

# Kristina Krasich

308 Research Drive Room C03E, LSRC, Durham, NC 27708  
Center for Cognitive Neuroscience, Duke University  
kk144@duke.edu • (919) 225-9626  
<https://sites.duke.edu/kkrasich/>

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## EDUCATION

- May 2019                    **University of Notre Dame**, South Bend, 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

- Summer 2019 - Present                    **Imagination and Modal Cognition Laboratory**, Durham, NC  
**The Woldorff Laboratory**, Durham, NC  
Postdoctoral Associate  
Duke University, Center of Cognitive Neuroscience  
Advisors: Dr. Felipe De Brigard & Dr. Marty Woldorff
- Fall 2014 - Spring 2019                    **Visual Cognition Laboratory**, South Bend, IN  
*Ph.D. Candidate*  
University of Notre Dame, Department of Psychology  
Advisor: Dr. James R. Brockmole
- Fall 2012 - Summer 2014                    **Human Performance Optimization Laboratory**, Durham, NC  
*Lab Manager*  
Duke University, Department of Psychiatry and Behavioral Sciences  
Advisors: Dr. Lawrence G. Appelbaum & Dr. Stephen R. Mitroff
- Summer 2012                    **Duke Visual Cognition Lab**, Durham, NC  
*Research Assistant*  
Duke University, Department of Psychology and Neuroscience  
Advisor: Dr. Stephen R. Mitroff
- Winter 2010 - Summer 2011                    **Duke-UNC Brain Imaging Analysis Center**, Durham, NC  
*Undergraduate Subject Coordinator*  
Duke University, University of North Carolina Chapel Hill  
Supervisor: Ms. Lindsey Carr

## EXTERNAL FUNDING

- 2017 – 2018                    **Summer Seminars in Neuroscience and Philosophy**, Durham, NC  
“Stay on Target: Mind wandering, prospective memory, and responsibility”  
*Co-principal Investigator* (\$30,450)  
With Samuel Murray (University of Notre Dame) & Robert Blakely (Oxford)  
Duke University, John Templeton Foundation

## AWARDS, HONORS, AND DISTICTIONS

Fall 2018	<p><b>Notebaert Professional Development Fund</b>, South Bend, IN  <i>Graduate Student Recipient</i> (\$960)          University of Notre Dame          Travel for conference presentation in New Orleans, LA, USA</p>
Fall 2018	<p><b>GSU Conference Presentation Grant</b>, South Bend, IN  <i>Graduate Student Recipient</i> (\$450)          University of Notre Dame          Travel for conference presentation in New Orleans, LA, USA</p>
Summer 2018	<p><b>Notebaert Professional Development Fund</b>, South Bend, IN  <i>Graduate Student Recipient</i> (\$1,487)          University of Notre Dame          Travel for conference presentation in London, England</p>
Fall 2017	<p><b>Notebaert Professional Development Fund</b>, South Bend, IN  <i>Graduate Student Recipient</i> (\$975)          University of Notre Dame          Travel for conference presentation in Vancouver, BC, Canada</p>
Fall 2017	<p><b>GSU Conference Presentation Grant</b>, South Bend, IN  <i>Graduate Student Recipient</i> (\$350)          University of Notre Dame          Travel for conference presentation in Vancouver, BC, Canada</p>
Fall 2017	<p><b>AKA EAF Graduate Merit Scholarship</b>, Chicago, IL  <i>Graduate Student Recipient</i> (\$1,000)          Alpha Kappa Alpha Educational Advancement Foundation          Merit scholarship earned for academic achievements</p>
Fall 2017	<p><b>James Chen Best Student Paper Award</b>, Bratislava, Slovakia  <i>Co-author Recipient</i> (\$1,000)          Association for Computing Machinery          Award received for conference paper presentation</p>
Fall 2016	<p><b>Graduate Teaching Award</b>, South Bend, IN  <i>Co-instructor of Record</i> (\$100)          University of Notre Dame          Department recognition for outstanding teaching</p>
Spring 2015	<p><b>Social Responsibilities of Researchers</b>, South Bend, IN  <i>Graduate Student Fellow</i> (\$1,600)          University of Notre Dame          Fellowship training in ethical and socially oriented research</p>

## PUBLICATIONS

(peer reviewed)

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**

(peer reviewed)

- 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. [25% paper acceptance rate].
- 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. [poster]
- 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. [24% paper acceptance rate]

## **MANUSCRIPTS UNDER REVIEW**

[\*co-first author publications]

- Murray, S., **Krasich, K.**, Schooler, J. W., & Seli, P. (revise and resubmit). What's in a task? Complications in the study of the task-unrelated-thought (TUT) variety of mind wandering.
- Faber, M., **Krasich, K\***, Bixler, R., Brockmole, J. R., & D'Mello, S. K. (revise and resubmit). The eye-mind wandering link: Identifying gaze indices of mind wandering across tasks.
- Murray S. & **Krasich, K.** (in review). Can the mind wander intentionally?.
- Hutt, S., **Krasich, K.**, Brockmole, J., R., & D'Mello, S. K. (in review). Design of a gaze-based attention-aware technology to address mind wandering during learning.

## **MANUSCRIPTS IN PREPARATION**

- Krasich, K.**, Hutt, S., Brockmole, J., R., & D'Mello, S. K. (in prep). Identifying and combatting mind wandering in classrooms using attention-aware cyberlearning technology.

**Krasich, K.**, Faber, M., Sullivan, E. C., Brockmole, J. R., & Radvansky, G. A. (in prep). How quickly we remember: The rate of memory stabilization over time.

**Krasich, K.**, Huffman, G., Faber, M., & Brockmole, J. R. (in prep). Where the eyes wander: The relationship between mind wandering and gaze control to salient and semantically meaningful visual information in scenes.

Murray, S., **Krasich, K.**, Nadelhoffer, T., & Seli, P. (in prep). Mind wandering and control.

## **INVITED COLLOQUIA**

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| Summer 2019 | <b>Models of Control and Moral Responsibility</b> , Copenhagen, Denmark<br>“Counterfactual thinking, prospective memory, and control: Exploring the connections”<br>University of Copenhagen |
| Summer 2018 | <b>The MADLAB</b> , Durham, NC, USA<br>“Does mind wandering affect valuable prospective memory?”<br>Duke University  |
| Spring 2018 | <b>The META Lab</b> , Santa Barbra, CA, USA<br>“Responsibility and mind wandering”<br>University of California Santa Barbra  |

## **CONFERENCE PRESENTATIONS**

- 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.

## TEACHING EXPERIENCE

Fall 2017	<b>Introduction to Biopsychology</b> , South Bend, IN <i>Guest Lecturer – Psychopharmacology</i> University of Notre Dame
Fall 2016	<b>Introduction to Biopsychology</b> , South Bend, IN <i>Co-instructor of Record</i> University of Notre Dame
Fall 2015	<b>Introduction to Biopsychology</b> , South Bend, IN <i>Teaching Assistant</i> University of Notre Dame
Spring 2015	<b>Cognitive Psychology</b> , South Bend, IN <i>Teaching Assistant</i> University of Notre Dame

## MENTORSHIP

### UNDERGRADUATES

**Shreya Bhatia**, 2019. Investigating the neural mechanisms by which mind wandering impacts the prospective memory processes. Duke University. Internal funding: Undergraduate Research Support Independent Study Grant (\$400). Primary supervisor: Dr. Marty Woldorff.

**Joanne Kim**, 2018. *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 supervisor: Dr. James R. Brockmole.

**Erin C. Sullivan**, 2018. *The rate of memory stabilization over time*. University of Notre Dame. Internal funding: Glynn Family Honors Program, Undergraduate Research Grant (\$5,075). Primary supervisor: Dr. James R. Brockmole.

**Robert McManus**, 2016. *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 supervisor: Dr. James R. Brockmole.

## AD-HOC REVIEWING

*Journal of Cognitive Neuroscience*  
*Journal of Experimental Psychology: Human Perception and Performance*  
*Journal of Experimental Psychology: General*  
*Visual Cognition*  
*Consciousness and Cognition*  
*PLOS One*

## SCIENTIFIC OUTREACH

January 2018	<b>Responsible Conduct of Research Workshop</b> , South Bend, IN <i>Discussion Leader</i> University of Notre Dame Proctored university ethics training for 1 <sup>st</sup> year graduate students
January 2018 May 2017	<b>Penn High School</b> , Mishawaka, IN <i>Guest Speaker</i> Penn-Harris-Madison School Corporation Presented research to 10 <sup>th</sup> and 12 <sup>th</sup> grade biology students
March, 2017 February, 2016	<b>N. Indiana Regional Science &amp; Engineering Fair</b> , South Bend, IN <i>Judge: Behavioral Science</i> The Society for Science & the Public Evaluated science projects and provided feedback to contestants
Spring 2017 Fall 2016	<b>Conversations on Brain, Mind, and Behavior</b> , South Bend, IN <i>Journal Club Coordinator</i> University of Notre Dame Directed journal club, faculty, and guest discussions on neuroscience
April, 2014	<b>N. Carolina Science Festival: Science of Sports</b> , Chapel Hill, NC <i>Science Presenter</i> North Carolina Science Festival Presented research to local community members to promote STEM
October, 2013	<b>Museum of Life &amp; Science: Museum After Hours</b> , Durham, NC <i>Science Presenter</i> North Carolina Museum of Life and Science Presented research to local community members promote STEM

## REFERENCES

**Felipe De Brigard, Ph.D.**  
*Associate Professor*  
Philosophy  
Psychology & Neuroscience  
Center for Cognitive Neuroscience  
Duke University  
felipe.debrigard@duke.edu  
(919) 660-3028

**Marty G. Woldorff, Ph.D.**  
*Professor*  
Psychiatry & Behavioral Sciences  
Psychology & Neuroscience  
Center for Cognitive Neuroscience  
Duke University  
woldorff@duke.edu  
(919) 681-0604

**Walter Sinnott-Armstrong, Ph.D.**  
*Professor*  
Philosophy  
The Kenan Institute for Ethics  
Duke University  
ws66@duke.edu  
(919) 660-3172