculty, administrators and students who organized campus wide events to promote the understanding and efficacy of Merrimack College's Mission Statement.
- *Merrimack Programming Board.* Planned and staffed both academic and non-academic events on-campus.