

**Matthew K. Robison**  
*Curriculum vitae*

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matthew.robison@uta.edu

PROFESSIONAL EXPERIENCE:

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|---|----------------|
| Assistant Professor<br>Department of Psychology<br>University of Texas at Arlington   | 2020 - present |
| Postdoctoral Research Associate<br>Memory and Attention Control Lab<br>Department of Psychology<br>Arizona State University | 2018 - 2020    |

EDUCATION:

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| University of Oregon<br>Ph.D. in Psychology  | 2018 |
| University of Oregon<br>M.S. in Psychology   | 2014 |
| University of Notre Dame<br>B.B.A. <i>cum laude</i><br>Entrepreneurship and Psychology | 2013 |

PEER-REVIEWED PUBLICATIONS:

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*Google Scholar metrics:*

- Unsworth, N., Miller, A. L., & **Robison, M. K.** (In press). Are individual differences in attention control related to working memory capacity? A latent variable mega analysis. *Journal of Experimental Psychology: General*.
- Unsworth, N., **Robison, M. K.**, & Miller, A. L. (In press). Individual differences in lapses of attention: A latent variable analysis. *Journal of Experimental Psychology: General*.
- Unsworth, N., Miller, A. L., & **Robison, M. K.** (In press). Is working memory capacity related to baseline pupil diameter? *Psychonomic Bulletin & Review*.
- Robison, M. K.**, & Brewer, G. A. (2020). Individual differences in working memory capacity and the regulation of arousal. *Attention, Perception, & Psychophysics*, 82, 3273 – 3290.

- Robison, M. K.**, Miller, A. L., & Unsworth, N. (2020). A multi-faceted approach to understanding individual differences in mind-wandering. *Cognition*, *198*, 104078.
- Unsworth, N., Miller, A. L., & **Robison, M. K.** (2020). Individual differences in lapses of sustained attention: Oculometric indicators of intrinsic alertness and preparatory control. *Journal of Experimental Psychology: Human Perception and Performance*, *46*, 569 – 592.
- Chowdry, M. S. N., Dutta, N., **Robison, M. K.**, Blais, C., Brewer, G. A., & Bliss, D. W. (2020). A generalized model to estimated reaction time corresponding to visual stimulus using single-trial EEG. *42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society*. Montréal, QC, Canada. \*Peer-reviewed conference paper.
- Unsworth, N., & **Robison, M. K.** (2020). Working memory capacity and sustained attention: A cognitive-energetic perspective. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *46*, 77 – 103.
- Unsworth, N., **Robison, M. K.**, & Miller, A. L. (2019). Individual differences in baseline oculometrics: Examining variation in baseline pupil diameter, spontaneous eye blink rate, and fixation stability. *Cognitive, Affective, & Behavioral Neuroscience*, *19*, 1074 – 1093.
- Unsworth, N., Miller, A. L., & **Robison, M. K.** (2019). Individual differences in encoding strategies and free recall dynamics. *The Quarterly Journal of Experimental Psychology*, *72*, 2495 – 2508.
- 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.

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MANUSCRIPTS UNDER REVIEW:

**Robison, M. K., Unsworth, N., & Brewer, G. A.** (2020). Examining the effects of goal-setting, feedback, and incentives on sustained attention. Submitted to *Journal of Experimental Psychology: Human Perception and Performance*.

**Robison, M. K., Ellis, D. M., Pitaes, M. M., Karoly, P., & Brewer, G. A.** (2020). Acute pain impairs sustained attention. Submitted to *Journal of Experimental Psychology: Applied*.

Ellis, D. M., **Robison, M. K., Karoly, P., & Brewer, G. A.** (2020). Acute pain differentially impacts problem solving in an analogue setting. Submitted to *Pain*.

Unsworth, N., **Robison, M. K., & Miller, A. L.** (2020). On the relation between working memory capacity and the antisaccade task. Submitted to *Journal of Experimental Psychology: Learning, Memory, and Cognition*.

## GRANT FUNDING:

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- 2019 *Project title: "LC-NE Regulation and Attention"*  
*Funding agency: NIH Ruth L. Kirschstein NRSA Individual Postdoctoral Fellowship*  
*Status: Not funded*  
*Amount: \$187,662*
- 2019 *Project title: "The Impact of Physical Fatigue on the Cognitive Health of Student Athletes"*  
*Funding agency: Global Sport Institute at Arizona State University*  
*Status: Not funded*  
*Amount: \$20,000*
- 2018 *Project title: "Low-cost eye-tracking equipment for psychological research"*  
*Funding agency: Cialdini Leap Forward Fund (Internal Award)*  
*Status: Awarded*  
*Amount: \$7,500*
- 2012 *Project title: "Developing a Working Memory Training Program that Targets the Secondary Component of Working Memory"*  
*Funding agency: Undergraduate Research Opportunity Program*  
*Status: Awarded*  
*Amount: \$4,500*

## TEACHING EXPERIENCE:

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<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

## PRESENTATIONS:

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- 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 59<sup>th</sup> 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 58<sup>th</sup> 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 56<sup>th</sup> 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:

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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

#### PROFESSIONAL SERVICE:

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Ad Hoc Reviewer: *Acta Psychologica; Applied Cognitive Psychology; Attention, Perception, and Psychophysics; Behavior Research Methods; Biological Psychology; Cognition; Cortex; Discourse Processes; Frontiers in Psychology; Heliyon; Journal of Applied Research in Memory*

*and Cognition; Journal of Educational Psychology; Journal of Experimental Psychology: Applied; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of Vision; Language and Linguistics Compass; Learning and Individual Differences; Memory; Memory & Cognition; Neuropsychologia; Perspectives in Psychological Science; PLoS ONE; Psychonomic Bulletin & Review; Research in Developmental Disabilities; The Quarterly Journal of Experimental Psychology; Scientific Reports*

Honors Thesis Advising:

Christian Arenas	2014
Beth Ngan	2014
Katherine Gath	2015
Kyung Hoon Jeong	2015
Dylan Vas	2017
Deanna Strayer	2019
Faith Brown	2020

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

UNDERGRADUATE RESEARCH EXPERIENCE:

Attention and Attention Disorders Laboratory University of Notre Dame Summer Research Independent Project Senior Honors Thesis	2012-13
Sleep, Stress and Memory Laboratory University of Notre Dame Undergraduate Research Assistant	2012
eMotion and eCognition Laboratory University of Notre Dame Undergraduate Research Assistant	2011

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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Dr. Nash Unsworth  
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