

# 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., Psychology

Specialization: Cognitive Psychology

Advisor: Brooke N. Macnamara, PhD

### **Case Western Reserve University – Cleveland, OH**

*July 2022 – Aug 2024*

M.A., Psychology

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

Specialization: Cognitive Psychology

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

- Learning, skill acquisition, ability, and expertise
- Performance in high-stakes settings
- Academic performance and achievement

## PUBLICATIONS

### *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>

**\*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*. Advance online publication. <https://doi.org/10.1037/rev0000439>

## MANUSCRIPTS UNDER REVIEW

**Barnett, M. K.**, LaFollette, K. J., & Macnamara, B. N. (Under Review). Recalculating avoidance: Math anxiety predicts resistance to solving challenging math problems.

## CONFERENCES AND 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 65<sup>th</sup> Annual Meeting of the Psychonomic Society, New York, NY.

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

**Barnett, M. K.**, LaFollette, K. J., & Macnamara, B. N. (July 2024). *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.**, LaFollette, K. J., & Macnamara, B. N. (2023, November). *Distraction and avoidance behaviors in math anxious individuals during testing*. Poster presented at the 64<sup>th</sup> 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 1<sup>st</sup> 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 63<sup>rd</sup> 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 & PUBLIC COMMENTARIES

**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.

## RESEARCH EXPERIENCE

### **Skill, Learning, and Performance Lab**

*Graduate Research Assistant*

Case Western Reserve University, Purdue University

PI: Brooke N. Macnamara, PhD

*July 2022 – present*

### **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*

*Jan 2020 – Dec 2020*

Georgia Institute of Technology  
PI: Phillip L. Ackerman, PhD

## TEACHING EXPERIENCE

**Undergraduate Quantitative Methods in Psychology** *Aug 2023 – Dec 2023*  
*Teaching Assistant*  
*Invited Lecture, Case Study: Math Anxiety & Avoidance*  
*Invited Lecture, Factorial and Repeated Measures Analysis of Variance*  
Case Western Reserve University  
Main lecture instructor: Kyle J. LaFollette

## GRANTS, AWARDS, AND HONORS

Institute of Mental Chronometry Graduate Student Travel Grant *July 2024*  
*Recipient, \$1,700*

Association for Psychological Science Student Grant Competition *Apr 2023*  
*Recipient, \$500*

Mather Center Professional Development and Research Grant *Oct 2022*  
*Recipient, \$1000*  
Case Western Reserve University, Flora Stone Mather Center for Women

School of Graduate Studies Graduate Student Travel Award *Nov 2022*  
*Recipient, \$450*  
Case Western Reserve University, School of Graduate Studies

Dr. Bernard Bellon Award *Spring 2021*  
*Recipient, \$1,000*  
Georgia Institute of Technology, School of History and Sociology

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

Leddy Scholarship *Spring 2018 – Spring 2021*  
*Recipient, \$2,500 per semester*  
Georgia Institute of Technology, College of Sciences

Zell Miller Scholarship *Summer 2017– Spring 2021*

*Recipient, Full In-State Tuition*  
State of Georgia Student Finance Commission

Class of 1983 International Study Abroad Scholarship *Summer 2019*  
*Recipient, \$3,600*  
Georgia Institute of Technology, Office of International Education

Science and Math Research Training (SMART) Scholarship *Fall 2017 – Spring 2019*  
*Recipient, \$2,000 per semester*  
Georgia Institute of Technology, College of Sciences

## PROFESSIONAL SERVICE

Psychonomic Society Inaugural 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*  
*Student Member*

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

## REVIEWER POSITIONS

Post hoc reviewer, *Journal of Learning and Instruction* *Aug 2024*

Post hoc reviewer, *Journal of Affective Disorders Reports* *Dec 2023*

Post hoc reviewer, *British Journal of Educational Psychology* *July 2023, Aug 2024*

Post hoc reviewer, *Social Psychology of Education* *May 2023*

## DEPARTMENT AND UNIVERSITY SERVICE

Department of Psychological Sciences Diversity Committee  
*Graduate Student Member*  
Case Western Reserve University

*Aug 2022 – July 2024*

Psychology Association Mentorship Program  
*Upperclassman and Alumna Mentor*  
Advisee: Megan Kemp, Psychology Undergraduate Student

*Sep 2020 – May 2022*

## RELEVANT SKILLS

JASP, SPSS, Observation Oriented Modeling, Python, PsychoPy, jsPsych, RStudio, E-Prime, Qualtrics, REDCap, ArcGIS Pro, ArcGIS Online, Tableau