

# Kristina Krasich

Duke University  
Center for Cognitive Neuroscience  
308 Research Drive Room C03E,  
Durham, NC 27708  
kk144@duke.edu  
sites.duke.edu/kkrasich

## Education

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- May 2019 University of Notre Dame, Notre Dame, IN  
Ph.D. in Psychology (2019), M.A. in Psychology (2016)
- May 2011 Duke University, Durham, NC  
B.A. in Psychology, B.A. in English

## Appointments

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- 2019 - Postdoctoral Associate, Center for Cognitive Neuroscience, Duke University
- 2014 - 2019 Ph.D. Candidate, Department of Psychology, University of Notre Dame
- 2012 - 2014 Lab Manager, Department of Psychiatry and Behavioral Sciences, Duke University

## External Funding

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- 2020 - 2022 **Krasich, K. (PI)**. *Delineating the unique impact of attention and conscious awareness on action and responsibility for action*. Worldwide Competition in the Neurophilosophy of Free Will sub-award (\$37,500). John Templeton Foundation; Fetzer Institute; Chapman University.
- 2017 - 2019 **Krasich, K. (PI)**, Murray, S. (PI), Blakey, R. (PI). *Stay on target: Mind wandering, prospective memory, & responsibility*. Summer Seminars in Neuroscience and Philosophy sub-award. (\$30,450). Templeton World Charity Foundation; Duke University.

## Awards, honors, and distinctions

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- 2017, 2018 Notebaert Professional Development Fund, University of Notre Dame
- 2017, 2018 GSU Conference Presentation Grant, University of Notre Dame
- 2017 AKA EAF Graduate Merit Scholarship, AKA Education Advancement Foundation
- 2017 James Chen Best Student Paper Award, Association for Computing Machinery
- 2016 Graduate Teaching award, University of Notre Dame
- 2015 Social Responsibilities of Researchers, University of Notre Dame

## Publications

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### JOURNAL ARTICLES

- Krasich, K.**, Gjorgieva, E., Murray, S., Bhatia, S., Faber, M., De Brigard, F., & Woldorff, M. G. (in press). The impact of error-consequence severity on cue processing in importance-biased prospective memory. *Cerebral Cortex Communications*.
- Krasich, K.**, Kim, J., Huffman, G., Klaffehn, A. L., & Brockmole, J. R. (in press). Does task-irrelevant music affect gaze allocation during real-world scene viewing?. *Psychonomic Bulletin & Review*.
- Murray S. & **Krasich, K.** (in press). Can the mind wander intentionally?. *Mind and Language*.
- Krasich, K.**, Huffman, G., Faber, M., & Brockmole, J. R. (2020). Where the eyes wander: The relationship between mind wandering and fixation allocation to visually salient and semantically informative static scene content. *Journal of Vision*, 20(9):10, 1-30.
- \* Faber, M., **Krasich, K.**, Bixler, R., Brockmole, J. R., & D’Mello, S. K. (2020). The eye-mind wandering link: Identifying gaze indices of mind wandering across tasks. *Journal of Experimental Psychology: Human Perception and Performance*, 46(10), 1201-1221. [\* = co-first author].
- Murray, S., **Krasich, K.**, Schooler, J. W., & Seli, P. (2020). What’s in a task? Complications in the study of the task-unrelated-thought (TUT) variety of mind wandering. *Perspectives on Psychological Science*, 15(3), 572-588.
- Hutt, S., **Krasich, K.**, Mills, C., Bosch, N., White, S., Brockmole, J. R., & D’Mello, S. K. (2019). Automated gaze-based mind wandering detection during computerized learning in classrooms. *User Modeling and User-Adapted Interaction*. 1-47.
- Krasich, K.**, Biggs, A. T., & Brockmole, J. R. (2018). Attention capture during visual search: The consequences of distractor appeal, familiarity, and frequency. *Visual Cognition*. [Special Issue: Dealing with Distractors], 1-19.
- Krasich, K.**, McManus, R., Hutt, S., Faber, M., D’Mello, S. K., & Brockmole, J. R. (2018). Gaze-Based signatures of mind wandering during real-world scene processing. *Journal of Experimental Psychology: General*. 147(8), 1111-1124.
- Krasich, K.**, Ramger, B., Holton, L., Wang, L., Mitroff, S. R., & Appelbaum, L. G. (2016). Sensorimotor learning in a computerized athletic training battery. *Journal of Motor Behavior*, 48(5), 401-412.
- Wang, L., **Krasich, K.**, Bel-Bahar, T., Hughes, L., Mitroff S.R., & Appelbaum, L.G. (2015). Mapping the structure of perceptual and visual-motor abilities in healthy young adults. *Acta Psychologica*, 157, 74-84.

## PUBLISHED CONFERENCE PROCEEDINGS

- Hutt, S., **Krasich, K.**, Brockmole, J. R., & D’Mello, S. K. (2021, May). A gaze-based attention-aware technology to address mind wandering during learning in classrooms. *Association for Computing Machinery Conference on Human Factors in Computing Systems*. AMC.
- Mills, C., Bosch, N., **Krasich, K.**, & D’Mello, S. K. (2019, June). Reducing Mind-Wandering During Vicarious Learning from an Intelligent Tutoring System. *In International Conference on Artificial Intelligence in Education* (pp. 296-307). Springer, Cham.
- Krasich, K.**, Hutt, S., Mills, C., Spann, C. A., Brockmole, J. R., & D’Mello, S. K. (2018, June). “Mind” TS: Testing a Brief Mindfulness Intervention with an Intelligent Tutoring System. *In International Conference on Artificial Intelligence in Education* (pp. 176-181). Springer, Cham.
- Hutt, S., Mills, C., Bosch, N., **Krasich, K.**, Brockmole, J., R. & D’Mello, S. K. (2017, July). Out of the Fr-Eye-ing Pan: Towards Gaze-Based Models of Attention during Learning with Technology in the Classroom. *In Proceedings of the 25th Conference on User Modeling, Adaptation and Personalization* (pp. 94-103). ACM.

## Book Chapters

- Murray S., Irving Z., & **Krasich, K.** (in press). The scientific study of passing thinking: The methodology of mind wandering research. In De Brigard, F. & Sinnott-Armstrong, W. (Eds.) *Neuroscience and Philosophy*. Cambridge, MA: MIT Press, 389-426.

## Conference presentations

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- Krasich, K.**, Gjorgieva, E., Murray, S., De Brigard, F., & Woldorff, M. G. (2021, June). The neural and behavioral impact of mind wandering on event-based prospective memories with varying error-related consequences. Poster to be presented at the Annual Meeting of the Society for Philosophy and Psychology. Princeton, NJ, USA.
- Krasich, K.** (2020, December). The eye-mind wandering link: Adapting gaze behaviors when the mind begins to wander. Paper to be presented at the Annual Meeting of the Southern Society for Philosophy and Psychology. Louisville, Kentucky, USA.
- Krasich, K.**, Gjorgieva, E., Murray, S., De Brigard, F., & Woldorff, M. G. (2020, May). Delineating the impact of mind wandering on event-based prospective memories with varying error-related consequences. Poster to be presented at the Cognitive Neuroscience Society Annual Meeting. Boston, MA, USA.
- Brockmole, J. R., **Krasich, K.**, & Huffman, G. (2019, November). Where do the eyes wander?: The Relationship between mind wandering and the allocation of gaze to visually salient and semantically meaningful scene content. Paper presented at the Annual Meeting of the Psychonomic Society. Montréal, Québec, Canada.

- Krasich, K.**, Murray, S., Faber, M., & Brockmole, J. R. (2018, November). Stay on target: Does mind wandering affect prospective memory?. Poster presented at the Annual Meeting of the Psychonomic Society. New Orleans, LA, USA.
- Brockmole, J. R., **Krasich, K.**, Hutt, S., & D’Mello, S. K. (2018, November). Attention-aware cyberlearning to detect and combat wandering minds. Paper presented at the Annual Meeting of the Psychonomic Society. New Orleans, LA, USA.
- Krasich, K.**, Faber, M., Brockmole, J. R., & Radvansky, G. A. (2017, November). How quickly we remember: The rate of short-term consolidation. Poster presented at the Annual Meeting of the Psychonomic Society. Vancouver, BC, Canada.
- Krasich, K.**, McManus, R., Hutt, S., Faber, M., D’Mello, S. K., & Brockmole, J. R. (2017, November). Gaze-based indices of mind wandering during real-world scene processing. Paper presented at the Annual Workshop on Object Perception, Attention, and Memory. Vancouver, BC, Canada.
- Krasich, K.**, Clement, A., Stothart, C., & Brockmole, J. R. (2017, May). Does Memory Consolidation Influence Memory-Driven Attentional Capture? Poster presented at the Vision Science Society Annual Meeting. St Pete Beach, FL, USA.
- McManus, R., **Krasich, K.**, Brockmole, J. R., & D’Mello, S. K. (2016, November). Eye movement patterns associated with mind wandering during real-world scene viewing. Poster presented at the Annual Meeting of the Psychonomic Society. Boston, MA, USA.
- Krasich, K.**, Biggs, A. T., & Brockmole, J. R. (2015, November). Infrequency over positivity: How distractors capture attention. Poster presented at the Annual Workshop on Object Perception, Attention, and Memory. Chicago, IL, USA.
- Krasich, K.**, Hughes, L., Wang, L., Bel-Bahar, T., Mitroff, S.R., & Appelbaum, L.G. (2013, November). Visual perception and motor skills across the day. Annual Workshop on Object Perception, Attention, and Memory. Toronto, ON, Canada.
- Appelbaum, L.G., Bel-Bahar, T., Wang, L., **Krasich, K.**, Hughes, L., & Mitroff, S.R. (2013, November). Mapping the core factors of visual perceptual performance. Poster presented at the Annual Meeting of the Psychonomic Society. Toronto, ON, Canada.
- Bel-Bahar, T., Gentzler, E., Adamo, S.H., Wang, L., **Krasich, K.**, Hughes, L., Mitroff S.R., & Appelbaum, L.G. (2013, November). Visuomotor performance is predicted by ERP amplitudes in a rapid serial visual presentation (RSVP) protocol. Poster presented at the Annual Meeting of the Psychonomic Society. Toronto, ON, Canada.

## Invited Colloquia

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- 2021                    **Krasich, K.** “What can eye movements tell us about free will?” Neurophilosophy of Free Will Early-Career Mini-Discussions. Chapman University, CA, USA.

- 2021 Murray, S. & **Krasich, K.** "Free will over time: Distinguishing top-down and now-then control." Chapman University, Chapman University, CA, USA.
- 2019 De Brigard & **Krasich, K.** "Counterfactual thinking, prospective memory, and control: Exploring the connections." Models of Control and Moral Responsibility. University of Copenhagen, Copenhagen, Denmark.
- 2018 **Krasich, K.** "Does mind wandering affect valuable prospective memory?" The Moral Attitudes and Decision-making Laboratory. Duke University, Durham, NC, USA.
- 2018 Murray, S. & Krasich, K. "Responsibility and mind wandering." The META laboratory. University of California Santa Barbra, Santa Barbra, CA, USA.

## Teaching

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- 2017 Guest Lecturer, Introduction to Biopsychology, University of Notre Dame
- 2016 Co-Instructor of Record, Introduction to Biopsychology, University of Notre Dame
- 2015 Teaching Assistant, Introduction to Biopsychology, University of Notre Dame
- 2015 Teaching Assistant, Cognitive Psychology, University of Notre Dame

## Mentorship

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### UNDERGRADUATES

- Vincent Sinfuego. A meta-analysis of prestimulus alpha oscillations and conscious visual perception. Duke University. Internal funding: Summer Neuroscience Program Fellowship (\$3,000). Primary advisor: Dr. Marty Woldorff.
- Shreya Bhatia. Investigating the neural mechanisms by which mind wandering impacts the prospective memory processes. Duke University. Internal funding: Undergraduate Research Support Independent Study Grant (\$400); Psychology and Neuroscience URS Matching Grant (\$400); Charles Lafitte Foundation Undergraduate Travel Grant (\$1,500). Psychology & Neuroscience Small Grant (\$270). Primary advisor: Dr. Marty Woldorff.
- Scott Carlson. Tracking how norm violating omissions impact casual judgements. Duke University. Internal funding: Undergraduate Research Support Independent Study Grant (\$400). Primary advisor: Dr. Felipe De Brigard.
- Joanne Kim. The influence of music on gaze control. University of Notre Dame. Internal funding: Institute for Scholarship in the Liberal Arts (\$1,800); Undergraduate Scholarly Engagement (\$480). Primary advisor: Dr. James R. Brockmole.
- Erin C. Sullivan. The rate of memory stabilization over time. University of Notre Dame. Internal funding: Glynn Family Honors Program, Undergraduate Research Grant (\$5,075). Primary advisor: Dr. James R. Brockmole.

Robert McManus. Using eye movements to identify periods of mind wandering during real-world scene perception. University of Notre Dame. Internal funding: Undergraduate Research Opportunities Grant, Institute for Scholarship in the Liberal Arts (\$3,130). Primary advisor: Dr. James R. Brockmole.

## Department service

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- 2021 Center for Cognitive Neuroscience Training Committee, Durham, NC  
Center for Cognitive Neuroscience, Duke University  
Voted by peers; Leading postdoctoral advocacy and professional development
- 2017 Junior Faculty Search Committee, Notre Dame, IN  
Department of Psychology, University of Notre Dame  
Appointed by faculty; Evaluated applications; Coordinated student feedback

## Ad-hoc reviewing

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J Cogn Neurosci	Int J Environ Res Public Health
J Exp Psychol: Hum Percept Perform	Mem Cogn
J Exp Psychol: Gen	Front Neurosci
Vis Cogn	Int J Hum-Comput Int
Conscious and Cogn	Neuropsychologia
PLOS One	Psychon Bull Rev

## Scientific outreach

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- 2021 Guest Speaker, Default Mode Radio Show, Durham, NC
- 2019 Science Presenter, Science Day, Durham, NC
- 2018 Discussion Leader, Responsible Conduct of Research Workshop, South Bend, IN
- 2017, 2018 Guest Speaker, Penn High School, Mishawaka, IN
- 2016, 2017 Coordinator, Conversations on Brain, Mind, and Behavior, South Bend, IN
- 2016, 2017 Judge, N. Indiana Regional Science & Engineering Fair, South Bend, IN
- 2013, 2014 Science Presenter, N. Carolina Science Festival: Science of Sports, Chapel Hill, NC