

MARIEL K. BARNETT

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<https://hhs.purdue.edu/skill-learning-and-performance-lab/>

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 upon acceptance; [n/a] = no empirical 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). Recalculating avoidance: 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]

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.

CONFERENCE TALKS

PRESENTATIONS

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.

DATA BLITZ PRESENTATIONS AND LIGHTNING TALKS

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

POSTER PRESENTATIONS

Barnett, M. K., LaFollette, K. J., & Macnamara, B. N. (Accepted). *Mechanisms of avoidance: Predictors of math decision-making using diffusion modeling*. Poster to be 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.
- 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.
- 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.
- 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.
- 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

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>

RESEARCH EXPERIENCE

Skill, Learning, and Performance Lab

July 2022 – present

Graduate Research Assistant

Purdue University and Case Western Reserve 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

Introduction to Learning

Aug 2025 – present

Instructor

Purdue University

Introduction to Cognitive Psychology

July 2025 – Aug 2025

Instructor

Purdue University

Quantitative Methods in Psychology

Aug 2023 – Dec 2023

Teaching Assistant

Invited Lecturer, Case Study: Math Anxiety & Avoidance

Invited Lecturer, Factorial and Repeated Measures Analysis of Variance

Case Western Reserve University

GRANTS, AWARDS, AND HONORS

Psychonomic Society

Nov 2025

Graduate Travel Award

Recipient, \$750

Institute of Mental Chronometry
Graduate Student Travel Grant

July 2024

Recipient, \$1,700

Association for Psychological Science
Student Grant Competition

Apr 2023

Recipient, \$500

Case Western Reserve University, Mather Center for Women
Mather Center Professional Development and Research Grant

Oct 2022

Recipient, \$1000

Case Western Reserve University, School of Graduate Studies
School of Graduate Studies Graduate Student Travel Award

Nov 2022

Recipient, \$450

Georgia Institute of Technology, School of History and Sociology
Dr. Bernard Bellon Award

Spring 2021

Recipient, \$1,000

Georgia Institute of Technology
Faculty Honors

Spring 2019, Summer 2019

Spring 2020 - Spring 2021

Recipient

Georgia Institute of Technology
Dean's List

Fall 2017 – Fall 2018, Fall 2019

Recipient

Georgia Institute of Technology, College of Sciences
Leddy Scholarship

Spring 2018 – Spring 2021

Recipient, \$2,500 per semester

State of Georgia Student Finance Commission
Zell Miller Scholarship

Summer 2017– Spring 2021

Recipient, Full In-State Tuition

Georgia Institute of Technology, Office of International Education
Class of 1983 International Study Abroad Scholarship

Summer 2019

Recipient, \$3,600

Georgia Institute of Technology, College of Sciences
Science and Math Research Training (SMART) Scholarship

Fall 2017 – Spring 2019

Recipient, \$2,000 per semester

PROFESSIONAL SERVICE

Association for Psychological Science Student Caucus Executive Board *May 2025 – present*
Student Notebook Editor, APS Observer

Psychonomic Society Graduate Student and Postdoc Committee *Mar 2024 – present*
Graduate Student Member

MEMBERSHIPS

Cognitive Science Society *2023 – present*
Student Member

Women in Cognitive Science *2023 – present*
Member

Association for Psychological Science *2023 – present*
Graduate Student Affiliate

Psychonomic Society *2022 – present*
Graduate Student Member

Phi Alpha Theta National History Honor Society *2019 – 2021*
Georgia Institute of Technology
Alpha Kappa Phi Chapter President, Vice President, Member

AD HOC REVIEWER POSITIONS

Journal of Learning and Instruction *British Journal of Educational Psychology*

Journal of Affective Disorders Reports *Social Psychology of Education*

DEPARTMENT AND UNIVERSITY SERVICE

Member, Department of Psychological Sciences Diversity Committee *Aug 2022 – July 2024*
Case Western Reserve University

Mentor, Psychology Association Mentorship Program *Sep 2020 – May 2022*
Georgia Institute of Technology
Advisee: Megan Kemp, Psychology Undergraduate Student

RELEVANT SKILLS

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

Programming Languages and Site Management: Python, HTML, WordPress

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

Data Visualization: ArcGIS Pro, ArcGIS Online, Tableau

Teaching and Course Management: Canvas, Brightspace, online and asynchronous learning formats