

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

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.

POSTER PRESENTATIONS

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 1st Annual 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
Undergraduate Research Assistant
Georgia Institute of Technology
PI: Randall W. Engle, PhD

Jan 2021 – June 2022
Aug 2017 – Jan 2021

Knowledge and Skill Lab
Undergraduate Research Assistant
Georgia Institute of Technology
PI: Phillip L. Ackerman, PhD

Jan 2020 – Dec 2020

TEACHING EXPERIENCE

Introduction to Cognitive Psychology
Instructor
Purdue University

July 2025 – August 2025

Quantitative Methods in Psychology
Teaching Assistant
Invited Lecturer, Case Study: Math Anxiety & Avoidance
Invited Lecturer, Factorial and Repeated Measures Analysis of Variance
Case Western Reserve University

Aug 2023 – Dec 2023

GRANTS, AWARDS, AND HONORS

Institute of Mental Chronometry
Graduate Student Travel Grant
Recipient, \$1,700

July 2024

Association for Psychological Science
Student Grant Competition
Recipient, \$500

Apr 2023

Case Western Reserve University, Mather Center for Women
Mather Center Professional Development and Research Grant
Recipient, \$1000

Oct 2022

Case Western Reserve University, School of Graduate Studies
School of Graduate Studies Graduate Student Travel Award
Recipient, \$450

Nov 2022

Georgia Institute of Technology, School of History and Sociology
Dr. Bernard Bellon Award
Recipient, \$1,000

Spring 2021

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
Student Notebook Editor, APS Observer

May 2025 – present

Psychonomic Society Graduate Student and Postdoc Committee
Graduate Student Member

Mar 2024 – present

MEMBERSHIPS

Cognitive Science Society
Student Member

2023 – present

Women in Cognitive Science
Member

2023 – present

Association for Psychological Science
Graduate Student Affiliate

2023 – present

Psychonomic Society
Graduate Student Member

2022 – present

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

2019 – 2021

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
Case Western Reserve University

Aug 2022 – July 2024

Mentor, Psychology Association Mentorship Program
Georgia Institute of Technology

Sep 2020 – May 2022

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, jsPsych, E-Prime, Git/GitHub, PsyToolkit, Qualtrics, REDCap

Data Visualization: ArcGIS Pro, ArcGIS Online, Tableau