

MARIEL K. BARNETT

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[Google Scholar](#) | [ResearchGate](#) | [LinkedIn](#) | [GitHub](#) | [OSF](#)

EDUCATION

Purdue University – West Lafayette, IN

Aug 2024 – expected 2027

Ph.D., Cognitive Psychology

Advisor: Brooke N. Macnamara, PhD

Case Western Reserve University – Cleveland, OH

July 2022 – Aug 2024

M.A., Cognitive Psychology

Thesis: Recalculating avoidance: Math anxiety predicts avoidance
of effortful problem solving

Advisor: Brooke N. Macnamara, PhD

Georgia Institute of Technology – Atlanta, GA

June 2017 – May 2021

B.S., Psychology, *summa cum laude*

B.S., History, Technology, and Society, *summa cum laude*

Thesis: Association of financial obligations, stress, and subjective
wellbeing for university students

Advisor: Christopher Hertzog, PhD

University of Oxford – Oxford, UK

May – Aug 2019

Georgia Institute of Technology Sponsored Study Abroad Program

RESEARCH INTERESTS

Performance in high-stakes settings | Academic performance anxiety | Theories of achievement
Maladaptive academic behaviors | Distraction, rumination, and mind wandering

PUBLICATIONS

[prereg] = preregistered; [open] = open data; [n/a] = no original data

PEER-REVIEWED JOURNAL ARTICLES

***Barnett, M. K., & Macnamara, B. N. (2023).** Individual responses versus aggregate group-level results: Examining the strength of evidence for growth mindset interventions on academic performance. *Journal of Intelligence*, 11(6), 104.

<https://doi.org/10.3390/jintelligence11060104> [n/a]

***Editor's Choice Paper**

Mashburn, C. A., **Barnett, M. K.**, & Engle, R. W. (2023). Processing speed and executive attention as explanations of intelligence differences. *Psychological Review*, 131(3), 664–694. <https://doi.org/10.1037/rev0000439> [n/a]

MANUSCRIPTS IN PREPARATION

Barnett, M. K., LaFollette, K. J., & Macnamara, B. N. (In Revision). Math anxiety predicts resistance to solving challenging math problems. [[prereg](#); [open](#)]

Barnett, M. K., Frank, D. J., Burgoyne, A. P., & Macnamara, B. N. (In Preparation). To persevere or perseverate? Examining grit as a predictor of decision-making. [[prereg](#); [open](#)]

RESEARCH IN PROGRESS

Barnett, M. K. Investigating the role of math anxiety as a predictor of decisions to engage in math-specific academic procrastination.

Barnett, M. K. Math anxiety and manifestations of distraction and localized avoidance during mathematical problem solving.

PEER REVIEWED CONFERENCE PROCEEDINGS

Barnett, M. K., LaFollette, K. J., & Macnamara, B. N. (2024, July). Distraction in math anxious individuals during math effort-based problem solving. Conference proceedings paper in L. K. Samuelson, S. Frank, M. Toneva, A. Mackey, & E. Hazeltine (Eds.), *Proceedings of the Annual Meeting of the Cognitive Science Society*, 46. [[prereg](#)]

CONFERENCE PRESENTATIONS

Barnett, M. K., LaFollette, K. J., & Macnamara, B. N. (2025, November). *To persevere or perseverate? Examining grit as a predictor of decision-making*. Data blitz talk presented at the 66th Annual Meeting of the Psychonomic Society, Denver, CO.

Barnett, M. K., LaFollette, K. J., & Macnamara, B. N. (2024, July). *Distraction in math anxious individuals during math effort-based problem solving*. Talk presented at the 2024 Annual Meeting of the Cognitive Science Society, Rotterdam, the Netherlands.

Barnett, M. K. (2021, April). *Child poverty and mental health: Pathways toward future psychological and policy-making decisions*. Symposium presented at the Georgia Tech School of History and Sociology Biannual Undergraduate Research Symposium, Atlanta, GA.

Barnett, M. K. (2021, March). *What's the message: The power of a protest song*. Talk and discussion panel presented at the Phi Alpha Theta Georgia Regional Conference, Virtual Conference.

Alexander, C., **Barnett, M. K.**, Choudhury, A., Molina-Veronico, K., Turner, T., Welsko, L., & Whiteman, D. (2020, November). *Turmoil in the 1960s: Confronting change in the "City Too Busy to Hate."* Talk presented at the Georgia Tech School of History and Sociology Biannual Undergraduate Research Symposium, Atlanta, GA.

Barnett, M. K. (2019, November). *History of LGBTQ research and therapy in psychology.* Talk presented at the Georgia Tech School of History and Sociology Biannual Undergraduate Research Symposium, Atlanta, GA.

POSTER PRESENTATIONS

Barnett, M. K., LaFollette, K. J., & Macnamara, B. N. (2025, November). *Mechanisms of avoidance: Predictors of math decision-making using diffusion modeling.* Poster presented at the 2025 Meeting of the Symposium for Individual Differences in Cognition, Denver, CO.

Burgoyne, A. P., Frank, D. J., **Barnett, M. K.**, & Macnamara, B. N. (2024, November). *Which "working memory" are we talking about? Complex span tasks versus n-back.* Poster presented at the 65th Annual Meeting of the Psychonomic Society, New York, NY.

Barnett, M. K., & Macnamara, B. N. (2024, July). *A critical reexamination of the National Study of Learning Mindsets.* Poster presented at the 24th Annual International Society for Intelligence Research Conference, Zürich, Switzerland.

Barnett, M. K., LaFollette, K. J., & Macnamara, B. N. (2023, November). *Distraction and avoidance behaviors in math anxious individuals during testing.* Poster presented at the 64th Annual Meeting of the Psychonomic Society, San Francisco, CA.

Barnett, M. K., LaFollette, K. J., & Macnamara, B. N. (2023, November). *Avoidance behavior and distraction in math anxious individuals during math effort-based decision-making.* Poster presented at the 2023 Meeting of the Symposium for Individual Differences in Cognition, San Francisco, CA.

Barnett, M. K., Mashburn, C. A., Burgoyne, A. P., & Engle, R. W. (2022, November). *Acquired knowledge or fluid ability? An examination of identity, adverse impact, and equity in high-stakes testing.* Poster presented at the 63rd Annual Meeting of the Psychonomic Society, Boston, MA.

Alfonso, J., **Barnett, M. K.**, Blough, S., Brockmeier, S., & Streak, H. (2020, February). *The man in the mirror: Effects of public self-consciousness on social anxiety.* Poster presented at the Georgia Tech College of Sciences EXPLORE Math and Science Fair, Atlanta, GA.

Alfonso, J., **Barnett, M. K.**, Blough, S., Brockmeier, S., & Streak, H. (2017, December). *The man in the mirror: Effects of public self-consciousness on social anxiety.* Poster presented at the Georgia Tech School of Psychology Research Methods Poster Symposium, Atlanta, GA.

EDITORIALS AND MEDIA FEATURES

EDITORIALS

Barnett, M. K. (2024, April 11). *Finding your path in psychological science*. Invited column piece for the Student Notebook of the *Observer* newsletter. Association for Psychological Science. <https://www.psychologicalscience.org/publications/observer/student-notebook-finding-your-path.html>

INTERVIEWS

Purdue cognitive psychology graduate student decodes behaviors behind math anxiety. (2026, April 16). Invited feature for the Purdue College of Health and Human Sciences newsletter. <https://www.purdue.edu/hhs/news/2026/04/purdue-cognitive-psychology-graduate-student-decodes-behaviors-behind-math-anxiety/>

Psychologists are seeking alternative research support amid funding uncertainty. (2026, February 26). Invited feature for the *Observer* newsletter. Association for Psychological Science. <https://www.psychologicalscience.org/publications/observer/alternative-support-funding-uncertainty.html>

RESEARCH EXPERIENCE

Skill, Learning, and Performance Lab

July 2022 – present

Graduate Research Assistant

Case Western Reserve University and Purdue University

PI: Brooke N. Macnamara, PhD

Attention and Working Memory Lab

Lab Manager

Jan 2021 – June 2022

Undergraduate Research Assistant

Aug 2017 – Jan 2021

Georgia Institute of Technology

PI: Randall W. Engle, PhD

Knowledge and Skill Lab

Jan 2020 – Dec 2020

Undergraduate Research Assistant

Georgia Institute of Technology

PI: Phillip L. Ackerman, PhD

TEACHING EXPERIENCE

INSTRUCTOR OF RECORD

Introduction to Cognitive Psychology

Summer 2025, Summer 2026

Purdue University

TEACHING ASSISTANT

The Disordered Brain *Fall 2026*
Purdue University

Modern Methods in Neuroscience *Spring 2026*
Purdue University

Human Expertise and Achievement *Spring 2026*
Purdue University

Introduction to Learning *Fall 2025*
Purdue University

Quantitative Methods in Psychology *Fall 2023*
Case Western Reserve University

GUEST LECTURES

Modern Methods in Neuroscience
Lecturer, Electrophysiology *Mar 10, 2026*
Co-Lecturer, Biopsychology (Impedance Cardiography and Lab Tour) *Apr 14, 2026*
Purdue University

Quantitative Methods in Psychology
Lecturer, Case Study: Math Anxiety & Avoidance *Oct 10, 2023*
Lecturer, Factorial and Repeated Measures Analysis of Variance *Oct 31, 2023*
Case Western Reserve University

PEDAGOGICAL AND LEARNING MANAGEMENT TRAINING

Association for Psychological Science Teaching Institute
Teaching Institute Preconference *May 27 – 28, 2026*

Purdue University Innovative Learning Hands-On Workshops
Smart Accessibility: ADA Compliance with AI Tool Support *Mar 6, 2026*
Describe It, Don't Code It: HTML for Brightspace with AI *Mar 31, 2026*
AI in the Classroom: What's New, What Works, and What to Consider *Apr 22, 2026*

GRANTS, AWARDS, AND HONORS

Psychonomic Society *Nov 2025*
Graduate Travel Award
Recipient, \$750

Institute of Mental Chronometry Graduate Student Travel Grant <i>Recipient, \$1,700</i>	<i>July 2024</i>
Association for Psychological Science Student Grant Competition <i>Recipient, \$500</i>	<i>Apr 2023</i>
Case Western Reserve University, Mather Center for Women Mather Center Professional Development and Research Grant <i>Recipient, \$1000</i>	<i>Oct 2022</i>
Case Western Reserve University, School of Graduate Studies School of Graduate Studies Graduate Student Travel Award <i>Recipient, \$450</i>	<i>Nov 2022</i>
Georgia Institute of Technology, School of History and Sociology Dr. Bernard Bellon Award <i>Recipient, \$1,000</i>	<i>Spring 2021</i>
Georgia Institute of Technology Faculty Honors <i>Recipient</i>	<i>Spring 2019, Summer 2019 Spring 2020 - Spring 2021</i>
Georgia Institute of Technology Dean's List <i>Recipient</i>	<i>Fall 2017 – Fall 2018, Fall 2019</i>
Georgia Institute of Technology, College of Sciences Leddy Scholarship <i>Recipient, \$2,500 per semester</i>	<i>Spring 2018 – Spring 2021</i>
State of Georgia Student Finance Commission Zell Miller Scholarship <i>Recipient, Full In-State Tuition</i>	<i>Summer 2017– Spring 2021</i>
Georgia Institute of Technology, Office of International Education Class of 1983 International Study Abroad Scholarship <i>Recipient, \$3,600</i>	<i>Summer 2019</i>
Georgia Institute of Technology, College of Sciences Science and Math Research Training (SMART) Scholarship <i>Recipient, \$2,000 per semester</i>	<i>Fall 2017 – Spring 2019</i>

PROFESSIONAL SERVICE

Association for Psychological Science Student Caucus Executive Board	<i>May 2025 – present</i>
Association for Psychological Science Student Notebook Editor	<i>May 2025 – present</i>
Association for Psychological Science Workshop Organizer and Moderator For “Navigating the Publishing Pipeline”	<i>May 29, 2026</i>
Psychonomic Society Graduate Student and Postdoc Committee Graduate Student Member	<i>Mar 2024 – Mar 2026</i>
Psychonomic Society Workshop Co-organizer and Moderator For “Keeping Your Options Open: Alternative Non-Academic Career Paths”	<i>Nov 23, 2024; Nov 22, 2025</i>

MEMBERSHIPS

Society for the Teaching of Psychology (APA Division 2) Graduate Student Member	<i>2026 – present</i>
Cognitive Science Society Student Member	<i>2023 – present</i>
Women in Cognitive Science Member	<i>2023 – present</i>
Association for Psychological Science Graduate Student Affiliate	<i>2023 – present</i>
Psychonomic Society Graduate Student Member	<i>2022 – present</i>
Phi Alpha Theta National History Honor Society Alpha Kappa Phi Chapter, Georgia Institute of Technology President	<i>2020 – 2021</i>
Vice President	<i>2019 – 2020</i>

AD HOC REVIEWING

<i>Journal of Learning and Instruction</i>	<i>British Journal of Educational Psychology</i>
<i>Journal of Affective Disorders Reports</i>	<i>Social Psychology of Education</i>

DEPARTMENT AND UNIVERSITY SERVICE

Member, Department of Psychological Sciences Diversity Committee Case Western Reserve University	<i>Aug 2022 – July 2024</i>
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MENTORSHIP

Purdue PSY Graduate Sibling (Big Sib / Little Sib) Mentorship Program

Aug 2026 – present

Mentored Khushi Chanchad, an undergraduate student at Arizona State University, on conducting a literature review and on career development.

Aug 2025 – Dec 2025

Mentored and collaborated with Maliya Roseberry, an undergraduate student and postbaccalaureate research assistant, on creativity data scoring.

June 2025 – Dec 2025

Mentored and collaborated with Elizabeth Williams, an undergraduate student research assistant, on creativity data scoring.

June 2025 – Aug 2025

Mentored Megan Kemp, an undergraduate student at the Georgia Institute of Technology, on majoring in psychology and career development, via the Psychology Association Student-Alumni Mentorship Program.

Sep 2020 – May 2022

RELEVANT SKILLS

Statistical Software: JASP, SPSS, Observation Oriented Modeling, R & RStudio

Programming Languages and Site Management: Python, HTML, WordPress, JavaScript (advanced beginner)

Experiment/Survey Design and Data Management: PsychoPy, jsPsych, E-Prime, Git/GitHub, PsyToolkit, Qualtrics, REDCap

Data Visualization: ArcGIS Pro, ArcGIS Online, Tableau

Learning Management Systems (LMS): Canvas, Brightspace

Teaching and Course Management: Asynchronous e-learning, virtual teaching tools and engagement platforms (Google Classroom, Kahoot, Canva, Quizlet, Zoom), curriculum development, ADA accessibility, LMS/AI integration