

Cody A. Mashburn

CONTACT

Georgia Institute of Technology
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EDUCATION

Georgia Institute of Technology - Atlanta, GA

M.S., Cognition and Brain Science
Advisor: Dr. Randall W. Engle

In progress
(expected 2021)

Young Harris College - Young Harris, GA

B.S., Psychology, *magna cum laude*
Minor in Philosophy
Advisor: Dr. Amy L. Boggan

2017

RESEARCH INTERESTS

- Individual differences in executive attention, working memory, and fluid intelligence
- Processing speed and its relation to higher order cognition
- Psychometrics and test development

MANUSCRIPTS (in reverse chronological order)

Published

Martin, J. D., **Mashburn, C. A.**, & Engle, R. W. (in press). Improving the validity of the Armed Services Vocational Aptitude Battery with measures of attention control. *Journal of Applied Research in Memory and Cognition*.

Draheim, C., Tsukahara, J. S., Martin, J. D., **Mashburn, C. A.**, & Engle, R. W. (in press). A toolbox approach to improving the measurement of attention control. *Journal of Experimental Psychology: General*.

Mashburn, C. A., Tsukahara, J. S., & Engle, R. W. (in press). Individual differences in attention control: Implications for the relationship between working memory capacity and fluid intelligence. In R. H. Logie, V. Camos, & N. Cowan (Eds.), *Working memory: The state of the science*. Oxford University Press.

Draheim, C., **Mashburn, C. A.**, Martin, J. D., & Engle, R. W. (2019). Reaction time in differential and developmental research: A review and commentary on problems and alternatives. *Psychological Bulletin*, 145(5), 508-535. <https://doi.org/10.1037/bul0000192>

Mutter, S. A., Holder, J. M., **Mashburn, C. A.**, & Luna, C. M. (2019). Aging and the role of attention in associative learning. *Psychology and Aging*, 34(2), 215-227. <https://doi.org/10.1037/pag0000277>

Submitted and in preparation

- Martin, J. D., Tsukahara, J. S., **Mashburn, C. A.**, Draheim, C., Shipstead, Z., Vogel, E. K., & Engle, R. W. (2020). *The visual arrays task: Visual storage capacity or attention control?* [Manuscript submitted for publication].
- Burgoyne, A. P., Martin, J. D., **Mashburn, C. A.**, & Engle, R. W. (in prep). Working memory measures for adults. In J. W. Schwieter & Z. Wen (Eds.), *The Cambridge handbook of working memory and language*. Cambridge University Press.
- Burgoyne, A. P., **Mashburn, C. A.**, Tsukahara, & Engle, R. W. (in prep). The relationship between rationality and intelligence: A latent variable approach.

CONFERENCE PRESENTATIONS (in reverse chronological order)

- Mashburn, C. A.**, Martin, J. D., & Engle, R. W. (2019, November). *Attention control improves the ASVAB's prediction of multitasking*. Poster presented at the 60th annual meeting of the Psychonomic Society, Montreal, Quebec, Canada.
- Draheim, C., Tsukahara, J. S., Martin, J. D. **Mashburn, C. A.**, Engle, R. W. (2019, November). *Attention control is a unitary concept when measured with accuracy-based tasks*. Poster presented at the 60th annual meeting of the Psychonomic Society, Montreal, Quebec, Canada.
- Draheim, C., Martin, J. D., Tsukahara, J. S., **Mashburn, C. A.**, & Engle, R. W. (2018, November). *Measurement of attention control*. Talk presented at the 59th annual meeting of the Psychonomic Society, New Orleans, LA.
- Brooks, R. Boggan, A. L., & **Mashburn, C. A.** (2018, November). *Positive valence versus emotional congruence in memory performance: Which effects matter when?* Poster presented at the 59th annual meeting of the Psychonomic Society, New Orleans, LA.
- Draheim, C., **Mashburn, C. A.**, & Engle, R. W. (2018, November). *Reaction times do not reliably measure individual differences in cognition: The problem and solutions*. Poster presented at the 59th annual meeting of the Psychonomic Society, New Orleans, LA.
- Mashburn, C. A.**, Mutter, S. A., Luna, C. M., & Lawrence, K. (2017, November). *Learned predictiveness and rapid attentional capture in younger and older adults*. Poster presented at the 58th Psychonomic Society Conference, Vancouver, British Columbia, Canada.
- Mashburn, C. A.**, & Boggan, A. L. (2017, July). *The impact of expertise-related cross-modal associations on the vividness of auditory imagery*. Poster presented at the biennial meeting of the Society for Music Perception and Cognition, San Diego, CA.
- Lawrence, K. N., Luna, C. M., **Mashburn, C. A.**, & Cundiff, M. (2017, March). *Predictive learning of stimuli using a dot probe task*. Poster presented at the Western Kentucky University Student Research Conference, Bowling Green, KY.
- Mashburn, C. A.**, & Boggan, A. L. (2017, April). *The impact of expertise-related cross-modal associations on the vividness of auditory imagery*. Oral presentation at the Georgia Undergraduate Research in Psychology Conference, Kennesaw, GA.

- Mashburn, C. A.,** & Mutter, S. A. (2016, August). *Predictive learning biases selective attention orientation*. Poster presented at Western Kentucky University's Research Experience for Undergraduates Conference, Bowling Green, KY.
- Mashburn, C. A.,** Fortner, J. D., Ramirez, R. O., Weber, J. L., & Boggan, A. L. (2016, April). *Bound for life or for the moment?: Attention and feature binding in short-term visual memory*. Poster presented at the Georgia Undergraduate Research in Psychology Conference, Kennesaw, GA.
- Mashburn, C. A.,** & Boggan, A. L. (2016, March). *The effects of music sight-reading expertise on human perception and performance*. Oral presentation at Young Harris College's Undergraduate Research Conference, Young Harris, GA.
- Krier, A. K., Hendrix, E. K., Wood, C., **Mashburn, C. A.,** & Boggan, A. L. (2015, April). *Sleep and working memory*. Poster presented at the Georgia Undergraduate Research in Psychology Conference, Kennesaw, GA.
- Barnes, K. G., Burrell, J. M., Johnson, C. E., Taber, H. J., **Mashburn, C. A.,** Abbott, N. L., & Boggan, A. L. (2014, April). *The effects of background music and personality factors on working memory*. Poster presented at the Georgia Undergraduate Research in Psychology Conference, Kennesaw, GA.

RESEARCH EXPERIENCE

Graduate Research Assistant, Attention and Working Memory Lab (Supervisor: Dr. Randall W. Engle), Georgia Institute of Technology, Atlanta, GA (August, 2018-Present)

Research Assistant, Attention and Working Memory Lab (Supervisor: Dr. Randall W. Engle), Georgia Institute of Technology, Atlanta, GA (August, 2017-August, 2018)

NSF Research Experience for Undergraduates Intern, Cognition Lab (Supervisor: Dr. Sharon A. Mutter), Western Kentucky University, Bowling Green, KY (May-August, 2016)

Undergraduate Researcher, Department of Psychology (Supervisor: Dr. Amy L. Boggan), Young Harris College, Young Harris, GA (January, 2014-May, 2017)

TEACHING EXPERIENCE

Lab Instructor, Research Methods (Main lecture instructor: Dr. Meghan J. Babcock), Georgia Institute of Technology, Atlanta, GA (Fall, 2020)

Teaching Assistant, Senior Empirical Research Seminar (Instructor: Dr. Amy L. Boggan), Young Harris College, Young Harris, GA (Spring, 2017)

Writing Tutor, Rhetorica Center for Writing and Speaking at Young Harris College, Young Harris, GA (August, 2014-May, 2017)

GRADUATE COURSEWORK

General

1. Cognitive Psychology
2. Responsible Conduct of Research
3. Human Neuroanatomy
4. Psychological Testing
5. fMRI in Human Cognitive Neuroscience (seminar)
6. Human Problem Solving (seminar)

Quantitative/Methods

1. Research Methods and Design
2. Statistical Analysis I (ANOVA)
3. Statistical Analysis II (Correlation & Regression)
4. Multivariate Statistics
5. Structural Equation Modeling

PROFESSIONAL AFFILIATIONS

Psychonomic Society (Student member, September 2018-Present)

Society for Music Perception and Cognition (Student member, March 2017-Present)

AWARDS & HONORS

Georgia Tech School of Psychology Outstanding Student Paper Award (Draheim, Mashburn, Martin, & Engle, 2019)

Young Harris College Honors Scholar (2017)

Outstanding Oral Presentation Award at the Georgia Undergraduate Research in Psychology Conference (2017)

Writing Tutor of the Year (2015-2016)

William Byron King '35 Award in English (2014)