

**James R. Brockmole, Ph.D.**  
**Curriculum Vitae**

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Professor and Chair  
Department of Psychology, University of Notre Dame

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**BIOGRAPHY**

**Education**

University of Illinois at Urbana-Champaign, USA: Ph.D. (2003) M.A. (2001)

University of Notre Dame; Notre Dame, IN, USA: B.A., *summa cum laude* (1999)

**Appointments and Professional Experience**

*Academic Appointments*

2017 – Present	Professor, Department of Psychology, University of Notre Dame
2009 – 2017	Associate Professor, Department of Psychology, University of Notre Dame
2009 – 2012	Honorary Fellow, University of Edinburgh (Edinburgh, UK)
2008 – 2009	Reader (Associate Professor), School of Philosophy, Psychology, and Language Science, University of Edinburgh (Edinburgh, UK)
2005 – 2008	Lecturer (Assistant Professor), School of Philosophy, Psychology, and Language Science, University of Edinburgh (Edinburgh, UK)
2003 – 2005	Post-Doctoral Research Associate, Department of Psychology, Michigan State University (East Lansing, MI)

*Administrative Appointments*

2023 – Present	Chair, Department of Psychology, University of Notre Dame
2020 – 2023	Associate Dean for Research and Strategic Initiatives, College of Arts and Letters, University of Notre Dame
2020 – 2023	Director, Institute for Scholarship in the Liberal Arts, University of Notre Dame
2016 – 2020	Associate Dean for the Social Sciences and Research, College of Arts and Letters, University of Notre Dame

*Continued: Administrative Appointments*

2013 – 2014	Acting Associate Dean for Undergraduate Studies, College of Arts and Letters, University of Notre Dame
2011 – 2013	Director of Graduate Studies, Department of Psychology, University of Notre Dame
2008 – 2009	Director, MSc. in Visual Cognition, School of Philosophy, Psychology, and Language Science, University of Edinburgh.

*Professional Appointments*

2020 – 2023	Editor-In-Chief, <i>Psychonomic Bulletin &amp; Review</i>
2015 – 2016	Associate Editor, <i>Attention, Perception, &amp; Psychophysics</i>
2011 – 2013	Associate Editor, <i>Journal of Experimental Psychology: Human Perception and Performance</i>
2009 – 2014	Consulting Editor, <i>Attention, Perception, &amp; Psychophysics</i>
2008 – 2013	Consulting Editor, <i>Journal of Experimental Psychology: General</i>
2006 – 2020	Consulting Editor, <i>Visual Cognition</i>

**Professional Awards and Honors**

*Honorific Appointments*

Joseph and Elizabeth Robbie Collegiate Chair (term limited), in recognition of achievements as "as a scholar, teacher, and citizen of the University." (2017 – 2023)

*Elected Fellowship in Professional Associations*

Association for Psychological Science  
Gesellschaft für Unendliche Versuche, GUV (Retired)  
Psychonomic Society  
Royal Society of Arts  
Phi Beta Kappa Society

**SCHOLARSHIP**

**Externally Funded Research Projects**

Where applicable, currency conversion is based on exchange rates at the time of each award.

*Awards as Principal / Co-Principal Investigator*

Templeton Religion Trust: *Assessing the Impact of Sacred Art on Individual Experience, Memory, and Spiritual Understanding*. Co-PI with Robin Jensen (Theology) and GA Radvansky. June 2022 – May 2025; \$926,216.

*Continued: Awards and Principal / Co-Principal Investigator*

Templeton Religion Trust: *Understanding the Enduring Impact of Encounters with Sacred Art on Individual Spiritual Reality*. Co-PI with Robin Jensen (Theology) and GA Radvansky. July 2020 – Dec 2021; \$230,620.

National Science Foundation Intelligent Information Systems: *Attention-aware cyberlearning to detect and combat inattentiveness during learning*. Co-PI with Sidney D’Mello (Notre Dame / Colorado-Boulder); Sept 2015 – Aug 2019; \$549,865.

European Research Council Starting Grant: *The effects of aging on object representation in visual working memory*. PI; Sept 2008 – Aug 2011; €500,000 (approx. \$790,000).

Economic and Social Research Council (UK) Research Grant: *Capture of gaze by transient changes to real-world scenes*. PI; June 2008 – May 2009; £102,196 (approx. \$205,000).

British Academy Research Grant: *Implicit and explicit spatial working memory in unilateral visual neglect*. Co-PI with Robert McIntosh (Edinburgh); July 2007 – June 2009; £3,522 (approx. \$7,000).

Royal Society of Edinburgh International Exchange Programme: Effects of visual novelty on attentional disengagement. PI; Oct 2007 – Nov 2007; £2,498 (approx. \$5,000).

British Academy Research Grant: Why does visual working memory decline with age? PI; Aug 2006 – July 2007; £5,448 (approx. \$11,000).

*Awards to Mentored Graduate Students / Post-Doctoral Fellows*

John Templeton Foundation / Duke Institute for Brain Sciences: *Stay on target: Mind wandering, prospective memory, and responsibility*. Co-Mentor (with Nathan Rose, Notre Dame) to Kristina Krasich. Additional graduate co-investigators: Samuel Murray (Notre Dame) and Robert Blakey (Oxford). Aug 2017 – July 2018. \$30,450.

National Science Foundation Graduate Research Fellowship: *Is memory for text influenced by hand position and interacting while reading?* Co-Mentor (with G.A. Radvansky, Notre Dame) to Andrea Kalchik; Aug 2015 – July 2018; approx. \$135,000.

Economic and Social Research Council (UK) Post-Doctoral Fellowship: *Target location probability effects in visual search*. Mentor to Carol Walhew; Feb 2008 – Jan 2009; £91,904 (approx. \$183,000).

**Externally Funded Fellowships**

National Science Foundation Graduate Research Fellowship. University of Illinois at Urbana-Champaign. 2000-2003; approx. \$100,000.

## Publications

*h-index*: 44; *i10-index*: 71; *total citations*: > 5,850 (excluding textbook)

<sup>P</sup>, <sup>G</sup>, and <sup>U</sup> respectively designate post-doctoral fellows, graduate students, and undergraduate students primarily working in my lab

<sup>P\*</sup>, <sup>G\*</sup>, and <sup>U\*</sup> respectively designate collaborating post-doctoral fellows, graduate students, and undergraduate students primarily working in other labs

### *Authored Books*

Goldstein, E. B., & Brockmole, J. R. (2017). *Sensation and Perception*, 10<sup>th</sup> Edition. Belmont, CA: Wadsworth/Cengage.

### *Edited Books*

Brockmole, J. R. (Ed.) (2009). *The Visual World in Memory*. Hove, UK: Psychology Press.

Brockmole, J. R., & Franconeri, S.L. (Eds.) (2009). *Binding*. Hove, UK: Psychology Press.

### *Peer-Reviewed Journal Articles*

<sup>G, P\*</sup> Krasich, K., <sup>G\*</sup> O'Neill, K.O., Murray, S., Brockmole, J. R., De Brigard, F., & Nuthmann, A. (in press). A computational modeling approach to investigating mind wandering-related adjustments to gaze behavior during scene viewing. *Cognition*.

<sup>G\*</sup> Li, T., <sup>G\*</sup> Quintero, M., <sup>U\*</sup> Galvan, M., <sup>U\*</sup> Shanafelt, S., Hasty, L. M., Spangler, D. P., Lyons, I. M., Mazzocco, M. M. M., Brockmole, J. R., Hart, S. A., & Wang, Z. (2023). The mediating role of attention in the association between math anxiety and math performance: An eye-tracking study. *Journal of Educational Psychology*, 115, 229-240.

<sup>G</sup> Vilanova-Goldstein, A. C., Huffman, G., & Brockmole, J. R. (2022). Interactions among endogenous, exogenous, and agency-driven attentional selection mechanisms in interactive displays. *Attention, Perception, & Psychophysics*, 84, 1477-1488.

<sup>G, P\*</sup> Krasich, K., <sup>U</sup>Kim, J., <sup>P</sup>Huffman, G., <sup>G\*</sup>Klaffehn, A. L., & Brockmole, J. R. (2021). Does task-irrelevant music affect gaze allocation during real-world scene viewing? *Psychonomic Bulletin & Review*, 28, 1944-1960.

<sup>P\*</sup>Hutt, S., <sup>G, P\*</sup>Krasich, K., Brockmole, J., & D'Mello, S. K. (2021). Breaking out of the lab: Mitigating mind wandering with gaze-based attention-aware technology in classrooms. *Proceedings of the ACM CHI Conference on Human Factors in Computing Systems (CHI 2021)*. New York: ACM.

<sup>G, P\*</sup>Clement, A., & Brockmole, J. R. (2020). Updating perception and action across real-world viewpoint changes. *Attention, Perception, & Psychophysics*, 82, 2603-2617.

Davoli, C. C., <sup>G\*</sup>O'Rear, C. D., <sup>U</sup>McAuley, E., McNeil, N. M., & Brockmole, J. R. (2020). Hand placement affects performance on multiplication tasks. *Journal of Numerical Cognition*, 6, 1-21.

*Continued: Peer-Reviewed Journal Articles*

- <sup>P\*</sup>Faber, M., <sup>G</sup>, <sup>P\*</sup>Krasich, K., <sup>G\*</sup>Bixler, R. E., Brockmole, J. R., & D’Mello, S. D. (2020). The eye-mind wandering link: Identifying indices of mind wandering across tasks. *Journal of Experimental Psychology: Human Perception and Performance*, *46*, 1201-1221.
- <sup>P</sup>Huffman, G., & Brockmole, J. R. (2020). Attentional selection is biased toward controllable stimuli. *Attention, Perception, & Psychophysics*, *82*, 2558-2569.
- <sup>G</sup>, <sup>P\*</sup>Krasich, K., <sup>P</sup>Huffman, G., <sup>P\*</sup>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*, *20:10*, 1-30.
- <sup>G</sup>, <sup>P\*</sup>Clement, A., <sup>G\*</sup>O’Donnell, R. E., & Brockmole, J. R. (2019). The functional arrangement of objects bias gaze direction. *Psychonomic Bulletin & Review*, *26*, 1266-1272.
- <sup>G</sup>Clement, A., <sup>P</sup>Stothart, C., Drew, T., & Brockmole, J. R. (2019). Between-category semantic associations do not modulate the visual awareness of objects. *Quarterly Journal of Experimental Psychology*, *72*, 1224-1232.
- <sup>G\*</sup>Hutt, S., <sup>G</sup>Krasich, K., <sup>P\*</sup>Mills, C., <sup>P\*</sup>Bosch, N., White, S., Brockmole, J. R., & D’Mello, S. K. (2019). Gaze-based models of mind wandering in classrooms. *User Modeling and User-Adapted Interaction*, *4*, 821-867.
- <sup>G</sup>Krasich, K., Biggs, A. T., & Brockmole, J. R. (2019). Attention capture during visual search: The consequences of distractor appeal, familiarity, and frequency. *Visual Cognition*, *27*, 260-278. (Special issue on “Dealing with Distractors in Visual Search”).
- <sup>P</sup>Stothart, C., & Brockmole, J. R. (2019). Finding “satisfaction” in search: Individuals’ own search expectations predict their errors in multiple-target search. *Attention, Perception, & Psychophysics*, *81*, 2659-2665.
- <sup>G</sup>Krasich, K., <sup>U</sup>, <sup>G\*</sup>McManus, R., <sup>G\*</sup>Hutt, S., <sup>P\*</sup>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*, 1111-1124.
- <sup>U</sup>, <sup>G\*</sup>O’Donnell, R. E., <sup>G</sup>Clement, A., & Brockmole, J. R. (2018). Semantic and functional relationships among objects increase the capacity of visual working memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *44*, 1151-1158.
- <sup>P</sup>Stothart, C., <sup>G</sup>Clement, A., & Brockmole, J. R. (2018). Satisfaction in motion: Subsequent search misses are more likely in moving search displays. *Psychonomic Bulletin & Review*, *25*, 409-415.
- <sup>G</sup>Clement, A., Radvansky, G. A., & Brockmole, J. R. (2017). Compression of environmental representations following interactions with objects. *Attention, Perception, & Psychophysics*, *79*, 2460-2466.
- Tatler, B. W., Brockmole, J. R., & Carpenter, R. H. S. (2017). LATEST: A model of saccadic decisions in space and time. *Psychological Review*, *124*, 267-300.
- <sup>U</sup>, <sup>G\*</sup>Cronin, D. A., & Brockmole, J. R. (2016). Evaluating the influence of a fixated object’s spatio-temporal properties on gaze control. *Attention, Perception, & Psychophysics*, *78*, 996-1003.

*Continued: Peer-Reviewed Journal Articles*

- Costello, M. C., <sup>G\*</sup>Bloesch, E. K., Davoli, C. C., <sup>U\*</sup>Panting, N. D., Abrams, R. A., & Brockmole, J. R. (2015). Spatial representations in older adults are not modified by action: Evidence from Tool Use. *Psychology and Aging, 30*, 656-668.
- <sup>G\*</sup>Wright, T. J., Boot, W. R., & Brockmole, J. R. (2015). Functional fixedness: The functional significance of delayed disengagement based on attention set. *Journal of Experimental Psychology: Human Perception and Performance, 41*, 17-21.
- <sup>G\*</sup>Biggs, A. T., Brockmole, J. R., & Witt, J. K. (2014). Armed and attentive: Holding a weapon can bias attentional priorities in scene viewing. *Attention, Perception, & Psychophysics, 75*, 1715-1724.
- <sup>G\*</sup>Biggs, A. T., <sup>G\*</sup>Stey, P., Davoli, C. C., Lapsley, D., & Brockmole, J. R. (2014). Knowing where to draw the line: Perceptual differences between risk-takers and non-risk-takers. *PLoS ONE, 9*, e91880.
- <sup>U</sup>Kelly, S. P., & Brockmole, J. R. (2014). Hand proximity differentially affects visual working memory for color and orientation in a binding task. *Frontiers in Psychology, 5*, Article 318.
- Thomas, L. A., Davoli, C. C., & Brockmole, J. R. (2014). Competitive interaction leads to perceptual distancing between actors. *Journal of Experimental Psychology: Human Perception and Performance, 40*, 2112-2116.
- Brockmole, J. R., <sup>P</sup>Davoli, C. C., Abrams, R. A., & Witt, J. K. (2013). The world within reach: Effects of hand posture and tool-use on visual cognition. *Current Directions in Psychological Science, 22*, 38-44.
- Brockmole, J. R., & Logie, R. H. (2013). Age-related change in visual working memory: A study of 55,753 participants aged 8 to 75. *Frontiers in Psychology, 4*, Article 12.
- <sup>P\*</sup>Chesney, D. L., McNeil, N. M., Brockmole, J. R., & Kelley, K. (2013). An eye for relations: Eye-tracking indicates long-term negative effects of operational thinking on understanding of math equivalence. *Memory & Cognition, 41*, 1079-1095.
- Thomas, L. E., <sup>P</sup>Davoli, C. C., & Brockmole, J. R. (2013). Interacting with objects compresses environmental representations in spatial memory. *Psychonomic Bulletin and Review, 20*, 101-107.
- <sup>G\*</sup>Blakely, D. P., <sup>G\*</sup>Wright, T., <sup>U\*</sup>Dehili, V. M., Boot, W. R., & Brockmole, J. R. (2012). Characterizing the time course and nature of attentional disengagement effects. *Vision Research, 56*, 38-48.
- <sup>G\*</sup>Bloesch, E. K., <sup>P</sup>Davoli, C. C., <sup>U\*</sup>Roth, N., Brockmole, J. R., & Abrams, R. A. (2012). Watch this! Observed tool use affects perceived distance. *Psychonomic Bulletin & Review, 19*, 177-183.
- <sup>G\*</sup>Bredemeier, K., Berenbaum, H., Brockmole, J. R., Boot, W. R., Simons, D. J., & Most, S. B. (2012). A load on my mind: Evidence that anhedonic depression is like multi-tasking. *Acta Psychologica, 139*, 137-145.
- <sup>P</sup>Brown, L. A., Brockmole, J. R., <sup>P\*</sup>Gow, A. J., & Deary, I. J. (2012). Processing speed and visuo-spatial executive function predict visual working memory ability in older adults. *Experimental Aging Research, 38*, 1-19.

*Continued: Peer-Reviewed Journal Articles*

- <sup>P</sup>Davoli, C. C., & Brockmole, J. R. (2012). The hands shield attention from visual interference. *Attention, Perception, & Psychophysics*, *74*, 1386-1390.
- <sup>P</sup>Davoli, C. C., Brockmole, J. R., Du, F., & Abrams, R. A. (2012). Switching between global and local scopes of attention is resisted near the hands. *Visual Cognition*, *20*, 659-668.
- <sup>P</sup>Davoli, C. C., Brockmole, J. R., & Goujon, A. (2012). A bias to detail: How hand position modulates visual learning and visual memory. *Memory & Cognition*, *40*, 352-359.
- <sup>P</sup>Davoli, C. C., Brockmole, J. R., & Witt, J. K. (2012). Compressing perceived distance with remote tool-use: Real, imagined, and remembered. *Journal of Experimental Psychology: Human Perception and Performance*, *38*, 80-89.
- <sup>P\*</sup>Goujon, A., Brockmole, J. R., & <sup>U. G\*</sup>Ehinger, K. A. (2012). How visual and semantic information influence learning in familiar contexts. *Journal of Experimental Psychology: Human Perception and Performance*, *38*, 1315-1327.
- Schneps, M. H., Brockmole, J. R., Sonnert, G., & Pomplun, M. (2012). History of reading struggles linked to enhanced learning in low spatial frequency scenes. *PLoS ONE*, *7*, e35724.
- Witt, J. K., & Brockmole, J. R. (2012). Action alters object identification: Wielding a gun increases the bias to see guns. *Journal of Experimental Psychology: Human Perception and Performance*, *38*, 1159-1167.
- Logie, R. H., Brockmole, J. R., & <sup>G\*</sup>Jaswal, S. (2011). Feature binding in visual short-term memory is unaffected by task-irrelevant changes of location, shape, and color. *Memory & Cognition*, *39*, 24-36.
- <sup>P</sup>Matsukura, M., Brockmole, J. R., Boot, W. R., & Henderson, J. M. (2011). Oculomotor capture during real-world scene viewing depends on cognitive load. *Vision Research*, *51*, 546-552.
- Boot, W. R., & Brockmole, J. R. (2010). Irrelevant features at fixation modulate saccadic latency and direction in visual search. *Visual Cognition*, *18*, 481-491.
- Brockmole, J. R., & <sup>P\*</sup>Võ, M. L.-H. (2010). Semantic memory for contextual regularities within and across scene categories: Evidence from eye movements. *Attention, Perception, & Psychophysics*, *72*, 1803-1813.
- <sup>P</sup>Brown, L. A., & Brockmole, J. R. (2010). The role of attention in binding of visual features in visual working memory: Evidence from cognitive ageing. *Quarterly Journal of Experimental Psychology*, *63*, 2067-2079.
- Johnson, W., Logie, R. H., & Brockmole, J. R. (2010). Working memory tasks differ in factor structure across age cohorts: Evidence for dedifferentiation. *Intelligence*, *38*, 513-528.
- McIntosh, R. D., <sup>G\*</sup>Mulroue, A., & Brockmole, J. R. (2010). How automatic is the hand's automatic pilot? Evidence from dual-task studies. *Experimental Brain Research*, *206*, 257-269.
- Brockmole, J. R., & Boot, W. R. (2009). Should I stay or should I go? Attentional disengagement from visually unique and unexpected items at fixation. *Journal of Experimental Psychology: Human Perception and Performance*, *35*, 808-815.
- Logie, R. H., Brockmole, J. R., & <sup>G\*</sup>Vandenbroucke, A. R. E. (2009). Bound feature combinations are fragile in visual short-term memory but form the basis for long-term learning. *Visual Cognition*, *17*, 375-390.

*Continued: Peer-Reviewed Journal Articles*

- <sup>P</sup>Matsukura, M., Brockmole, J. R., & Henderson, J. M. (2009). Overt attentional prioritization of new objects and feature changes during real-world scene viewing. *Visual Cognition*, *17*, 835-855.
- Brockmole, J. R., Hambrick, D. Z., <sup>U</sup>Windisch, D. J., & Henderson, J. M. (2008). The role of meaning in contextual cueing: Evidence from chess expertise. *Quarterly Journal of Experimental Psychology*, *61*, 1886-1896.
- Brockmole, J. R., & Henderson, J. M. (2008). Prioritizing new objects for eye fixation in real-world scenes: Effects of object-scene consistency. *Visual Cognition*, *16*, 375-390.
- Brockmole, J. R., <sup>G\*</sup>Parra, M.A., Della Sala, S., & Logie, R. H. (2008). Do binding deficits account for age-related decline in visual working memory?. *Psychonomic Bulletin & Review*, *15*, 543-547.
- <sup>U, G\*</sup>Ehinger, K. A., & Brockmole, J. R. (2008). The role of color in visual search in real-world scenes: Evidence from contextual cueing. *Perception & Psychophysics*, *70*, 1366-1378.
- Henderson, J. M., Brockmole, J. R., & Gajewski, D. A. (2008). Differential detection of global luminance and contrast changes across saccades and flickers during active scene perception. *Vision Research*, *48*, 16-29.
- Brockmole, J. R., Castelano, M. S., & Henderson, J. M. (2006). Contextual Cueing in Naturalistic Scenes: Global and Local Contexts. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *32*, 699-706.
- Brockmole, J. R., & Henderson, J. M. (2006a). Recognition and attention guidance during contextual cueing in real-world scenes: Evidence from eye movements. *Quarterly Journal of Experimental Psychology*, *59*, 1177-1187.
- Brockmole, J. R., & Henderson, J. M. (2006b). Using real-world scenes as contextual cues for search. *Visual Cognition*, *13*, 99-108.
- Gajewski, D. A., & Brockmole, J. R. (2006). Feature bindings endure without attention: Evidence from an explicit recall task. *Psychonomic Bulletin & Review*, *13*, 581-587.
- Boot, W. R., Brockmole, J. R., & Simons, D. J. (2005). Attention capture is modulated in dual-task situations. *Psychonomic Bulletin & Review*, *12*, 662-668.
- Brockmole, J. R., & Henderson, J. M. (2005a). Prioritization of new objects in real-world scenes: Evidence from eye movements. *Journal of Experimental Psychology: Human Perception and Performance*, *31*, 857-868.
- Brockmole, J. R., & Henderson, J. M. (2005b). Object appearance, disappearance, and attention prioritization in real-world scenes. *Psychonomic Bulletin & Review*, *12*, 1061-1067.
- Brockmole, J. R., & Irwin, D. E. (2005). Eye movements and the integration of visual memory and visual perception. *Perception & Psychophysics* *67*, 495-512.
- Irwin, D. E., & Brockmole, J. R. (2004). Suppressing where but not what: The effect of saccades on dorsal- and ventral-stream visual processing. *Psychological Science*, *15*, 467-473.
- Brockmole, J. R., Irwin, D. E., & Wang, R. F. (2003). The locus of spatial attention during the temporal integration of visual memories and percepts. *Psychonomic Bulletin & Review*, *10*, 510-515.



*Continued: Peer-Reviewed Journal Articles*

- Brockmole, J. R., & Wang, R. F. (2003). Integrating visual images and visual percepts across time and space. *Visual Cognition*, 10, 853-873.
- Brockmole, J. R., & Wang, R. F. (2003). Changing perspective within and across environments. *Cognition*, 87, B59-B67.
- Wang, R. F., & Brockmole, J. R. (2003). Simultaneous spatial updating in nested environments. *Psychonomic Bulletin & Review*, 10, 981-986.
- Wang, R. F., & Brockmole, J. R. (2003). Human navigation in nested environments. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 29, 398-404.
- Brockmole, J. R., Carlson, L. A., & Irwin, D. E. (2002). Inhibition of attended processing during saccadic eye movements. *Perception & Psychophysics*, 64, 867-881.
- Brockmole, J. R., & Wang, R. F. (2002). Switching between environmental representations in memory. *Cognition*, 83, 295-316.
- Brockmole, J. R., Wang, R. F., and Irwin, D. E. (2002). Temporal integration of visual images and visual percepts. *Journal of Experimental Psychology: Human Perception and Performance*, 28, 315-334.
- Irwin, D. E., & Brockmole, J. R. (2000). Mental rotation is suppressed during saccadic eye movements. *Psychonomic Bulletin & Review*, 7, 654-661.

*Book Chapters*

- Brockmole, J. R., <sup>P</sup>Davoli, C. C., & <sup>G</sup>Cronin, D. A. (2012). The visual world in sight and mind: How attention and memory interact to determine visual experience. In B. H. Ross (Ed.). *The Psychology of Learning and Motivation*, Vol. 57 (pgs 103-145). London: Elsevier.
- Brockmole, J. R., & <sup>P</sup>Matsukura, M. (2011). Eye movements and change detection. In S. P. Liversedge, I. D. Gilchrist, & S. Everling (Eds.). *Oxford Handbook on Eye Movements* (pgs 563 – 578). New York: Oxford University Press.
- Brockmole, J. R. (2010). Attention and memory. In E. B. Goldstein (Ed.). *Encyclopedia of Perception* (pgs. 121-125). Thousand Oaks, CA: Sage.
- Henderson, J. M., Brockmole, J. R., Castelhana, M. S., & Mack, M. (2007). Visual saliency does not account for eye movements during visual search in real-world scenes. In R. P. G. van Gompel, M. H. Fischer, W. S. Murray, & R. L. Hill (Eds.), *Eye movements: A window on mind and brain* (pp. 537-562). Oxford: Elsevier.
- Brockmole, J. R., & Wang, R. F. (2005). Spatial processing of environmental representations. In L. Itti, G. Rees, & J. Tsotsos (Eds.). *Neurobiology of Attention*. Academic Press.

**Departmental Colloquia**

- 2023 Vanderbilt University, Nashville, TN
- 2020 Florida State University, Tallahassee, FL
- 2019 Michigan State University, East Lansing, MI
- 2018 University of East Anglia, Norwich, United Kingdom
- 2016 Indiana University, Bloomington, IN

*Continued: Departmental Colloquia*

- 2014 Washington University in St. Louis, St. Louis, MO
- 2013 Colorado State University, Fort Collins, CO
- 2013 North Dakota State University, Fargo, ND
- 2012 New York University, New York, NY
- 2012 University of Nevada - Las Vegas, Las Vegas, NV
- 2011 Denison University, Granville, OH
- 2011 University of Delaware, Newark, DE
- 2011 University of Missouri, Columbia, MO
- 2010 University of Dundee, Dundee, Scotland
- 2010 Northwestern University, Evanston, IL
- 2010 Purdue University, West Lafayette, IN
- 2010 University of Toronto, Toronto, ON, Canada
- 2010 University of Chicago, Chicago, IL
- 2009 University of Aberdeen, Aberdeen, Scotland
- 2009 University of Illinois, Urbana, IL
- 2009 University of Notre Dame, Notre Dame, IN
- 2008 University of Munich, Munich, Germany
- 2007 University of Trieste, Trieste, Italy
- 2006 Vrije Universiteit, Amsterdam, Netherlands
- 2005 University at Buffalo - State University of New York, Buffalo, NY
- 2005 University of Edinburgh, Edinburgh, Scotland
- 2004 Lancaster University, Lancaster, England
- 2003 Carnegie Mellon University, Pittsburgh, PA
- 2003 Johns Hopkins University, Baltimore, MD
- 2003 Michigan State University, East Lansing, MI
- 2003 University of Iowa, Cedar Rapids, IA
- 2003 University of Massachusetts, Amherst, MA
- 2003 University of North Carolina, Chapel Hill, NC
- 2003 University of Western Ontario, London, ON, Canada
- 2002 Southern Illinois University, Carbondale, IL
- 2001 University of Michigan, Ann Arbor, MI

**Conference and Workshop Presentations**

Read or presented by first author unless otherwise noted

Brockmole, J. R. (November 2023). The evolution of an idea: Eye movements in theory and application. Keynote address at the 31<sup>st</sup> Annual Workshop on Object Perception, Attention, and Memory (OPAM). San Francisco, CA.

Dageforde, S. & Brockmole, J. R. (November 2023). Biases in visual memory following judgments of threat. Poster presented at the 64<sup>th</sup> Annual Meeting of the Psychonomic Society. San Francisco, CA.

*Continued: Conference and Workshop Presentations*

- Vilanova-Goldstein, A., & Brockmole, J. R. (November 2023). The sense of agency as a source of selection history in visual search. Poster presented at the 64<sup>th</sup> Annual Meeting of the Psychonomic Society. San Francisco, VA.
- Parra, D., Dageforde, S., Malik, K. M., Jensen, R. M., Brockmole, J. R., & Radvansky, G. A. (July, 2023). Temporal context and the experience and memory of art. Poster presented at the 44<sup>th</sup> Annual Meeting of the Cognitive Science Society. Sydney, Australia.
- Dageforde, S., Parra, D., Jensen, R., Brockmole, J. R., & Radvansky, G. A. (November, 2022). Encounters and memory for representational and abstract art. Poster presented at the 63<sup>rd</sup> Annual Meeting of the Psychonomic Society. Boston, MA.
- Vilanova-Goldstein, A., & Brockmole, J. R. (November, 2022). Does a sense of agency improve visual working memory for controlled objects? Poster presented at the 63<sup>rd</sup> Annual Meeting of the Psychonomic Society. Boston, MA.
- Dageforde, S., Parra, D., Jensen, R., Brockmole, J. R., & Radvansky, G. A. (August, 2022, presented by D. P.). Encounters and memory for representational and abstract art. Poster presented at The Visual Science of Art Conference. Amsterdam, Netherlands.
- O'Neill, K., Krasich, K., Murray, S., Brockmole, J.R., Nuthmann, A., De Brigard, F. (August, 2022). Fixation duration variability increases with mind wandering during scene viewing. Poster Presented at the Conference on Cognitive Computational Neuroscience. San Francisco, CA.
- Tighe, E. E., Vilanova-Goldstein, A. C., & Brockmole, J. R. (November, 2021; read by J.R.B.). The role of spatio-temporal prediction in agency-driven attentional selection. Paper presented at the 62<sup>nd</sup> Annual Meeting of the Psychonomic Society. Virtual Meeting (originally New Orleans, LA).
- Villanova-Goldstein, A. C., Tighe, E. E., & Brockmole, J. R. (November, 2021). The role of spatio-temporal prediction in agency-driven attentional selection. Paper presented at the 29<sup>th</sup> Annual Workshop on Object Perception, Attention, and Memory (OPAM). Virtual meeting (originally New Orleans, LA).
- Hutt, S. J., Krasich, K., Brockmole, J. R., & D'Mello, S. D. (May, 2021). A gaze-based attention-aware technology to address mind wandering during learning in classrooms. ACM Conference on Human Factors in Computing Systems (CHI'21). Virtual Meeting (originally Yokohama, Japan).
- Vilanova-Goldstein, A., Huffman, G., & Brockmole, J. R. (November, 2020). Agency-driven biases in visual selective attention. Poster presented at the 28<sup>st</sup> Annual Workshop on Object Attention, Perception, and Memory (OPAM). Virtual Meeting (originally Austin, TX).
- Vilanova-Goldstein, A., Huffman, G., & Brockmole, J. R. (November, 2020). Interactions among bottom-up, top-down, and agency-driven biases in selective attention. Poster presented at the 61<sup>st</sup> Annual Meeting of the Psychonomic Society. Virtual Meeting (originally Austin, TX).
- Brockmole, J. R., Krasich, K., & Huffman, G. (November, 2019). 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 60<sup>th</sup> Annual Meeting of the Psychonomic Society. Montreal, Ontario, Canada.

*Continued: Conference and Workshop Presentations*

- Huffman, G., & Brockmole, J. R. (November, 2019). Visual attention is captured by controllable objects. Poster presented at the 60<sup>th</sup> Annual Meeting of the Psychonomic Society. Montreal, Ontario, Canada.
- Clement, A. S., & Brockmole, J. R. (May, 2019). Updating perception and action across real-world viewpoint changes. Paper presented at the 19<sup>th</sup> Annual Meeting of the Vision Sciences Society. St. Pete Beach, FL.
- Brockmole, J. R., Krasich, K., Hutt, S., & D'Mello, S. D. (November, 2018). Attention-aware cyberlearning to detect and combat wandering minds. Paper presented at the 59<sup>th</sup> Annual Meeting of the Psychonomic Society. New Orleans, LA.
- Clement, A., & Brockmole, J. R. (November, 2018). Updating perception and action across real-world viewpoint changes. Paper presented at the 26<sup>th</sup> annual Workshop on Object Perception, Attention, and Memory (OPAM). New Orleans, LA.
- Krasich, K., Murray, S. F., Faber, M., & Brockmole, J. R. (November, 2018). Stay on target: Does mind wandering affect prospective memory? (November, 2018). Poster presented at the 59<sup>th</sup> Annual Meeting of the Psychonomic Society. New Orleans, LA.
- Clement, A., O'Donnell, R. E., & Brockmole, J. R. (May, 2018). Semantic and functional relationships among objects bias gaze control. Poster presented at the Annual Meeting of the Vision Sciences Society. St. Pete Beach, FL.
- Krasich, K., Faber, M., Brockmole, J. R., & Radvansky, G. A. (November, 2017). How quickly we remember: The rate of short-term consolidation. Poster presented at the 58<sup>th</sup> Annual Meeting of the Psychonomic Society. Vancouver, Canada.
- Krasich, K., McManus, R., Hutt, S., Faber, M., D'Mellow, S. K., & Brockmole, J. R. (November, 2017). Gaze-based indices of mind wandering during real-world scene processing. Paper presented at the 25<sup>th</sup> annual Workshop on Object Perception, Attention, and Memory (OPAM). Vancouver, Canada.
- Stothart, C., Bixler, R., Brockmole, J. R., & D'Mello, S. (November, 2017). Team coordination in visual search with and without shared eye movements. Poster presented at the 58<sup>th</sup> Annual Meeting of the Psychonomic Society. Vancouver, Canada.
- Krasich, K., Clement, A. S., Stothart, C., & Brockmole, J. R. (May 2017). Does memory consolidation influence memory-driven attentional capture? Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Stothart, C., Clement, A. S., & Brockmole, J. R. (May, 2017). Satisfaction in motion: Moving search displays increase subsequent search misses. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Sisk, C., & Brockmole, J. R. (April, 2017). Does location have special priority in memory-driven attention allocation? Poster presented at the Eighty-Ninth Annual Meeting of the Midwestern Psychological Association. Chicago, IL.
- Clement, A. S., Brockmole, J. R., & Irwin, D. E. (November, 2016). Does the temporal and spatial processing of objects share a common code? Poster presented at the 24<sup>th</sup> annual Workshop on Object Perception, Attention, and Memory (OPAM). Boston, MA.

*Continued: Conference and Workshop Presentations*

- Clement, A. S., & Brockmole, J. R. (November, 2016). Changes in observer location eliminate tool-based compression of distance. Poster presented at the 57<sup>th</sup> Annual Meeting of the Psychonomic Society. Boston, MA.
- McManus, R. Krasich, K., Brockmole, J. R., & D’Mello, S. K. (November, 2016). Eye movement patters associated with mind wandering during real-world scene viewing. Poster presented at the 57<sup>th</sup> Annual Meeting of the Psychonomic Society. Boston, MA.
- Brockmole, J. R. (August, 2016). Hand posture influences semantic processing. Invited Paper presented at the “Perception, Action, and Embodiment Symposium” at the American Psychological Association Annual Convention, Denver, CO.
- Clement, A. S., & Brockmole, J. R. (May, 2016). Action-Based Compression of Spatial Memory for Individual and Nested Environments. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Clement, A. S., & Brockmole, J. R. (November, 2015). Eye movements during reading are affected by hand proximity to the text. Poster presented at the 23<sup>rd</sup> annual Workshop on Object Perception, Attention, and Memory (OPAM), Chicago, IL.
- Clement, A. S., & Brockmole, J. R. (November, 2015). Eye movements during reading are affected by hand proximity to the text. Poster presented at the 56<sup>th</sup> Annual Meeting of the Psychonomic Society. Chicago, IL.
- Krasich, K., Biggs, A. T., & Brockmole, J. R. (November, 2015). Infrequency over positivity: How distractors capture attention. Poster presented at the 23<sup>rd</sup> annual Workshop on Object Perception, Attention, and Memory (OPAM), Chicago, IL.
- Brockmole, J. R., Davoli, C. C., Ehrman, E., & McNeil, N. M. (November 2013). Getting a grip on concepts: Hand position affects access to mathematical knowledge. Paper presented at the 54<sup>th</sup> Annual Meeting of the Psychonomic Society. Toronto, ON, Canada.
- Thomas, L. E., Davoli, C. C., & Brockmole, J. R. (November 2013). Competitive interaction leads to perceptual distancing between actors. Poster presented at the 54<sup>th</sup> Annual Meeting of the Psychonomic Society. Toronto, ON, Canada.
- Costello, M. C., Davoli, C. C., Panting, N. D., & Brockmole, J. R. (May, 2013). Age-related differences of an embodied tool-effect in distance perception. Poster presented at the 13<sup>th</sup> Annual Meeting of the Vision Sciences Society, Naples, FL.
- Tatler, B. Brockmole, J. R., & Carpenter, R. (August, 2013). Saccadic decisions in scene viewing. Paper presented at the European Conference on Eye Movements (ECEM). Lund, Sweden.
- Davoli, C. C., Thomas, L. E., & Brockmole, J. R. (November, 2012). Interaction compresses environmental representations in spatial memory. Paper presented at the 53<sup>rd</sup> annual meeting of the Psychonomic Society, Minneapolis, MN.
- Cronin, D. A., & Brockmole, J. R. (November, 2012). Reference frames, implied motion, animacy, and gaze control. Paper presented at the 20<sup>th</sup> annual Workshop on Object Perception, Attention, and Memory (OPAM), Minneapolis, MN.
- Brockmole, J. R. (September 2012). Controlling the motion of attention. Invited paper presented at the Optical Society of America Fall Vision Meeting, Rochester, NY.

*Continued: Conference and Workshop Presentations*

- Biggs, A. T., Brockmole, J. R., & Witt, J. K. (May, 2012). Armed and attentive: Holding a weapon can alter attentional priorities in scene viewing. Poster presented at the 12<sup>th</sup> Annual Meeting of the Vision Sciences Society, Naples, FL.
- Davoli, C. C., & Brockmole, J. R. (May, 2012). Handcuffing visual attention: Selection is narrowed and slowed near the hands. Poster presented at the 12<sup>th</sup> Annual Meeting of the Vision Sciences Society, Naples, FL.
- Davoli, C. C., & Brockmole, J. R. (November, 2011). Holding on and letting go: The allocation of attention to space and objects is constricted and slowed near the hands. Paper presented at the 19<sup>th</sup> annual Workshop on Object Perception, Attention, and Memory (OPAM), Seattle, WA.
- Witt, J. K., & Brockmole, J. R. (November, 2011, Read by J.R.B.). Action affects object recognition: Wielding a gun creates a bias to see guns. Paper presented at the 52<sup>nd</sup> annual meeting of the Psychonomic Society, Seattle, WA.
- Schneps, M., & Brockmole, J. R. (September, 2011). *Dyslexia linked to spatial learning advantages in contexts dominated by low-spatial frequencies*. Poster presented at the 34<sup>th</sup> European Conference on Visual Perception, Toulouse, France.
- Blakely, D., Wright, T., Boot, W. R., & Brockmole, J. R. (May, 2011). *On the precision of attention sets: Effects of distractor probability and temporal expectations on contingent capture*. Poster presented at 11<sup>th</sup> Annual Meeting of the Vision Sciences Society, Naples, FL.
- Boot, W. R., Wright, T., Blakely, D., & Brockmole, J. R. (May, 2011). *The time course and nature of attentional disengagement effects*. Poster presented at the 11<sup>th</sup> Annual Meeting of the Vision Sciences Society, Naples, FL.
- Brockmole, J. R., & Witt, J. K. (May, 2011). *Action alters object identification: Wielding a gun creates a bias to see guns*. Poster presented at the 11<sup>th</sup> Annual Meeting of the Vision Sciences Society, Naples, FL.
- Davoli, C. C., Brockmole, J. R., & Witt, J. K. (May, 2011). *Compressing perceived distance through real and imagined tool use*. Poster presented at the 11<sup>th</sup> Annual Meeting of the Vision Sciences Society, Naples, FL.
- Wright, R., Blakely, D., Jones, J., Boot, W., & Brockmole, J. R. (May, 2011). *Linguistic and feature cues interact to determine saccadic latency and direction in visual search*. Poster presented at the 11<sup>th</sup> Annual Meeting of the Vision Sciences Society, Naples, FL.
- Boot, W. R., & Brockmole, J. R. (May, 2010). *Can't take my eyes off of you: Delayed attentional disengagement based on attention set*. Poster presented at the 10<sup>th</sup> Annual Meeting of the Vision Sciences Society, Naples, FL.
- Schneps, M. H., Brockmole, J. R., Heffner-Wong, A., Pomplun, M., Hwang, A. D., & Sonnert, G. (May, 2010). *The role of gist in dyslexia*. Poster presented at the 10<sup>th</sup> Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Brown, L. A., & Brockmole, J. R. (April, 2010). *The role of attention in binding visual features in working memory: Evidence from cognitive ageing*. Paper presented at the Plenary Session of the 13<sup>th</sup> Cognitive Aging Conference, Atlanta, GA.

*Continued: Conference and Workshop Presentations*

- Brockmole, J. R., & Vo, M. L.-H. (November, 2009). *The role of semantic memory in learning contextual regularities in real-world scenes*. Paper presented at the 50<sup>th</sup> Annual Meeting of the Psychonomic Society, Boston, Massachusetts.
- Brockmole, J. R., & Boot, W. R. (November, 2008). *Task-Irrelevant Visual Novelty Delays the Disengagement of Overt Attention*. Paper presented at the 49<sup>th</sup> Annual Meeting of the Psychonomic Society, Chicago, Illinois.
- Brockmole, J. R. (April, 2008). *Representing Objects: Binding Mechanisms in VSTM Constrain Learning and Storage in VLTM*. Invited speaker at ESRC Seminar Series: Advancing Our Understanding of Memory and Cognitive Functioning, Lancaster, England.
- Brockmole, J. R. (December, 2007). *Attention, Memory, and Real-World Scene Processing*. Invited paper presented at the Rank Prize Funds Symposium on Representations of the Visual World in the Brain, Grasmere, England.
- Brockmole, J. R., & Henderson, J. M. (November, 2007). *Prioritizing New Objects for Eye Fixation in Scenes: Effects of Object-Scene Consistency*. Paper presented at the 48<sup>th</sup> Annual Meeting of the Psychonomic Society, Long Beach, California.
- Logie, R. H., Brockmole, J. R., & Vandembroucke, A. (August, 2007). *Binding across the life span in visuo-spatial working memory*. Paper presented at the meeting of the European Society for Cognitive Psychology, Marseille, France.
- Brockmole, J. R., & Logie, R. H. (July, 2007). *Why Does Visual Working Memory Decline With Age: A Binding Study*. Invited Paper presented at the “Binding in Working Memory Symposium” at the joint meeting of the Psychonomic Society and Experimental Psychology Society, Edinburgh, Scotland.
- Brockmole, J. R., Hambrick, D. Z., Windisch, D. J., & Henderson, J. M. (July, 2007). *Meaning and Expertise in Contextual Cueing*. Paper presented at the joint meeting of the Psychonomic Society and Experimental Psychology Society, Edinburgh, Scotland.
- Jaswal, S., Brockmole, J. R., & Logie, R. H. (July, 2007). *Location as a feature in binding in visual working memory*. Poster presented at the joint meeting of the Psychonomic Society and Experimental Psychology Society, Edinburgh, Scotland.
- Brockmole, J. R., Castelano, M. S., & Henderson, J. M. (April, 2006). *The Roles of Local Objects and Scene Identity in Contextual Cueing in Scenes*. Paper presented at the Meeting of the Experimental Psychology Society, Birmingham, England.
- Brockmole, J. R., & Henderson, J. M. (November, 2005). *Contextual Cueing in Real-World Scenes*. Paper presented at the 46<sup>th</sup> Annual Meeting of the Psychonomic Society, Toronto, Ontario, Canada.
- Gajewski, D. A., & Brockmole, J. R. (November, 2005). *Feature Binding in Visual Working Memory Without Continued Attention*. Poster presented at the 46<sup>th</sup> Annual Meeting of the Psychonomic Society, Toronto, Ontario, Canada.
- Hartman, M., Pukay-Martin, N. D., McCabe, J., & Brockmole, J. R. (November, 2005). *Temporal Integration: Measuring Age Differences in Working Memory Capacity and Consolidation*. Paper presented at the 46<sup>th</sup> Annual Meeting of the Psychonomic Society, Toronto, Ontario, Canada.

*Continued: Conference and Workshop Presentations*

- Brockmole, J. R., Mack, M. L., Castelhana, M. S., Oliva, A., & Henderson, J. M. (November, 2004). *Fixation Duration is Related to Local Image Statistics During Real-World Scene Viewing*. Poster presented at the 45<sup>th</sup> Annual Meeting of the Psychonomic Society, Minneapolis, MN.
- Brockmole, J. R., & Henderson, J. M. (May, 2004). *Attentional prioritization of new objects in natural scenes*. Paper presented at the 4<sup>th</sup> Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Brockmole, J. R., Boot, W. R., Simons, D. E., & Alexander, A. L. (November, 2003). *Time's up for contingency: Contingent capture is explained by temporal confusion*. Poster presented at the 11<sup>th</sup> Annual Workshop on Object Perception, Attention, and Memory, Vancouver, Canada.
- Brockmole, J. R., Irwin, D. E., & Wang, R. F. (November, 2003). *Eye movements and the integration of visual imagery and visual perception*. Poster presented at the 44<sup>th</sup> Annual Meeting of the Psychonomic Society, Vancouver, Canada.
- Brockmole, J. R., Boot, W. R., & Simons, D. J. (May, 2003). *An auditory secondary task modulates attention capture in visual search*. Poster presented at the 3<sup>rd</sup> Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Brockmole, J. R., Wang, R. F., & Irwin, D. E. (November, 2002). *Multiple memory-percept integration*. Poster presented at the 43<sup>rd</sup> Annual Meeting of the Psychonomic Society, Kansas City, MO.
- Brockmole, J. R., Wang, R. F., & Irwin, D. E. (May, 2002). *Properties of memory-percept integration*. Paper presented at the 2<sup>nd</sup> Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Wang, R. F., Brockmole, J. R., & Abdul-Salaam, R. A. (May, 2002). *Spatial updating across environments*. Paper presented at the 2<sup>nd</sup> Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Brockmole, J. R., Wang, R. F., & Irwin, D. E. (November, 2001). *Integration of visual memories and percepts: What is the memory process?* Paper presented at the 9<sup>th</sup> Annual Workshop on Object Perception and Memory, Orlando, FL.
- Irwin, D. E., & Brockmole, J. R. (November, 2001). *Suppressing where but not what: The effect of saccades on dorsal- and ventral-stream visual processing*. Paper presented at the 42<sup>nd</sup> Annual Meeting of the Psychonomic Society, Orlando, FL.
- Brockmole, J. R., Wang, R. F., & Irwin, D. E. (July, 2001). *Integrating visual memory and perception*. **Invited** paper presented as part of a symposium on Visual Memory: Object Representation and Integration at the 3<sup>rd</sup> International Conference on Memory, Valencia.
- Brockmole, J. R., & Wang, R. F. (November, 2000). *Switching between environmental representations in memory*. Paper presented at the 8<sup>th</sup> Annual Workshop on Object Perception and Memory, New Orleans, LA.



*Continued: Conference and Workshop Presentations*

Brockmole, J. R., Wang, R. F., & Irwin, D. E. (November, 2000). *Temporal integration between visual memory and perception*. Poster presented at the 41<sup>st</sup> Annual Meeting of the Psychonomic Society, New Orleans, LA.

Wang, R. F., Brockmole, J. R., & Stewart, C. C. (November, 2000). *Being oriented and disoriented at the same time*. Poster presented at the 41<sup>st</sup> Annual Meeting of the Psychonomic Society, New Orleans, LA.

Irwin, D. E., Brockmole, J. R., & Kramer, A. F. (June, 2000). *Does attention precede involuntary saccades?* Paper presented at Attraction, Distraction, and Action: An Interdisciplinary Conference and Workshop, Villanova, PA.

Brockmole, J. R., Carlson-Radvansky, L. A. (May, 2000). *Shifts of attentional scale are suppressed during saccadic eye movements*. Paper presented at the 72<sup>nd</sup> Annual Meeting of the Midwest Psychological Association, Chicago, IL.

## **TEACHING AND MENTORSHIP**

### **Courses Taught**

*Undergraduate Level:* Cognitive Psychology (lecture), Methods for the Behavioral Sciences (lecture and lab), Visual Memory (seminar)

*Graduate Level:* Visual Memory (seminar)

### **Post-Doctoral Fellows Mentored**

Greg Huffman, Ph.D. Fellowship: 2018 – 2020, University of Notre Dame. Placement: Research Scientist, Naval Health Research Center San Diego. Current Position: Same.

Cary Stothart, Ph.D. Fellowship: 2016 – 2017, University of Notre Dame. Placement: Research Psychologist, U.S. Army Research Institute for the Behavioral and Social Sciences. Current Position: Same.

Christopher Davoli, Ph.D. Fellowship: 2009 – 2012, University of Notre Dame. Placement: Assistant Professor, Central Michigan University. Current Position: Associate Professor, Central Michigan University.

Michi Matsukura, Ph.D. Fellowship: 2008 – 2009, University of Edinburgh. Placement: Post-Doctoral Fellow and Instructor, University of Iowa. Current Position: Assistant Professor, Western Washington University.

Louise Brown, Ph.D. Fellowship: 2008 – 2009, University of Edinburgh. Placement: Lecturer (Assistant Professor), Nottingham-Trent University, England. Current Position: Senior Lecturer (Associate Professor), Strathclyde University, Scotland.

Carol Walthew, Ph.D. Fellowship: 2007 – 2008, University of Edinburgh. Placement: Senior Gallery Enabler (Curator), Birmingham Science Museum, England.

## Dissertations and Theses Directed

### *Doctoral Dissertations*

#### Primary Supervision

Sean Dageforde, Expected 2025. *Effects of Categorical Decision Making on Episodic Visual Memory*. Univ. Notre Dame.

Adam Vilanova-Goldstein, Expected 2024. *The Effects of Agency on Attentional Control*. Univ. Notre Dame.

Kristina Krasich, 2019. *The Effect of Mind Wandering on Gaze Control*. Univ. of Notre Dame. Placement: Post-Doctoral Fellowship, Duke University. Current Position: Assistant Professor, Elon University.

Andrew Clement, 2018. *Updating perception and action across real-world viewpoint changes*. University of Notre Dame. Placement: Post-Doctoral Fellowship, University of Toronto. Current Position: Assistant Professor, Millsaps College.

Konstantinos Tsagkaridis, 2009. *Semantic and action influences on visual perception*. University of Edinburgh. Placement: Post-Doctoral Fellowship, Moss Rehabilitation Hospital, Philadelphia, PA. Current Position: Lecturer in Psychology, Theological School of the Church of Cyprus.

#### Secondary Supervision

Amy Mulroue, 2011. *The automatic pilot: Cognitive and neurological aspects of the online correction of manual aiming movements*. University of Edinburgh.

Natasha Dare, 2010. *Out of this word: The effect of parafoveal orthographic information on central word processing*. University of Edinburgh.

Snehlata Jaswal, 2010. *Binding visual features in human perception and memory*. University of Edinburgh.

### *Master's Theses*

Sean Dageforde, 2021. *Reward, Loss, and Visual Selection*. University of Notre Dame.

Adam Vilanova-Goldstein, 2021. *Agency-Driven Biases in Visual Selective Attention*. University of Notre Dame.

Kristina Krasich, 2016. *Driven to distraction: Affect and the capture of visual attention*. University of Notre Dame.

Andrew Clement, 2015. *Action-based compression of spatial memory for multiple nested environments*. University of Notre Dame.

### *Senior Theses*

Caitlin Cunningham, 2024. *Source attribution and the processing of visual art and text*.

*Continued: Senior Thesis Supervision*

- Helen Gu, 2022. *The allocation of attention based on others' body orientation*. Internal Funding: College of Science Summer Undergraduate Research Fellowship (\$4500). Placement: MD, The Ohio State University.
- Emily Tighe, 2021. *Agency driven biases in selective attention*. Placement: Ph.D. in Psychology, University of Utah (Jeanine Stefanucci and Sarah Creem-Regehr).
- Kelly White, 2021. *Source memory for semantic and functional relationships among objects*. Placement: Pending
- Joanne Kim, 2019. *The influence on music on gaze control*. Internal Funding: Institute for Scholarship in the Liberal Arts (\$1,800). Placement: Master of Science in Information, University of Michigan.
- Erin Sullivan, 2019. *The rate of memory stabilization over time*. Internal Funding: Institute for Scholarship in the Liberal Arts (\$4,626). Placement: MD, Cleveland Clinic Lerner College of Medicine.
- Gabriella Adams, 2018. *The perception of distance to threats*. Placement: DO, Kansas City University of Medicine and Biosciences.
- Ryan O'Donnell, 2017. *The influence of semantic, spatial, and functional relationships among objects on the capacity of visual working memory*. University of Notre Dame. Published as: O'Donnell, R. E., Clement, A., & Brockmole, J. R. (2018). Semantic and functional relationships among objects increase the capacity of visual working memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 44, 1151-1158. Placement: Ph.D. in Psychology, Pennsylvania State University (Brad Wyble)
- Caitlin Sisk, 2017. *The special role of location in memory-driven attention allocation*. University of Notre Dame. Internal Funding: Institute for Scholarship in the Liberal Arts (\$375). Awards: John F. Santos Award for most outstanding graduating senior in psychology. Placement: Ph.D. in Psychology, University of Minnesota (Yuhong Jiang/Vanessa Lee).
- Robert McManus, 2016. *Using Eye Movements to Identify Periods of Mind Wandering During Real-World Scene Perception*. University of Notre Dame. Internal Funding: Institute for Scholarship in the Liberal Arts (\$3,130). Published as: 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, 1111-1124. Placement: Ph.D. in Psychology, North Dakota State University (Laura Thomas).
- Shane Kelly, 2014. *Hand proximity differentially affects working memory for color and shape*. University of Notre Dame. Internal Funding: Institute for Scholarship in the Liberal Arts (\$3,100). Published as: Kelly, S. P., & Brockmole, J. R. (2014). Hand proximity differentially affects visual working memory for color and orientation in a binding task. *Frontiers in Psychology*, 5, Article 318. Awards: First Prize, Bernoulli Award for undergraduate research papers (all departments) that use statistical methods to analyze an applied problem. Placement: Ph.D. in Psychology, George Mason University (Matthew Peterson).

*Continued: Senior Thesis Supervision*

Emily Ehrman, 2013. *Hand posture: Visual attention and learning*. University of Notre Dame. Internal Funding: Institute for Scholarship in the Liberal Arts (\$1,125). Placement: Master's in School Counseling, Butler University.

Jennifer Rawding, 2013. *The effects of valence on eye-gaze and performance on relational memory tasks*. University of Notre Dame. Co-directed by Jessica Payne (Notre Dame). Internal Funding: Glynn Family Honors Program (\$2,250). Placement: Master's in Psychology, University of Chicago.

Deborah Cronin, 2012. *Spatial reference frames, implied motion, and perceived animacy: Influences on Gaze*. University of Notre Dame. Internal Funding: Institute for Scholarship in the Liberal Arts (\$600). Published as: Cronin, D. A., & Brockmole, J. R. (2016). Evaluating the influence of a fixated object's spatio-temporal properties on gaze control. *Attention, Perception, & Psychophysics*, 78, 996-1003. Placement: Ph.D. in Psychology, University of Illinois at Urbana-Champaign (Alejandro Lleras and David Irwin).

David Elliott, 2008. *Fluctuating asymmetry and its relation to cognitive function*. University of Edinburgh. Placement: Non-academic.

Laura Elliott-Jones, 2008. *Fluctuating asymmetry: How is it related to mental functions?* University of Edinburgh. Placement: FC Business Intelligence (non-academic).

Krista Ehinger, 2007. *Role of low- and high-spatial frequency information in real-world scene contextual cueing*. University of Edinburgh. Placement: Ph.D. in Cognitive Science, Massachusetts Institute of Technology (Ruth Rosenholtz).

Julia Luther, 2007. *What causes cognitive suppression across saccadic eye movements?* University of Edinburgh. Placement: Non-academic.

Georgina Ramage, 2007. *Feature bindings in visual working memory: Fragile or robust?* University of Edinburgh. Placement: Ernst & Young (non-academic).

David Windisch, 2007. *Contextual cueing in CT scans: Expertise, meaning, and memory*. University of Edinburgh. Placement: Master's in Finance, Tilburg University (Netherlands).

**External Doctoral Examiner**

Jordana Wynn, 2020. *Gaze reinstatement supports relational memory in younger and older adults*. Univ. of Toronto, Canada.

Davood Gozli, 2015. *Associative learning as a source of visual bias*. Univ. of Toronto, Canada.

Claire Kirtley, 2014. *Perception and action weighting in memory representations*. Univ. of Dundee, Scotland.

Maha Adamo, 2010. *The Nature of Working Memory: Separate, flexible resources for location- vs. feature-based representations in visual short-term memory*. Univ. of Toronto, Canada.

**Internal Graduate Examination Committees**

*Doctoral Committees:*

Sean Dageforde, Expected 2025 (Chair). Cognition, Brain, & Behavior Program

*Continued: Doctoral Committees*

Jamie Trost, Expected 2024. Cognition, Brain, & Behavior Program  
Adam Vilanova-Goldstein, Expected 2024 (Chair). Cognition, Brain, & Behavior Program  
Abigail Csik Doolen, 2022. Cognition, Brain, & Behavior Program  
Daniel Schor, 2022. Cognition, Brain, & Behavior Program  
Jerry Fisher, 2020. Cognition, Brain, & Behavior Program  
Andrea Kalchik, 2019. Cognition, Brain, & Behavior Program  
Kristina Krasich, 2019 (Chair). Cognition, Brain, & Behavior Program  
Joseph Pauszek, 2019. Cognition, Brain, & Behavior Program  
Kathryn Ralph, 2019. Cognition, Brain, & Behavior Program  
Andrew Clement, 2018 (Chair). Cognition, Brain, & Behavior Program  
Jennifer Kolesari, 2018. Cognition, Brain, & Behavior Program  
Pedro Sztybel, 2017. Cognition, Brain, & Behavior Program  
Kyle Pettijohn, 2016. Cognition, Brain, & Behavior Program  
Elizabeth Hendriks, 2015. Clinical Psychology Program  
Alexis Thompson, 2014. Cognition, Brain, & Behavior Program  
Gregory Davis, 2014. Joint Psychology and Computer Science Program  
Jared Miller, 2013. Cognition, Brain, & Behavior Program  
Adam Biggs, 2012. Cognition, Brain, & Behavior Program

*Masters Committees:*

Dani Parra, Expected 2024. Cognition, Brain, & Behavior Program  
Jamie Trost, 2023. Cognition, Brain, & Behavior Program  
Sean Dageforde, 2021 (Chair). Cognition, Brain, & Behavior Program  
Adam Goldstein, 2021 (Chair). Cognition, Brain, & Behavior Program  
Abigail Csik, 2019. Cognition, Brain, & Behavior Program  
Joseph Pauszek, 2017. Cognition, Brain, & Behavior Program  
Connor O'Rear, 2017. Developmental Psychology Program  
Christopher Galeucia, 2016. Cognition, Brain, & Behavior Program  
Andrea Kalchik, 2016. Cognition, Brain, & Behavior Program  
Jennifer Kolesari, 2016. Cognition, Brain, & Behavior Program  
Kristina Krasich, 2016 (Chair). Cognition, Brain, & Behavior Program  
Andrew Clement, 2015 (Chair). Cognition, Brain, & Behavior Program  
Pedro Sztybel, 2015. Cognition, Brain, & Behavior Program  
Caroline Byrd, 2014. Developmental Psychology Program  
Alexis Thompson, 2013. Cognition, Brain, & Behavior Program

*Continued: Masters Committees*

Won Jae Shin, 2013. Cognition, Brain, & Behavior Program

Jared Miller, 2011. Cognition, Brain, & Behavior Program

**SERVICE AND ADMINISTRATIVE EXPERIENCE**

**Academic Leadership**

Chair, Department of Psychology, University of Notre Dame; 2023 – Present.

Associate Dean for Research and Strategic Initiatives, College of Arts and Letters, University of Notre Dame; 2020 – 2023.

Director, Institute for Scholarship in the Liberal Arts, University of Notre Dame; 2020 – 2023.

Associate Dean for the Social Sciences and Research, College of Arts and Letters, University of Notre Dame; 2016 – 2020

Acting Associate Dean for Undergraduate Studies, College of Arts and Letters, University of Notre Dame; 2013 – 2014.

Director of Graduate Studies, Department of Psychology, University of Notre Dame; 2011 – 2013.

Director, MSc. in Visual Cognition, School of Philosophy, Psychology, and Language Science, University of Edinburgh; 2008 – 2009.

**University Service**

(Notre Dame unless otherwise noted)

Covid-19 Task Forces on a) Instructional Continuity, b) Graduate Student Continuity, c) Research, d) Research Laboratory Operations; 2020-2021

Conveners: Various Vice Presidents. Charges: To develop and implement university-level responses/strategies for operations affected by the global Covid-19 pandemic

Center for Social Science Research Advisory Committee; 2018 – 2023

Convener: VP for Research. Charge: To maximize the benefits of the resources the CSSR offers to students, faculty, and staff to advance research in the social sciences.

Catalyst Seed Grants Task Force, Science of Wellness Initiative; 2018 – 2019

Convener: VP for Research. Charge: To develop and administer a seed grant program to support the University's developing investment in precision health/personalized medicine.

Laboratory Safety Advisory Committee; 2016 – 2023

Convener: Director of Risk Management. Charge: To create a research and teaching environment in which hazards are understood and the associated risks are minimized.

Graduate Studies Leadership Committee; 2016 – 2020

Convener: Dean of the Graduate School. Charge: To advise the Dean on policy matters common to the Colleges/Schools regarding admissions, funding, and academic support.

*Continued: University Service*

Faculty Research Support Program – Regular Grant Committee; 2016 – 2020

Convener: VP for Research. Charge: To evaluate and prioritize internal grant proposals to support outstanding research, scholarship, or creative endeavor up to \$100,000

Center for Research Computing Advisory Committee; 2016 – 2018

Convener: VP for Research. Charge: To maximize the benefits of the resources the CRC offers to students, faculty, and staff to advance research through scientific computing.

Science and Engineering Research Council; 2016 – 2018

Convener: VP for Research. Charge: To develop and sustain strategic research initiatives, investments, and core facilities in science and engineering.

Ad Hoc Committee on the Evaluation of Teaching, Co-Chair; 2015 – 2017

Convener: Provost. Charge: To evaluate, establish, and promote best practices and procedures for the evaluation of teaching across the University.

Human Subjects Institutional Review Board; 2015 – 2016

Convener: University President. Charge: To safeguard the rights and welfare of all human subjects who participate in research.

Faculty Board on Athletics; 2014 – 2018

Convener: University President. Charge: To advise the President on educational issues related to intercollegiate athletics; ensure that the athletics program operates in consonance with University mission; promote the welfare and educational success of student-athletes.

Academic Code and Policy Committee; 2013 – 2014

Convener: Provost. Charge: To review and amend the Undergraduate Academic Code which regulates and governs progress toward and attainment of academic credit and degrees.

Academic Council; 2013 – 2014

Convener: University President. Charge: To determine policies and regulations of the University pertaining to admission, degree programs, graduation, and the Academic Articles.

Faculty Senate; 2010 – 2011

Convener: Chair of the Senate. Charge: To provide an assembly through which the Faculty can exercise a collective and independent voice in the governance of the University.

Senatus Academicus (University of Edinburgh); 2006 – 2009

Convener: University Principal. Charge: To direct, regulate, and promote the teaching and research of the University and to maintain the quality and standards of the University.

**College Service**

*Current*

Arts & Letters College Council; 2016 – Present

*Past*

Arts & Letters Financial Planning Working Group; 2020 – 2022

Arts & Letters Priority Planning Team / Strategic Planning Committee; 2019 – 2022

*Continued: College Service*

Committee on Undergraduate Programs in Global Affairs, Co-Chair; 2017 – 2018 (Arts & Letters and Keough School for Global Affairs)  
Arts & Letters Executive Committee; 2016 – 2023  
Arts & Letters Committee on Non-Obligatory Promotions; 2016 - 2020  
Arts & Letters Diversity and Inclusion Coordinator; 2016 – 2018  
Graduate School Technical Writing Focus Group; 2013 – 2015  
Arts & Letters College Council; 2013 – 2014  
Arts & Letters Executive Committee; 2013 – 2014  
Arts & Letters Undergraduate Studies Committee, Chair; 2013 – 2014  
Glynn Family Honors Program Advisory Board; 2013 – 2014

**Department Service**

(Notre Dame Department of Psychology unless otherwise noted)

Undergraduate Studies Committee; 2014 - 2016  
Corbett Family Hall Architecture and Design Committee; 2013 – 2016  
Committee on Appointments and Promotions; 2011 – 2013  
Graduate Studies Committee; 2010 – 2013, Chair 2011 – 2013  
Website Committee; 2010 – 2011  
Publicity and Events Committee, Chair; 2009 – 2010  
Colloquium Committee, 2009 – 2010  
Research Committee (PPLS, Edinburgh); 2007 – 2009

**National Service**

Editor-In-Chief:     *Psychonomic Bulletin & Review*, IF 5.536 (2020 - Present)

Associate Editor:     1. *Attention, Perception, & Psychophysics*, IF: 2.168 (2015 – 2016)  
                              2. *Journal of Experimental Psychology: Human Perception and Performance*, IF = 3.358 (2011 - 2013)

Consulting Editor:    1. *Visual Cognition*, IF: 1.921 (2006 – 2020)  
                              2. *Journal of Experimental Psychology: General*, IF: 5.929 (2008 – 2013)  
                              3. *Attention, Perception, & Psychophysics*, IF: 2.168 (2009 – 2014)



*Continued: National Service*

- Guest Editor:
1. 2017 Special Issue of *Journal of Experimental Psychology: Human Perception and Performance* commemorating 125 years (with S. Becker, M. Castelhana, S. Creem-Regehr, J. Enns, R. Gray, H. Hecht, B. Juhasz, J. Philbeck, & G. Woodman).
  2. 2009 Special Issue of *Visual Cognition* on Binding (with S. Franconeri)
- Review Panels / Study Sections
- 2019 – 2020 National Academies Panel on Review of Extramural Basic Research at the Army Research Laboratory
  - 2018 National Academies Panel on In-House Laboratory Independent Research in the Life Sciences at the Army's Research, Development, and Engineering Centers (RDECs)
  - 2016 National Science Foundation Graduate Research Fellowship Program (Psychology Panel 2)
- Associations:
- 2013 – 2014 Strategic Plan Implementation Committee, Psychonomic Society