

Matthew K. Robison
Curriculum vitae

950 S. McAllister Ave.
Tempe, AZ 85287
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PROFESSIONAL EXPERIENCE:

Postdoctoral Research Associate 2018 - Present
Memory and Attention Control Lab
Arizona State University

EDUCATION:

University of Oregon 2018
Ph.D. in Psychology
University of Oregon 2014
M.S. in Psychology
University of Notre Dame 2013
B.B.A. *cum laude*
Entrepreneurship and Psychology

PEER-REVIEWED PUBLICATIONS:

Unsworth, N., Miller, A. L., & **Robison, M. K.** (In press). Individual differences in encoding strategies and free recall dynamics. *The Quarterly Journal of Experimental Psychology*.

Unsworth, N., **Robison, M. K.**, & Miller, A. L. (In press). Individual differences in baseline oculometrics: Examining variation in baseline pupil diameter, spontaneous eye blink rate, and fixation stability. *Cognitive, Affective, & Behavioral Neuroscience*.

Unsworth, N., & **Robison, M. K.** (In press). Working memory capacity and sustained attention: A cognitive-energetic framework. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.

Robison, M. K., Miller, A. L., & Unsworth, N. (2019). Examining the effects of probe frequency, response options, and framing within the thought-probe method. *Behavior Research Methods*, *51*, 398 – 408.

Robison, M. K., & Unsworth, N. (2019). Pupillometry tracks fluctuations in working memory performance. *Attention, Perception, & Psychophysics*, *81*, 407 – 419.

- Unsworth, N., & **Robison, M. K.** (2018). Tracking mind-wandering and arousal state with pupillometry. *Cognitive, Affective, & Behavioral Neuroscience, 18*, 638 – 664.
- Unsworth, N., **Robison, M. K.**, & Miller, A. L. (2018). Pupillary correlates of fluctuations in sustained attention. *Journal of Cognitive Neuroscience, 30*, 1241 – 1253.
- Adam, K. C. S., **Robison, M. K.**, & Vogel, E. K. (2018). Contralateral delay activity tracks fluctuations in working memory performance. *Journal of Cognitive Neuroscience, 30*, 1229 – 1240.
- Robison, M. K.**, Miller, A. L., & Unsworth, N. (2018). Individual differences in working memory capacity and filtering. *Journal of Experimental Psychology: Human Perception and Performance, 44*, 1038 – 1053.
- Unsworth, N., & **Robison, M. K.** (2018). Tracking working memory maintenance with pupillometry. *Attention, Perception, & Psychophysics, 80*, 461 – 484.
- Robison, M. K.**, & Unsworth, N. (2018). Cognitive and contextual correlates of spontaneous and deliberate mind-wandering. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 44*, 85 – 98.
- Unsworth, N., & **Robison, M. K.** (2017). The importance of arousal for variation in working memory capacity and attention control: A latent variable pupillometry study. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 43*, 1962 – 1987.
- Robison, M. K.**, & Unsworth, N. (2017). Individual differences in working memory capacity predict learned control over attentional capture. *Journal of Experimental Psychology: Human Perception and Performance, 43*, 1912 – 1924.
- Unsworth, N. & **Robison, M. K.** (2017). A locus coeruleus-norepinephrine account of individual differences in working memory capacity and attention control. *Psychonomic Bulletin & Review, 24*, 1282 – 1311.
- Robison, M. K.**, & Unsworth, N. (2017). Variation in the use of cues to guide attention in visual working memory. *Attention, Perception, & Psychophysics, 79*, 1652 – 1665.
- Robison, M. K.**, McGuirk, W. P., & Unsworth, N. (2017). No evidence for enhancements to visual working memory with transcranial direct current stimulation to prefrontal or posterior parietal cortices. *Behavioral Neuroscience, 131*, 277 – 288.
- Robison, M. K.**, & Unsworth, N. (2017). Working memory capacity and mind-wandering during low-demand cognitive tasks. *Consciousness and Cognition, 52*, 47 – 54.

- Unsworth, N., & **Robison, M. K.** (2017). Pupillary correlates of covert shifts of attention during working memory maintenance. *Attention, Perception, & Psychophysics*, 79, 782 – 795.
- Robison, M. K.**, & Unsworth, N. (2017). Individual differences in working memory capacity and resistance to belief bias in syllogistic reasoning. *The Quarterly Journal of Experimental Psychology*, 70, 1471 – 1484.
- Robison, M. K.**, Gath, K. I., & Unsworth, N. (2017). The neurotic wandering mind: An individual differences investigation of neuroticism, mind-wandering, and executive control. *The Quarterly Journal of Experimental Psychology*, 70, 649 – 663.
- Robison, M. K.**, & Unsworth, N. (2017). Working memory capacity, strategic allocation of study time, and value-directed remembering. *Journal of Memory and Language*, 93, 231 – 244.
- Unsworth, N., & **Robison, M. K.** (2016). Pupillary correlates of lapses of sustained attention. *Cognitive, Affective, & Behavioral Neuroscience*, 16, 601 – 615.
- Robison, M. K.**, & Unsworth, N. (2016). Do participants differ in their cognitive abilities, task motivation, or personality characteristics as a function of time of participation? *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 42, 897 – 914.
- Unsworth, N., & **Robison, M. K.** (2016). The influence of lapses of attention on working memory capacity. *Memory & Cognition*, 44, 188 – 196.
- Robison, M. K.**, & Unsworth, N. (2015). Working memory capacity offers resistance to mind-wandering and external distraction in a context-dependent manner. *Applied Cognitive Psychology*, 29, 680 – 690.
- Unsworth, N. & **Robison, M. K.** (2015). Individual differences in the allocation of attention to items in working memory: Evidence from pupillometry. *Psychonomic Bulletin & Review*, 22, 757 – 765.
- Gibson, B. S., Gondoli, D. M., Johnson, A. C., & **Robison, M. K.** (2013). Recall initiation strategies must be controlled in training studies that use immediate free recall tasks to measure the components of working memory capacity across time. *Child Neuropsychology*, 20, 536-556.

MANUSCRIPTS UNDER REVIEW:

- Robison, M. K.**, Miller, A. L., & Unsworth, N. (2019). A multifaceted approach to understanding individual differences in mind-wandering. Submitted to *Cognition*.

Unsworth, N., Miller, A. L., & **Robison, M. K.** (2019). Variation in working memory capacity and error monitoring: Examining the influence of task engagement. Submitted to *Journal of Experimental Psychology: Human Perception and Performance*.

MANUSCRIPTS IN PREPARATION:

Robison, M. K., Miller, A. L., & Unsworth, N. (2018). *Using continuous behavioral analysis to catch and prevent attentional lapses*.

Robison, M. K., Brewer, G. A., Redick, T. S., & Unsworth, N. (2018). *Sample size and the stability of correlations in latent variable analyses of cognitive abilities*.

RESEARCH EXPERIENCE:

Memory, Attention, and Individual Differences Laboratory University of Oregon Graduate Student Lab Manager	2013 – 2018
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Attention and Attention Disorders Laboratory University of Notre Dame Summer Research Independent Project Senior Honors Thesis	2012-13
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Sleep, Stress and Memory Laboratory University of Notre Dame Undergraduate Research Assistant	2012
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eMotion and eCognition Laboratory University of Notre Dame Undergraduate Research Assistant	2011
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PRESENTATIONS:

Brewer, G. A., **Robison, M. K.**, Ellis, D. M., & Karoly, P. (2019, March). Acute pain disrupts sustained attention. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Robison, M. K., & Unsworth, N. (2018, November). Pupillometry tracks fluctuations in working memory performance. Poster presented at the 59th Annual Meeting of the Psychonomic Society, New Orleans, LA.

Robison, M. K., & Unsworth, N. (2017, November). Individual differences in working memory capacity and filtering. Poster presented at the 58th Annual Meeting of the

Psychonomic Society, Vancouver, BC, Canada.

Robison, M. K. (2017, September). Working memory capacity: Multiple mechanisms of control. Presentation given to the Cognition, Brain, and Behavior group at the University of Notre Dame.

Robison, M. K. (2016, October). Cognition, disposition, and context: A multifaceted approach to mind-wandering. Presentation of Preliminary Exams at the University of Oregon.

Robison, M. K., Gath, K. I., & Unsworth, N. (2015, November). The neurotic wandering mind: An individual differences investigation of neuroticism, mind-wandering, and executive control. Poster presented at the 56th Annual Meeting of the Psychonomic Society, Chicago, IL.

Robison, M.K. (2014, October). Mind-wandering and distraction in silent and noisy studying environments. Presentation of a First-Year Project at the University of Oregon.

Robison, M.K. & Gibson, B.S. (2013, May). The role of recall initiation strategies in the measurement of primary and secondary memory in the context of a working memory training program. Poster and oral presentation at the Department of Psychology Undergraduate Research Symposium, University of Notre Dame.

HONORS AND AWARDS:

General University Scholarship - \$3,000 University of Oregon	2017
Clarence and Lucille Dunbar Scholarship - \$2,000 College of Arts and Sciences, University of Oregon	2016
Graduate Travel Award - \$1,000 Psychonomic Society	2015
Clarence and Lucille Dunbar Scholarship - \$2,500 College of Arts and Sciences, University of Oregon	2014

RESEARCH FUNDING:

“Developing a Working Memory Training Program that Targets the Secondary Component of Working Memory” - \$4,500
Undergraduate Research Opportunity Program
Institute for Scholarship in the Liberal Arts, University of Notre Dame

PROFESSIONAL SERVICE:

Ad Hoc Reviewer: *Acta Psychologica*, *Applied Cognitive Psychology*; *Behavior Research Methods*; *Discourse Processes*; *Frontiers in Psychology*; *Heliyon*; *Journal of Applied Research in Memory and Cognition*; *Journal of Educational Psychology*; *Journal of Experimental Psychology: Learning, Memory, and Cognition*; *Learning and Individual Differences*; *Memory*; *Neuropsychologia*; *Perspectives in Psychological Science*; *PLoS ONE*; *Psychonomic Bulletin & Review*; *Research in Developmental Disabilities*

Honors Thesis Advising:

Christian Arenas	2014
Beth Ngan	2014
Katherine Gath	2015
Kyung Hoon Jeong	2015
Dylan Vas	2017

Cognitive Neuroscience Faculty Search Committee – 2016-17
 Graduate Student Representative

TEACHING EXPERIENCE:

<i>Course</i>	<i>Role</i>	<i>Year</i>
Human Performance	Instructor	2014
Learning and Memory	Instructor	2015
Learning and Memory	Teaching Assistant	2013, 2014, 2015
Thinking	Teaching Assistant	2014
Brain Mechanisms of Behavior	Teaching Assistant	2015
Cognition	Teaching Assistant	2015, 2016
Perception	Teaching Assistant	2016

UNDERGRADUATE HONORS THESIS:

“The role of recall strategies in the measurement of primary and secondary memory in the context of a working memory training program”
 Faculty Mentor: Dr. Bradley Gibson

REFERENCES:

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