

Amanda C. Wylie  
CURRICULUM VITAE

**CONTACT INFORMATION**

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**EDUCATION**

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**2019-2024 Ph.D., Psychology and Neuroscience**

**(Expected)** University of North Carolina at Chapel Hill  
Major Area: Developmental Psychology  
Doctoral Minor: Epidemiology  
Advisor: Dr. Cathi Propper

**2019-2021 M.A., Psychology and Neuroscience**

University of North Carolina at Chapel Hill  
Major Area: Developmental Psychology  
Advisor: Dr. Cathi Propper  
Master's thesis: "Maternal prenatal toxic metal exposure and neonatal neurodevelopment: testing moderations by maternal psychological and social stressors."

**2013-2015 M.S.P.H., Population, Family, and Reproductive Health**

Johns Hopkins Bloomberg School of Public Health  
Certificate: Child Health and Development  
Advisors: Dr. Kristin Voegtline and Dr. Susan Gross  
Master's thesis: "Antenatal trait anxiety is related to child behavioral outcomes and stress physiology: a prospective study using teacher report."

**2009-2013 B.S., Biobehavioral Health**

Pennsylvania State University  
Minor: Human Development and Family Studies

**RESEARCH EXPERIENCE**

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**2021-Present Biosocial Trainee, Carolina Population Center, The University of North Carolina- Chapel Hill**

Faculty Preceptors: Dr. Keely Muscatell and Dr. Rebecca Fry

- Selected to receive interdisciplinary training in the fields of the social and biological sciences
- Trainees complete at least 15 hours of coursework in the integration of the biological and social sciences and in a gap area (epidemiology)

**2019-Present Graduate Research Assistant, The University of North Carolina- Chapel Hill**

Brain and Early Experiences Study, P.I. Dr. Cathi Propper

- Performs data cleaning, scoring, and management across multiple data sources and overlapping timepoints for longitudinal study consisting of 200 mother-infant pairs.
- Leads the coordination of biological sample collection and analysis (e.g., blood, urine, saliva, stool, hair) across multiple timepoints.
- Oversees undergraduate students on various laboratory tasks, including data entry across multiple sources and timepoints, medical record review, and behavioral coding.
- Leads the "Silicone Band Mini-Study"—a pilot test of the use of silicone wristbands and ankle bands in toddlers to ascertain environmental exposure to household contaminants (e.g., phthalates, PAHs).
- Leads the 36-month laboratory assessment—the final assessment point of the longitudinal study, in which we conduct assessments of executive functioning, emerging vocabulary abilities, physical activity, and self-regulation.

**2015-2019 Education Analyst, RTI International**

- Served in a range of capacities for research studies of varying magnitudes and complexities. Projects surrounded early childhood health and development, K-5 education, children with special health care needs, family health, and genetics services.

### ***Selected Projects at RTI International:***

Kids Activity and Learning Study, P.I. Dr. Michael Willoughby.

- Co-developed, oversaw, and carried out protocols for preschool and family recruitment, data collection, data management, and analysis. Trained full-time primary data collector on all data collection activities.
- Managed the planning, assessment, and scoring for hundreds of preschool children on the domains of cognitive and motor functioning at multiple timepoints over an academic year.
- Oversaw study IRB and reporting of yearly expenditures and activities to the funding agency.

Computer Games for Learning Study, P.I. Dr. Michael Willoughby

- Coordinated with the IRB, developed study protocols, gathered assessments, liaised with school coordinators.

Making Pre-K Count, P.D. Dr. Jean Lennon

- Assisted with instrument development, coordination of project materials, training and certifying field interviewers, and school recruitment.

Our Fragile X World (OFXW) P.I. Dr. Don Bailey

- Coordinated data management across numerous enrollments and surveys; responsible for cleaning and coding data with complex logic and multiple children per family (3,600 children, 1,800 families); created pre-loads for surveys based on eligibility criteria.
- Conducted statistical analyses by choosing appropriate analyses, fitting models, and summarizing analyses and results for various manuscripts and presentations.

New York Mid-Atlantic Genetics Consortium (NYMAC), P.D. Dr. Melissa Raspa

- Developed surveys, evaluation plans, and logic models.
- Responsible for all data management and analysis. Contributed to products for dissemination.

**2013-2015**

### **Graduate Research Assistant, Johns Hopkins Bloomberg School of Public Health**

Prenatal Indicators of Child Self-Regulation Study, P.I. Dr. Kristin Voegtline

- Employed SAS programming to clean, code, and analyze maternal antenatal psychiatric measures, child behavioral outcomes, and child cortisol.
- Assisted with data collection by scheduling home visits, collecting data from parents and children during home visits, and organizing and prepping materials.
- Trained and supervised research assistants on data collection procedures and coding.

**Summer  
2014**

### **Graduate Student Intern, Epidemiology Branch of the NICHD**

Upstate KIDS Study, P.I. Dr. Edwina Yeung

- Employed SAS programming to clean, code, and analyze time-to-event data for achievement of infants' gross motor developmental milestones.

**2010-2013**

### **Undergraduate Research Assistant, Pennsylvania State University**

Infant and Child Temperament Study, P.I. Dr. Cynthia Stifter

- Performed data collection with infant and mother research participants as a facilitator of lab visits for study when infants were 6, 12, and 18 months old. Collaborated in teams to code maternal and infant behavior.

## **PUBLICATIONS**

### **Manuscripts In-Prep**

Gomes L, Kolacz J, **Wylie A**, Holochwost S. The Effects of Maltreatment in Childhood and Adolescence on HPA Axis Activity: A Meta-Analysis Anticipated Submission: August 2022.

### **Manuscripts Under Review**

**Wylie A**, Short S. Environmental toxicants and the developing brain. Invited for a special issue in *Biological Psychiatry*.

Goldblum J, **Wylie A**, Putnam O, Harrop C. The intersectionality of assigned sex at birth, race, and ethnicity in predicting the prevalence and timing of autism diagnosis.

**Peer-Reviewed Manuscripts**

Camerota M, **Wylie AC**, Goldblum J, Wideman L, Cheatham CL, Propper CB. Testing a cascade model linking prenatal inflammation to child executive function. In press, *Behavioural Brain Research*.

Willoughby M, Hudson K, Hong Y, **Wylie A**. Improvements in Motor Competence Skills are Associated with Improvements in Executive Function and Math Problem-Solving Skills in Early Childhood. *Developmental Psychology*. 2021; 57(9): 1463–1470.

Wheeler AC, **Wylie A**, Raspa M, Villagomez A, Miller K, Edwards E, DeRamus M, Appelbaum P, Bailey DB. Decisional Capacity for Informed Consent in Males and Females with Fragile X Syndrome. *J Autism Dev Disord*. 2020 May; 50(5):1725-1747. PubMed PMID: 30825084.

Willoughby MT, Hong Y, Hudson K, **Wylie A**. Between and Within-Person Contributions of Simple Reaction Time to Executive Function Skills in Early Childhood. *J Exp Child Psychol*. 2020 Apr; 192: 104779. Epub 2020 Jan 14. PubMed PMID: 31952815.

Willoughby MT, **Wylie AC**, Blair C. Using Repeated Measures Data to Make Stronger Tests of the Association between Executive Function Skills and Attention Deficit/Hyperactivity Disorder Symptomatology in Early Childhood. *J Abnorm Child Psychol*. 2019 Nov; 47(11): 1759-1770. PubMed PMID: 31089981; PubMed Central PMCID: PMC6984755

McCormack LA, **Wylie A**, Moultrie R, Furberg RD, Wheeler AC, Treiman K, Bailey DB, Raspa M. Supporting Informed Clinical Trial Decisions: Results from a Randomized Controlled Trial Evaluating a Digital Decision Support Tool for Those with Intellectual Disability. *PLoS ONE*. 2019 Oct; 14(10): e0223801. PubMed PMID: 31644588; PubMed Central PMCID: PMC6808417.

Wheeler AC, Okoniewski KC, **Wylie A**, DeRamus M, Hiruma LS, Toth D, Christian RB. Anxiety-Associated and Separation-Distress-Associated Behaviors in Angelman Syndrome. *J Intellect Disabil Res*. 2019 Oct; 63(10) 1234-1247. PubMed PMID: 31134691.

Terry AB, **Wylie A**, Raspa M, Vogel B, Sanghavi K, Djurjinovic L, Caggana M, Bodurtha J. Clinical Applications of Telehealth in Genetics: A Regional Telegenetics Landscape. *Journal of Genet Couns*. 2019 Jun; 28(3). 673-691. Epub 2019 Mar 2. PubMed PMID: 30825358.

Willoughby MT, **Wylie AC**, Little M. Testing Longitudinal Associations Between Executive Function and Academic Achievement. *Dev Psychol*. 2019 Apr; 55(4): 767-799. Epub 2018 Dec 27. PubMed PMID: 31328947.

Wheeler AC, **Wylie A**, Villagomez A, Bishop E, Raspa M. Health care for individuals with fragile X Syndrome: Understanding access and quality. *Disabil Health J*. 2019 Apr;12(2):269-277. doi: 10.1016/j.dhjo.2018.11.004. Epub 2018 Nov 7. PubMed PMID: 30442576.

Wheeler AC, Miller S, **Wylie A**, Edwards A. Mindfulness and Acceptance as Potential Protective Factors for Mothers of Children with Fragile X Syndrome. *Front Public Health*. 2018 Nov; 6:316. PubMed PMID: 30460222; PubMed Central PMCID: PMC6232517.

Raspa M, **Wylie A**, Wheeler AC, Kolacz J, Edwards A, Heilman K, Porges SW. Sensory Difficulties in Children with an FMR1 Premutation. *Front Genet*. 2018; 9:351. Epub 2018 Aug 28. PubMed PMID: 30233641; PubMed Central PMCID: PMC6127619.

Raspa M, Fitzgerald T, Furberg RD, **Wylie A**, Moultrie R, DeRamus M, Wheeler AC, McCormack L. Mobile Technology Use and Skills Among Individuals with Fragile X Syndrome: Implications for Healthcare Decision Making. *J Intellect Disabil Res*. 2018 Oct; 62(10): 821-832. Epub 2018 Aug 13. PubMed PMID: 30105880; PubMed Central PMCID 6340143.

Barrett TS, **Wylie A**, Vogel B, Sanghavi K, Raspa M, Aveni KP, Tullis K, Caggana M, White KR, Bodurtha J. Where Do We Go From Here? The Need for Genetic Referrals in Patients who are Deaf or Hard of Hearing: Findings from a Regional Survey. *Journal of Early Hearing Detection and Intervention*. 2018; 3(1): 36-53.

Raspa M, Franco V, Bishop E, Wheeler AC, **Wylie A**, Bailey DB. A Comparison of Functional Academic and Daily Living Skills in Males with Fragile X Syndrome With and Without Autism. *Res Dev Disabil*. 2018 Jul; 78: 1-14. Epub 2018 May 3. PubMed PMID: 29730505.

Wylie CV

Willoughby MT, **Wylie AC**, Catellier DJ. Testing the Association between physical activity and Executive Functions in Early Childhood. *Early Childhood Research Quarterly*. 2017 Dec; 44(3): 82-89.

Kidd SA, Raspa M, Clark R, Usrey-Roos H, Wheeler AC, Liu JA, **Wylie A**, Sherman SL. Attendance at Fragile X Specialty Clinics: Facilitators and Barriers.” *Am J Intellect Dev Disabil*. 2017 Nov; 122(6): 457-475. PubMed PMID: 29115871.

Fabiano GA, Schatz NK, Morris KL, Willoughby MT, Vujnovic RK, Hulme KF, Riordan J, Howard M, Hennessy D, Lewis K, Hawk L, **Wylie A**, Pelham WE. Efficacy of a Family-Focused Intervention for Young Drivers with Attention-Deficit Hyperactivity Disorder. *J Consult Clin Psychol*. 2016 Dec; 84(12): 1078-1093. Epub 2016 Sep 12. PubMed PMID: 27618640; PubMed Central PMCID: PMC5125890.

Ghassabian A, Sundaram R, **Wylie A**, Bell E, Bello SC, Yeung E. Maternal Medical Conditions During Pregnancy and Children's Gross Motor Development up to Age 24 Months in the Upstate KIDS Study. *Dev Med Child Neurol*. 2016 Jul; 58(7): 728–734. Epub 2015 Oct 26. PubMed PMID: 26502927; PubMed Central PMCID: PMC4846588.

**Wylie A**, Sundaram R, Kus C, Ghassabian A, Yeung EH. Maternal Pre-Pregnancy Obesity and Achievement of Infant Motor Developmental Milestones in the Upstate KIDS Study. *Obesity (Silver Spring)*. 2015 Apr; 23(4): 907–913. Epub 2015 Mar 7. PubMed PMID: 25755075; PubMed Central PMCID: PMC4380825.

### Book Chapters

Kick M, Colgan S, **Wylie A**, Bailey DB. Promoting family outcomes in early intervention. In J. Kauffman, D. Hallahan, & P. Pullen (Eds.), *Handbook of Special Education 2017; 2nd Ed.*, 811-828. New York: Routledge.

### Selected Posters and Presentations

**Wylie A**, Rager R, Fry R, Propper C. Unique and Joint Effects of Maternal Exposure to Phthalates and Experiences of Racism on Infant Behavior. Poster Presentation. Annual Meeting for the Society for Pediatric and Perinatal Epidemiologic Research. Chicago, IL. June 2022.

Barr J, Propper C, **Wylie A**, Stephens R, Short S. Examining the effects of maternal psychopathology on neonatal neurodevelopment and infant temperament. Poster Presentation. Flux Society for Cognitive Neuroscience Annual meeting. September 2021. Virtual due to COVID-19.

**Wylie AC**, Propper C, Willoughby MT, Camerota C, Short S. Maternal Prenatal Metal Exposures and Indices of Neonatal Brain Development: Moderations by Maternal Psychological and Social Stressors. Oral Presentation. Society for Research in Child Development Biennial Meeting. April 2021. Virtual due to COVID-19.

Gomes L, **Wylie AC**. The Effects of Maltreatment in Childhood and Adolescence on HPA Axis Activity: A Meta-Analysis. Oral Presentation. Society for Research in Child Development Biennial Meeting. April 2021. Virtual due to COVID-19.

Loubier L, Short S, **Wylie AC**, Bar, J, Propper C. Prenatal Perceived Stress and Financial Strain on Infants' Cognition: The Role of Maternal Attention-Recruiting Behaviors. Poster Presentation. Society for Research in Child Development Biennial Meeting. April 2021. Virtual due to COVID-19.

**Wylie AC**, Camerota M, Goldblum J, Cheatham C, Wideman L, Propper C. Maternal Prenatal Inflammatory Biomarkers and Child Executive Functions: Cascading Effects Through Infant Cognition. Poster Presentation. International Society for Developmental Psychobiology Conference. October 2020. Virtual due to COVID-19.

Goldblum JE, **Wylie AC**, Propper C. Sustained Attention in Infancy: An Early Marker of Enhanced Biological Sensitivity to Context. Poster Presentation. International Society for Developmental Psychobiology Conference. October 2020. Virtual due to COVID-19.

**Wylie AC**, Wang G, Rong X, Propper C, Short S. Testing Multiple Risk Factors Associated with Maternal Prenatal Inflammation and Infant Amygdala Volumes. Poster Presentation. Flux Society for Cognitive Neuroscience Annual meeting. September 2020. Virtual due to COVID-19.

McCormack L, **Wylie A**, Rupert D, Moultrie R, Raspa M, Furberg R, Wheeler AC. Engaging Individuals with Intellectual Disability in Clinical Trial Decision-Making Through an Interactive Decision Support Tool. Poster Presentation.

American Psychological Association's Division 33 on Intellectual and Developmental Disabilities/Autism Spectrum Disorder (IDD/ASD) Convention. August 2019. Chicago, IL.

**Wylie AC**, Jones AM, Willoughby MT. Testing the Effect of Physical Activity and ADHD Symptoms on Executive Functions in Early Childhood. Poster Presentation. Society for Research in Child Development Biennial Meeting. Baltimore, MD. March 2019.

Jones AM, **Wylie AC**, Willoughby MT. Testing Observations of Physical Activity and Play as Predictors of Executive Function in Early Childhood. Poster Presentation. Society for Research in Child Development Biennial Meeting. Baltimore, MD. March 2019.

Willoughby MT, **Wylie AC**, Jones AM. Motor Proficiency—Not Moderate to Vigorous Physical Activity—is Related to Executive Function Skills in Early Childhood. Oral Presentation. Movementis Conference. Boston, MA. July 2018.

Wheeler AC, Miller S, Edwards A, **Wylie A**, Okoniewski C, Moultrie R. Stress, Daily Hassles, and Coping in Mothers of Children with Fragile X Syndrome. Oral Presentation. Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities. San Diego, CA. April 2018.

Lennon J, **Wylie A**. Can the U.S. Assess Developmentally 'On Track' in Early Childhood? A Look at the Available Data." Oral Presentation. Society for Research in Child Development Biennial Meeting. Austin, TX. April 2017.

Wheeler AC, Raspa M, **Wylie A**, Bishop E, Bailey D. "Health and Well-Being Among Non-Affected and Premutation Siblings of Individuals with Fragile X Syndrome." Oral Presentation. International Conference on the FMR1 Premutation, Siges, Spain. October 2015.

Ghassabian A, Sundaram R, **Wylie AC**, Bell E, Bello SC, Yeung EH. "Maternal Medical Conditions During Pregnancy and Children's Gross Motor Development Up to Age 24 Months in the Upstate KIDS Study." Oral Presentation. Society for Epidemiological Research Annual Meeting and Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting. Denver, CO. June 2015.

#### **GRANTS - AWARDED**

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- 2021 Principal Investigator, "Testing the feasibility of using silicone bands to ascertain exposure to environmental contaminants in children younger than 3." North Carolina Translational and Clinical Sciences (NC TraCS) Institute at UNC-Chapel Hill, \$2,000 in direct costs
- 2021 Proposal Leader, "Testing mothers' silicone wristbands collected at 6- and 18-months postpartum for household chemicals associated with child neurodevelopment." Human Health Exposure Analysis Resource (HHEAR) Program Pilot & Feasibility Grant, \$25,000 in direct costs. Principal Investigator: Dr. Julia Rager.
- 2021 Collaborator, "Prenatal arsenic exposure and infant development at 6 months of age: The role of the gut microbiota." Center for Environmental Health and Susceptibility (CEHS) Pilot Project Program, \$50,000 in direct costs. Principal Investigators: Dr. Cathi Propper and Dr. Rebecca Fry.
- 2021 Proposal Leader, "The joint impact of prenatal psychosocial stressors and toxic metal exposure on infants' brain and behavioral development in a low-income sample." University of Wisconsin Fall Research Competition. \$21,000 in direct costs. Principal Investigator: Dr. Sarah Short.

#### **GRANTS - APPLIED**

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- 2021, Resubmitted 2022 Principal Investigator, "Latent profiles of prenatal exposure to toxic metals and psychosocial risk and protective factors: testing associations with child developmental outcomes and moderations by caregiving experience." National Institutes of Health Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship (Parent F31).

#### **TEACHING ACTIVITIES**

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- Fall 2021 Instructional Assistant: Social Media, Technology, & the Adolescent Brain, University of North Carolina-Chapel Hill. Instructor of Record: Rosa Li, Ph.D.
- Summer 2021 Instructional Assistant: Research Methods, University of North Carolina- Chapel Hill. Instructor of Record: L. Grant Canipe, Ph.D.

Fall 2020 Instructional Assistant: Introduction to Psychology, University of North Carolina- Chapel Hill. Instructor of Record: Jeannie Loeb, Ph.D.  
Spring 2015 Teaching Assistant: Reproductive and Perinatal Epidemiology, Johns Hopkins Bloomberg School of Public Health. Instructors of Record: Donna Strobino, Ph.D. And Caroline Moreau, Ph.D.

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### PROFESSIONAL DEVELOPMENT

May 2022 “Latent Class/Cluster Analysis and Mixture Modeling” by Curran-Bauer Analytics. Chapel Hill, NC.  
Aug 2021 “Environmental Mixtures Workshop: Applications in Environmental Health Studies” By Columbia University. Online due to COVID-19.  
Dec 2020 “Geospatial Data Analysis” by Data Matters. Online due to COVID-19.  
May 2018 “IRT Pro” by Scientific Software International, Inc. Chicago, IL.  
June 2016 “Longitudinal Structural Equation Modeling” by Curran-Bauer Analytics. Chapel Hill, NC.  
June 2016 “Structural Equation Modeling” by Curran-Bauer Analytics. Chapel Hill, NC.

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### HONORS AND AWARDS

2019 North Carolina Excellence Fellowship, University of North Carolina at Chapel Hill  
2018 Highly Published Author, RTI International  
2015 Master’s Essay with Distinction, Department of Population, Family, and Reproductive Health, Johns Hopkins Bloomberg School of Public Health  
2014 Maternal and Child Health Training Grant from the Maternal and Child Health Bureau, awarded through the Johns Hopkins Bloomberg School of Public Health  
2014 Wendy Klag Center for Autism and Developmental Disabilities Memorial Scholar, Johns Hopkins Bloomberg School of Public Health

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### SERVICE

- 2021-2022 Graduate Student Representative to the UNC-CH Developmental Psychology program
- 2021-2022 Justice, Equity, Diversity, and Inclusion - Graduate Recruitment & Retention subcommittee member for the UNC-CH Psychology and Neuroscience Department and a member of the Diversifying Psychology Planning Committee
- Ad-hoc peer reviewer with doctoral advisor, Dr. Propper
- 2020-2021 UNC-CH Developmental Psychology Seminar Series Planning Committee Member
- 2021 UNC-CH Developmental Psychology Interview Day Planning Committee Member
- 2018-2019 Marbles Children’s Museum Big Kids Corps Volunteer Member
- 2017-2019 RTI International Women’s Leadership & Advancement Working Group Member

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### MENTORSHIP

2020-2021 Undergraduate psychology student, UNC-CH at the University of North Carolina- Chapel Hill, Lindsay Loubier on her senior honors thesis: “*Prenatal perceived stress and financial strain on infants’ cognition: the role of maternal engaging behaviors.*”  
2021-2022 Undergraduate psychology student at the University of North Carolina- Chapel Hill, Selma Sabra on her senior honors thesis: “*Exploring the unique and joint impacts of early life exposure to stress and breastfeeding on toddler language development.*”  
2022-2023 Undergraduate psychology student at the University of North Carolina- Chapel Hill, Caroline Frisch on her senior honors thesis.