

James R. Brockmole, Ph.D.
Curriculum Vitae

Professor and Chair
Department of Psychology, University of Notre Dame

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Phone: 574-631-6650 Email: James.Brockmole@nd.edu Web: visualcognition.nd.edu

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 & Review</i>
2015 – 2016	Associate Editor, <i>Attention, Perception, & Psychophysics</i>
2011 – 2013	Associate Editor, <i>Journal of Experimental Psychology: Human Perception and Performance</i>
2009 – 2014	Consulting Editor, <i>Attention, Perception, & 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: 46; *i10-index*: 73; *total citations*: > 6,300 (excluding textbook)

^P, ^G, and ^U respectively designate post-doctoral fellows, graduate students, and undergraduate students primarily working in my lab

^{P*}, ^{G*}, and ^{U*} 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*, 10th 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

^G Dageforde, S., ^{G*} Parra, D., ^{U*} Malik, K., ^{G*} Christensen, L., Jenson, R. M., Brockmole, J. R., & Radvansky, G. A. (2024). The effect of temporal context on memory for art. *Acta Psychologica*, 248, 104349, 1-10.

^G, ^{P*} Krasich, K., ^{G*} 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*.

^{G*} Li, T., ^{G*} Quintero, M., ^{U*} Galvan, M., ^{U*} 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.

^G 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.

^G, ^{P*} Krasich, K., ^U Kim, J., ^P Huffman, G., ^{G*} 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.

^{P*} Hutt, S., ^G, ^{P*} 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.

^G, ^{P*} Clement, A., & Brockmole, J. R. (2020). Updating perception and action across real-world viewpoint changes. *Attention, Perception, & Psychophysics*, 82, 2603-2617.

Continued: Peer-Reviewed Journal Articles

- Davoli, C. C., ^{G*}O'Rear, C. D., ^UMcAuley, E., McNeil, N. M., & Brockmole, J. R. (2020). Hand placement affects performance on multiplication tasks. *Journal of Numerical Cognition*, 6, 1-21.
- ^{P*}Faber, M., ^G, ^{P*}Krasich, K., ^{G*}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.
- ^PHuffman, G., & Brockmole, J. R. (2020). Attentional selection is biased toward controllable stimuli. *Attention, Perception, & Psychophysics*, 82, 2558-2569.
- ^G, ^{P*}Krasich, K., ^PHuffman, G., ^{P*}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.
- ^G, ^{P*}Clement, A., ^{G*}O'Donnell, R. E., & Brockmole, J. R. (2019). The functional arrangement of objects bias gaze direction. *Psychonomic Bulletin & Review*, 26, 1266-1272.
- ^GClement, A., ^PStothart, 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.
- ^{G*}Hutt, S., ^GKrasich, K., ^{P*}Mills, C., ^{P*}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.
- ^GKrasich, 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").
- ^PStothart, 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.
- ^GKrasich, K., ^U, ^{G*}McManus, R., ^{G*}Hutt, S., ^{P*}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.
- ^U, ^{G*}O'Donnell, R. E., ^GClement, 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.
- ^PStothart, C., ^GClement, A., & Brockmole, J. R. (2018). Satisfaction in motion: Subsequent search misses are more likely in moving search displays. *Psychonomic Bulletin & Review*, 25, 409-415.
- ^GClement, 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.

Continued: Peer-Reviewed Journal Articles

- ^{U, G*}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.
- Costello, M. C., ^{G*}Bloesch, E. K., Davoli, C. C., ^{U*}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.
- ^{G*}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.
- ^{G*}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.
- ^{G*}Biggs, A. T., ^{G*}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.
- ^UKelly, 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., ^PDavoli, 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.
- ^{P*}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., ^PDavoli, C. C., & Brockmole, J. R. (2013). Interacting with objects compresses environmental representations in spatial memory. *Psychonomic Bulletin and Review*, 20, 101-107.
- ^{G*}Blakely, D. P., ^{G*}Wright, T., ^{U*}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.
- ^{G*}Bloesch, E. K., ^PDavoli, C. C., ^{U*}Roth, N., Brockmole, J. R., & Abrams, R. A. (2012). Watch this! Observed tool use affects perceived distance. *Psychonomic Bulletin & Review*, 19, 177-183.
- ^{G*}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.

Continued: Peer-Reviewed Journal Articles

- ^PBrown, L. A., Brockmole, J. R., ^{P*}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.
- ^PDavoli, C. C., & Brockmole, J. R. (2012). The hands shield attention from visual interference. *Attention, Perception, & Psychophysics*, 74, 1386-1390.
- ^PDavoli, 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.
- ^PDavoli, 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.
- ^PDavoli, 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.
- ^{P*}Goujon, A., Brockmole, J. R., & ^{U, G*}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., & ^{G*}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.
- ^PMatsukura, 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., & ^{P*}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.
- ^PBrown, 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., ^{G*}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.

Continued: Peer-Reviewed Journal Articles

- Logie, R. H., Brockmole, J. R., & ^{G*}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.
- ^PMatsukura, 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., ^UWindisch, 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., ^{G*}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.
- ^{U, G*}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.

Continued: Peer-Reviewed Journal Articles

- 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.
- 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., ^PDavoli, C. C., & ^GCronin, 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., & ^PMatsukura, M. (2011). Eye movements and change detection. In S. P. Livsedge, 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

Continued: Departmental Colloquia

- 2019 Michigan State University, East Lansing, MI
- 2018 University of East Anglia, Norwich, United Kingdom
- 2016 Indiana University, Bloomington, IN
- 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

Dageforde, S., & Brockmole, J. R. (November, 2024). Decisions bias working memory precision for facial emotions. Poster presented at the 65th Annual Meeting of the Psychonomic Society. New York, NY.

Continued: Conference and Workshop Presentations

- Parra, D., Dageforde, S., Radvansky, G. A., & Brockmole, J. R. (November, 2024). The interaction of item and context in spontaneous autobiographical memories. Poster presented at the 65th Annual Meeting of the Psychonomic Society. New York, NY.
- Brockmole, J. R. (November 2023). The evolution of an idea: Eye movements in theory and application. Keynote address at the 31st 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 64th Annual Meeting of the Psychonomic Society. San Francisco, CA.
- 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 64th 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 44th 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 63rd 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 63rd 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 62nd 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 29th 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).

Continued: Conference and Workshop Presentations

- Vilanova-Goldstein, A., Huffman, G., & Brockmole, J. R. (November, 2020). Agency-driven biases in visual selective attention. Poster presented at the 28th 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 61st 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 60th Annual Meeting of the Psychonomic Society. Montreal, Ontario, Canada.
- Huffman, G., & Brockmole, J. R. (November, 2019). Visual attention is captured by controllable objects. Poster presented at the 60th 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 19th 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 59th 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 26th 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 59th 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 58th Annual Meeting of the Psychonomic Society. Vancouver, Canada.
- Krasich, K., McManus, R., Hutt, S., Faber, M., D'Mello, S. K., & Brockmole, J. R. (November, 2017). Gaze-based indices of mind wandering during real-world scene processing. Paper presented at the 25th 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 58th 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.

Continued: Conference and Workshop Presentations

- 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 24th annual Workshop on Object Perception, Attention, and Memory (OPAM). Boston, MA.
- Clement, A. S., & Brockmole, J. R. (November, 2016). Changes in observer location eliminate tool-based compression of distance. Poster presented at the 57th Annual Meeting of the Psychonomic Society. Boston, MA.
- McManus, R. Krasich, K., Brockmole, J. R., & D'Mello, S. K. (November, 2016). Eye movement patterns associated with mind wandering during real-world scene viewing. Poster presented at the 57th 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 23rd 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 56th 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 23rd 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 54th 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 54th 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 13th Annual Meeting of the Vision Sciences Society, Naples, FL.

Continued: Conference and Workshop Presentations

- Tatler, B. Brockmole, J. R., & Carpenter, R. (August, 2013). Saccadic decisions in scene viewing. Paper presented at the European Conference on Eye Movements (ECCEM). Lund, Sweden.
- Davoli, C. C., Thomas, L. E., & Brockmole, J. R. (November, 2012). Interaction compresses environmental representations in spatial memory. Paper presented at the 53rd 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 20th 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.
- 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 12th 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 12th 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 19th 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 52nd 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 34th 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 11th 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 11th 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 11th 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 11th Annual Meeting of the Vision Sciences Society, Naples, FL.

Continued: Conference and Workshop Presentations

- 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 11th 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 10th 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 10th 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 13th Cognitive Aging Conference, Atlanta, GA.
- 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 50th 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 49th 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 48th 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.

Continued: Conference and Workshop Presentations

- Brockmole, J. R., Castelhana, 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 46th 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 46th 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 46th Annual Meeting of the Psychonomic Society, Toronto, Ontario, Canada.
- 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 45th 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 4th 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 11th 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 44th 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 3rd 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 43rd 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 2nd 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 2nd 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 9th Annual Workshop on Object Perception and Memory, Orlando, FL.

Continued: Conference and Workshop Presentations

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 42nd 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 3rd International Conference on Memory, Valencia.

Brockmole, J. R., & Wang, R. F. (November, 2000). *Switching between environmental representations in memory*. Paper presented at the 8th Annual Workshop on Object Perception and Memory, New Orleans, LA.

Brockmole, J. R., Wang, R. F., & Irwin, D. E. (November, 2000). *Temporal integration between visual memory and perception*. Poster presented at the 41st 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 41st 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 72nd 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.

Continued: Post-Doctoral Fellows Mentored

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: 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, 2024. *The Effects of Agency on Attentional Control*. Univ. Notre Dame. Placement: Postdoctoral fellow, Institute for Scholarship in the Liberal Arts, University of 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.

Continued: Master's Thesis Supervision

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

James Walsh, Expected 2026. Project to be determined.

Kevin Jin, Expected 2025. *The Influence of Representational Momentum on Memory for Facial Emotions*. Placement: Pending.

Megan Schrimpf, Expected 2025. *The Effect of Object Frequency on the Speed of Search Through Visual Working Memory*. Funding: College of Science Summer Undergraduate Research Fellowship. Placement: Pending.

Caitlin Cunningham, 2024. *Source Attribution and the Processing of Visual Art and Text*. Funding: College of Science Summer Undergraduate Research Fellowship. Placement: Post-baccalaureate researcher, Vision & Cognitive Neuroscience Lab (Julie Golomb), Ohio State University.

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: University of Connecticut School of Medicine.

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)

Continued: Senior Thesis Supervision

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).

Emily Ehrman, 2013. *Hand Posture: Visual Attention and Learning*. University of Notre Dame. Internal Funding: Institute for Scholarship in the Liberal Arts (\$1,125). Published as: Davoli, C. C., O'Rear, C. D., McAulay (nee Ehrman), E., McNeil, N. M., & Brockmole, J. R. (2020). Hand position affects performance on multiplication tasks. *Journal of Numerical Cognition*, 6, 1-21. 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).

Continued: Senior Thesis Supervision

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

Jamie Trost, 2024. Cognition, Brain, & Behavior Program

Adam Vilanova-Goldstein, 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

Continued: Doctoral Committees

Jared Miller, 2013. Cognition, Brain, & Behavior Program
Adam Biggs, 2012. Cognition, Brain, & Behavior Program

Masters Committees:

Dani Parra, 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
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.

Continued: Academic Leadership

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

University Service

(Notre Dame unless otherwise noted)

Task Force on Neuroscience and Behavior Undergraduate Program; 2024 – Present.

Convener: Provost. Charge: To assess the NSBH major in its current state and make recommendations regarding the future of the program.

Neuroscience Task Force; 2024.

Convener: Provost. Charge: To develop a vision for excellence in neuroscience research across the College of Arts and Letters and College of Science

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.

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.

Continued: University Service

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

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)

Guest Editor: 1. 2017 Special Issue of *Journal of Experimental Psychology: Human Perception and Performance* commemorating 125 years (with S. Becker, M. Castelano, S. Creem-Regehr, J. Enns, R. Gray, H. Hecht, B. Juhász, 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: 2024 – Present, Publications Committee, Psychonomic Society
2013 – 2014 Strategic Plan Implementation Committee, Psychonomic Society