

CURRICULUM VITAE

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Academic Positions

- 2011 – Professor, The University of Iowa, Department of Psychological & Brain Sciences
Iowa City, IA
- 2006 – 2011 Associate Professor, The University of Iowa, Department of Psychology
Iowa City, IA
- 2002 – 2006 Assistant Professor, The University of Iowa, Department of Psychology
Iowa City, IA
- 2000 – 2002 Assistant Professor, Yale University, Department of Psychology
New Haven, CT

Education

- 2000 Ph.D., Michigan State University
Specialization: Cognitive Science
- 1992 Ed.M., Harvard University Graduate School of Education
Specialization: Teaching and Curriculum
- 1988 B.A. with Special Honors, The University of Chicago
Major: English Language and Literature

Research Interests

Goal-directed Vision: visual memory, attention, eye movements, scene perception

Awards and Honors

- 2007 Elected Fellow, American Psychological Association (Division 3)
- 2003 New Investigator Award, American Psychological Association Division of Experimental Psychology, for “Accurate visual memory for previously attended objects in natural scenes.” *Journal of Experimental Psychology: Human Perception and Performance*, 28, 113-136.
- 1996 National Science Foundation Graduate Research Fellowship
- 1996 Department of Defense National Defense Science and Engineering Graduate Fellowship (declined in favor of NSF fellowship)

Professional Activities and Affiliations

Current Editorial Positions

Editorial Board, *Journal of Experimental Psychology: General*, 2007 – present

Previous Editorial Positions

Associate Editor, *Cognition*, 2006 – 2015

Editorial Board, *Journal of Experimental Psychology: Human Perception and Performance*, 2004 – 2014

Editorial Board, *Attention, Perception, & Psychophysics*, 2006 – 2014

Editorial Board, *Psychological Science*, 2007 – 2011

Editorial Board, *Visual Cognition*, 2005 – 2008

Ad Hoc Reviewing: Journals

Acta Psychologica; *American Journal of Psychology*; *Behavioral and Brain Sciences*; *British Journal of Psychology*; *Canadian Journal of Experimental Psychology*; *Cognition*; *Cognitive Psychology*; *Cognitive Science*; *Current Directions in Psychological Science*; *European Journal of Cognitive Psychology*; *Experimental Psychology*; *Experimental Brain Research*; *Journal of Cognitive Neuroscience*; *Journal of Experimental Psychology: General*; *Journal of Experimental Psychology: Human Perception and Performance*; *Journal of Experimental Psychology: Learning, Memory, and Cognition*; *Journal of Vision*; *Memory & Cognition*; *Perception*; *Perception & Psychophysics*; *Philosophical Psychology*; *PLOS One*; *Proceedings of the National Academy of Sciences*; *Psychological Bulletin*; *Psychological Science*; *Psychology & Aging*; *Psychonomic Bulletin & Review*; *Quarterly Journal of Experimental Psychology*; *Vision Research*; *Visual Cognition*

Grant Reviewing

National Institutes of Health:

Cognition and Perception Study Section, permanent member, 2012 – 2016

Cognition and Perception Study Section, temporary member, 2007

National Science Foundation: Ad hoc reviewer

Other Reviewing

Oxford University Press

Sinauer Associates

Membership in Professional Organizations

American Psychological Society

Psychonomic Society (Member)

Vision Sciences Society

Miscellaneous

Organizer: *The 10th Annual Workshop on Object Perception and Memory*, 2002.

Co-chair: *Psychonomic Society Symposium on Visual Short-Term Memory*, 2004.

Publications

Refereed Journal Articles

Bahle, B., Beck, V. M., & Hollingworth, A. (in press). The architecture of interaction between visual working memory and visual attention. *Journal of Experimental Psychology: Human Perception and Performance*. [PDF](#)

Van der Stigchel, S., & Hollingworth, A. (in press). Visuo-spatial working memory as a fundamental component of the eye movement system. *Current Directions in Psychological Science*. [PDF](#)

Beck, V. M., Luck, S. J., & Hollingworth, A. (in press). Whatever you do, don't look at the... Evaluating guidance by an exclusionary attentional template. *Journal of Experimental Psychology: Human*

Perception and Performance. [PDF](#)

- Bahle, B., Matsukura, M., & Hollingworth, A. (in press). Contrasting gist-based and template-based guidance during real-world visual search. *Journal of Experimental Psychology: Human Perception and Performance.* [PDF](#)
- Beck, V. M., & Hollingworth, A. (2017). Competition in saccade target selection reveals attentional guidance by simultaneously active working memory representations. *Journal of Experimental Psychology: Human Perception and Performance*, *43*, 225-230. [PDF](#)
- Hollingworth, A., & Beck, V. M. (2016). Memory-based attention capture when multiple items are maintained in visual working memory. *Journal of Experimental Psychology: Human Perception and Performance*, *42*, 911-917. [PDF](#)
- Tas, A. C., Luck, S. J., & Hollingworth, A. (2016). The relationship between visual attention and visual working memory encoding: A dissociation between covert and overt orienting. *Journal of Experimental Psychology: Human Perception and Performance*, *42*, 1121-1138. [PDF](#)
- Beck, V. M., & Hollingworth, A. (2015). Evidence for negative feature guidance in visual search is explained by spatial recoding. *Journal of Experimental Psychology: Human Perception and Performance*, *41*, 1190-1196. [PDF](#)
- Hollingworth, A. (2015). Visual working memory modulates within-object metrics of saccade landing position. *Annals of the New York Academy of Sciences*, *1339*, 11-19. [PDF](#)
- Luck, S. J., McClenon, C., Beck, V. M., Hollingworth, A., Leonard, C. J., Hahn, B., Robinson, B. M., & Gold, J. M. (2014). Hyperfocusing in schizophrenia: Evidence from interactions between working memory and eye movements. *Journal of Abnormal Psychology*, *123*, 783-795. [PDF](#)
- Schneegans, S., Spencer, J. S., Schöner, G., Hwang, S., & Hollingworth, A. (2014). Dynamic interactions between visual working memory and saccade target selection. *Journal of Vision*, *14(11)*:9, 1-23. [PDF](#)
- Hollingworth, A., Matsukura, M., & Luck, S. J. (2013). Visual working memory modulates low-level saccade target selection: Evidence from rapidly generated saccades in the global effect paradigm. *Journal of Vision*, *13(13)*:4, 1-18. [PDF](#)
- Hollingworth, A., & Hwang, S. (2013). The relationship between visual working memory and attention: Retention of precise colour information in the absence of effects on perceptual selection. *Philosophical Transactions of the Royal Society B: Biological Sciences*, *368*, 1-9. [PDF](#)
- Hollingworth, A., & Maxcey-Richard, A. M. (2013). Selective maintenance in visual working memory does not require sustained visual attention. *Journal of Experimental Psychology: Human Perception and Performance*, *39*, 1047-1058. [PDF](#)
- Hollingworth, A., Matsukura, M., & Luck, S. J. (2013). Visual working memory modulates rapid eye movements to simple onset targets. *Psychological Science*, *24*, 790-796. [PDF](#)
- Maxcey-Richard, A. M., Hollingworth, A. (2013). The strategic retention of task-relevant objects in visual working memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *39*, 760-772. [PDF](#)
- Hollingworth, A. (2012). Task specificity and the influence of memory on visual search: Comment on Vö and Wolfe (2012). *Journal of Experimental Psychology: Human Perception and Performance*, *38*, 1596-1603. [PDF](#)
- Tas, A. C., Moore, C. M., & Hollingworth, A. (2012). An object-mediated updating account of insensitivity to transsaccadic change. *Journal of Vision*, *12(11)*: 18, 1-13. [PDF](#)
- Beck, V. M., Hollingworth, A., & Luck, S. J. (2012). Simultaneous control of attention by multiple working memory representations. *Psychological Science*, *23*, 887-898. [PDF](#)

- Hollingworth, A., Maxcey-Richard, A. M., & Vecera, S. P. (2012). The spatial distribution of attention within and across objects. *Journal of Experimental Psychology: Human Perception and Performance*, 38, 135-151. [PDF](#)
- Tas, A. C., Dodd, M. D., & Hollingworth, A. (2012). The role of surface feature continuity in object-based inhibition of return. *Visual Cognition*, 20, 29-47. [PDF](#)
- Hahn, B., Hollingworth, A., Robinson, B. M., Kaiser, S. T., Leonard, C. J., Beck, V. M., Kappenman, E. S., Luck, S. J., & Gold, J. M. (2012). Control of working memory content in schizophrenia. *Schizophrenia Research*, 134, 70-75. [PDF](#)
- Wisco, B. E., Treat, T. A., & Hollingworth, A. (2012). Visual attention to emotion in depression: Facilitation and withdrawal processes. *Cognition & Emotion*, 26, 602-614. [PDF](#)
- Gearhardt, A. N., Treat, T. A., Hollingworth, A., & Corbin, W. R. (2012). The relationship between eating-related individual differences and visual attention to foods high in added fat and sugar. *Eating Behaviors*, 13, 371-374. [PDF](#)
- Matsukura, M., & Hollingworth, A. (2011). Does visual short-term memory have a high-capacity stage? *Psychonomic Bulletin & Review*, 18, 1098-1104. [PDF](#)
- Mills, M., Hollingworth, A., Van der Stigchel, S., Hoffman, L., & Dodd, M. D. (2011). Examining the influence of task set on eye movements and fixations. *Journal of Vision*, 11, 1-15. [PDF](#)
- Brooks, D. I., Rasmussen, I. P., & Hollingworth, A. (2010). The nesting of search contexts within natural scenes: Evidence from contextual cuing. *Journal of Experimental Psychology: Human Perception and Performance*, 36, 1406-1418. [PDF](#)
- Hollingworth, A., Simons, D. J., & Franconeri, S. L. (2010). New objects do not capture attention without a sensory transient. *Attention, Perception, & Psychophysics*, 72, 1298-1310. [PDF](#)
- Hollingworth, A., & Rasmussen, I. P. (2010). Binding objects to locations: The relationship between object files and visual working memory. *Journal of Experimental Psychology: Human Perception and Performance*, 36, 543-564. [PDF](#)
- Hollingworth, A., & Franconeri, S. L. (2009). Object correspondence across brief occlusion is established on the basis of both spatiotemporal and surface feature cues. *Cognition*, 113, 150-166. [PDF](#)
- Hyun, J. -S., Woodman, G. F., Vogel, E. K., Hollingworth, A., & Luck, S. J. (2009). The comparison of visual working memory representations with perceptual inputs. *Journal of Experimental Psychology: Human Perception and Performance*, 35, 1140-1160. [PDF](#)
- Hollingworth, A., Luck, S. J. (2009). The role of visual working memory in the control of gaze during visual search. *Attention, Perception, & Psychophysics*, 71, 936-949. [PDF](#)
- Dodd, M. D., Van der Stigchel, S., & Hollingworth, A. (2009). Novelty is not always the best policy: Inhibition of return and facilitation of return as a function of visual task. *Psychological Science*, 20, 333-339. [PDF](#)
- Hollingworth (2009). Two forms of scene memory guide visual search: Memory for scene context and memory for the binding of target object to scene location. *Visual Cognition*, 17, 273-291. [PDF](#)
- Richard, A. M., Luck, S. J., & Hollingworth, A. (2008). Establishing object correspondence across eye movements: Flexible use of spatiotemporal and surface feature information. *Cognition*, 109, 66-88. [PDF](#)
- Hollingworth, A., Richard, A. M., & Luck, S. J. (2008). Understanding the function of visual short-term memory: Transsaccadic memory, object correspondence, and gaze correction. *Journal of Experimental Psychology: General*, 137, 163-181. [PDF](#)
- Johnson, J. S., Hollingworth, A., & Luck, S. J. (2008). The role of attention in the maintenance of feature bindings in visual short-term memory. *Journal of Experimental Psychology: Human Perception and*

- Performance*, 34, 41-55. [PDF](#)
- Weierich, M. R., Treat, T. A., & Hollingworth, A. (2008). Theories and measurement of visual attentional processing in anxiety. *Cognition & Emotion*, 22, 985-1018. [PDF](#)
- Hollingworth, A. (2007). Object-position binding in visual memory for natural scenes and object arrays. *Journal of Experimental Psychology: Human Perception and Performance*, 33, 31-47. [PDF](#)
- Hollingworth, A. (2006). Visual memory for natural scenes: Evidence from change detection and visual search. *Visual Cognition*, 14, 781-807. [PDF](#)
- Hollingworth, A. (2006). Scene and position specificity in visual memory for objects. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 32, 58-69. [PDF](#)
- Hollingworth, A. (2005). The relationship between online visual representation of a scene and long-term scene memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 31, 396-411. [PDF](#)
- Hollingworth, A., Hyun, J. -S., & Zhang, W. (2005). The role of visual short-term memory in empty cell localization. *Perception & Psychophysics*, 67, 1332-1343. [PDF](#)
- Franconeri, S. L., Hollingworth, A., & Simons, D. J. (2005). Do new objects capture attention? *Psychological Science*, 16, 275-281. [PDF](#)
- Hollingworth, A. (2005). Memory for object position in natural scenes. *Visual Cognition*, 12, 1003-1016. [PDF](#)
- Hollingworth, A. (2004). Constructing visual representations of natural scenes: The roles of short- and long-term visual memory. *Journal of Experimental Psychology: Human Perception and Performance*, 30, 519-537. [PDF](#)
- Hollingworth, A., & Henderson, J. M. (2004). Sustained change blindness to incremental scene rotation: A dissociation between explicit change detection and visual memory. *Perception & Psychophysics*, 66, 800-807. [PDF](#)
- Hollingworth, A. (2003). Failures of retrieval and comparison constrain change detection in natural scenes. *Journal of Experimental Psychology: Human Perception and Performance*, 29, 388-403. [PDF](#)
- Hollingworth, A., & Henderson, J. M. (2003). Testing a conceptual locus for the inconsistent object change detection advantage in real-world scenes. *Memory & Cognition*, 31, 930-940. [PDF](#)
- Henderson, J. M., & Hollingworth, A. (2003). Global transsaccadic change blindness during scene perception. *Psychological Science*, 14, 493-497. [PDF](#)
- Henderson, J. M., & Hollingworth, A. (2003). Eye movements and visual memory: Detecting changes to saccade targets in scenes. *Perception & Psychophysics*, 65, 58-71. [PDF](#)
- Hollingworth, A., & Henderson, J. M. (2002). Accurate visual memory for previously attended objects in natural scenes. *Journal of Experimental Psychology: Human Perception and Performance*, 28, 113-136. [PDF](#)
- Hollingworth, A., Williams, C. C., & Henderson, J. M. (2001). To see and remember: Visually specific information is retained in memory from previously attended objects in natural scenes. *Psychonomic Bulletin & Review*, 8, 761-768. [PDF](#)
- Hollingworth, A., Schrock, G., & Henderson, J. M. (2001). Change detection in the flicker paradigm: The role of fixation position within the scene. *Memory & Cognition*, 29, 296-304. [PDF](#)
- Christianson, K., Hollingworth, A., Halliwell, J., & Ferreira, F. (2001). Thematic roles assigned along the garden path linger. *Cognitive Psychology*, 42, 368-407. [PDF](#)
- Ferreira, F., Christianson, K., & Hollingworth, A. (2001). Misinterpretations of garden-path sentences:

Implications for models of sentence processing and reanalysis. *Journal of Psycholinguistic Research*, 30, 3-20. [PDF](#)

Hollingworth, A., & Henderson, J. M. (2000). Semantic informativeness mediates the detection of changes in natural scenes. *Visual Cognition*, 7, 213-235. [PDF](#)

Hollingworth, A., & Henderson, J. M. (1999). Object identification is isolated from scene semantic constraint: Evidence from object type and token discrimination. *Acta Psychologica*, 102, 319-343. [PDF](#)

Henderson, J. M., & Hollingworth, A. (1999). The role of fixation position in detecting scene changes across saccades. *Psychological Science*, 10, 438-443. [PDF](#)

Henderson, J. M., Weeks, P. A., Jr., & Hollingworth, A. (1999). The effects of semantic consistency on eye movements during complex scene viewing. *Journal of Experimental Psychology: Human Perception and Performance*, 25, 210-228. [PDF](#)

Hollingworth, A., & Henderson, J. M. (1998). Does consistent scene context facilitate object perception? *Journal of Experimental Psychology: General*, 127, 398-415. [PDF](#)

Edited Books

Luck, S. J., & Hollingworth, A. (2008). *Visual Memory*. New York: Oxford University Press.

Book Chapters

Hollingworth, A. (2012). Guidance of visual search by memory and knowledge. In M. D. Dodd & J. H. Flowers (Eds.), *The Influence of Attention, Learning, and Motivation on Visual Search*, Nebraska Symposium on Motivation (pp. 63-89). New York: Springer. [PDF](#)

Hollingworth, A. (2008). Visual memory for natural scenes. In S. J. Luck & A. Hollingworth (Eds.), *Visual Memory* (pp. 123-162). New York: Oxford University Press. [PDF](#)

Hollingworth, A., & Luck, S. J. (2008). An overview of visual memory. In S. J. Luck & A. Hollingworth (Eds.), *Visual Memory* (pp. 3-8). New York: Oxford University Press. [PDF](#)

Hollingworth, A. (2008). Memory for real-world scenes. In J. R. Brockmole (Ed.), *The Visual World in Memory* (pp. 89-116). New York: Psychology Press. [PDF](#)

Henderson, J. M., & Hollingworth, A. (2003). Eye movements, visual memory, and scene representation. In M. A. Peterson & G. Rhodes (Eds.), *Perception of faces, objects, and scenes: Analytic and holistic processes* (pp. 356-383). New York: Oxford University Press. [PDF](#)

Henderson, J. M., & Hollingworth, A. (1999). High-level scene perception. *Annual Review of Psychology*, 50, 243-271. [PDF](#)

Henderson, J. M., & Hollingworth, A. (1998). Eye movements during scene viewing: An overview. In G. Underwood (Ed.), *Eye guidance in reading and scene perception* (pp. 269-283). Oxford, England: Elsevier. [PDF](#)

Commentaries

Hollingworth, A. & Henderson, J. M. (1999). Vision and cognition: Drawing the line. *Behavioral & Brain Sciences*, 22, 380-381. [PDF](#)

Published Conference Proceedings

Bahle, B., & Hollingworth, A. (2016). Contrasting gist-based and feature-based guidance during real-world search. *Journal of Vision*, 16 (12), 347-347.

- Beck, V. M., Leonard, C. M., Robinson, B. M., Hahn, B., Hollingworth, A., Gold, J. M., Luck, S. J. (2016). People with schizophrenia demonstrate more optimal feature-guided visual search in a probabilistic search task. *Journal of Vision*, 16 (12), 338-338.
- Hollingworth, A., & Beck, V. M. (2015). Guidance of attention by multiple feature values in visual working memory. *Journal of Vision*, 15 (12), 1363-1363.
- Beck, V. M., & Hollingworth, A. (2015). Attentional guidance by simultaneously active working memory representations: Evidence from competition in saccade target selection. *Perception*, 44 (supplement 1), 284-285.
- Tas, A. C., & Hollingworth, A. (2015). The role of visual stability in representations of pre- and post-saccadic objects. *Perception*, 44 (supplement 1), 271.
- Beck, V. M., & Hollingworth, A. (2014). Can attention be guided efficiently by a negative template? *Journal of Vision*, 14, 1040-1040.
- Tas, A. C., Moore, C. M., & Hollingworth, A. (2014). The representation of the saccade target object depends on visual stability. *Visual Cognition*, 22, 1042-1046.
- Hein, E., Hollingworth, A., Moore, C. M. (2013). The influence of visual working memory on correspondence in the Ternus display. *Journal of Vision* 13 (9), 61-61.
- Hollingworth, A. Hwang, S., & Luck, S. J. (2013). The influence of saccade execution on spatial working memory precision. *Journal of Vision* 13 (9), 1351-1351.
- Template-based guidance in visual search is independent of influence from properties of currently or recently fixated objects. *Journal of Vision* 13 (9), 532-532.
- Hwang, S., & Hollingworth, A. (2012). The reliance on ensemble statistics in VWM varies according to the quality of item memory. *Journal of Vision*, 12 (9), 352-352.
- Tas, A. C., Luck, S. J., & Hollingworth, A. (2012). Saccade execution, not covert attention, leads to automatic encoding of distractors into VWM. *Journal of Vision*, 12 (9), 852-852.
- Tas, A. C., Luck, S. J., & Hollingworth, A. (2011). The automatic encoding of distractors into visual working memory through overt, but not covert attention. *Visual Cognition*, 19, 1331-1335.
- Schneegans, S., Spencer, J. P., Hollingworth, A., & Schöner, G. (2011). Dynamic interactions between visual working memory and saccade planning. *Frontiers in Computational Neuroscience*.
- Dodd, M. D., Mills, M., Van der Stigchel, S., & Hollingworth, A. (2011). Examining the influence of scene manipulations and task instruction on scanpaths and inhibition of return. *Journal of Vision*, 11 (11), 481-481.
- Beck, V. M., Luck, S. J., & Hollingworth, (2011). The implementation of an exclusionary attentional template: direct versus indirect cueing. *Journal of Vision* 11 (11), 1309-1309.
- Tas, A. C., Moore, C. M., & Hollingworth, A. (2011). The role of surface feature information in object persistence across saccades. *Journal of Vision*, 11 (11), 519-519.
- Matsukura, M., & Hollingworth, A. (2011). How does object structure influence saccade targeting within an object? *Journal of Vision*, 11 (11), 487-487.
- Mills, M., Hollingworth, A., Van der Stigchel, S., Hoffman, L., Dodd, M. D. (2011). Examining the influence of task set on eye movements and fixations. *Journal of Vision*, 11 (8), 17-17.
- Tas, A. C., Dodd, M. D., & Hollingworth, A. (2010). The interaction of surface feature and spatiotemporal continuity in object-based inhibition of return. *Visual Cognition*, 18, 141-144.
- Chen, H., Anderson, D. E., Hollingworth, A., Vecera, S., & Moore, C. M. (2010). visual working memory content modulates competition in binocular rivalry. *Journal of Vision*, 10 (7), 352-352.

- Tas, A. C., Dodd, M. D., & Hollingworth, A. (2010). The role of surface feature and spatiotemporal continuity in object-based inhibition of return. *Journal of Vision, 10* (7), 178-178.
- Matsukura, M., Luck, S. J., & Hollingworth, A. (2010). Which features of an object are stored in visual working memory across a saccade? Evidence from visual search. *Journal of Vision, 10* (7), 724-724.
- Spencer, J. S., Schneegans, S., & Hollingworth, A. (2010). Dynamic interactions between visual working memory and saccade planning. *Journal of Vision, 10* (7), 537-537,
- Hollingworth, A., Matsukura, M., & Luck, S. J. (2010). Visual working memory influences the speed and accuracy of simple saccadic eye movements. *Journal of Vision, 10* (7), 550-550.
- Hollingworth, A., & Luck, S. J. (2009). The role of visual working memory in establishing object correspondence across saccades. *Journal of Vision, 9* (8), 414-414.
- Williams, C.C., Hollingworth, A., & Henderson, J. M. (2000). Scene context and change blindness: Memory mediates change detection. Proceedings of the Twenty-Second annual conference of the Cognitive Science Society (p. 1068). Mahwah, NJ: Erlbaum.

Reprinted Papers

- Hollingworth, A. (2006). Visual memory for natural scenes: Evidence from change detection and visual search. In H. J. Muller & J. Krummenacher (Eds.) *Visual Search and Attention* (pp. 781-807). Psychology Press. [Reprint of Hollingworth, A. (2006). Visual memory for natural scenes: Evidence from change detection and visual search. *Visual Cognition, 14*, 781-807.]
- Hollingworth, A. (2005). Memory for object position in natural scenes. In J. M. Henderson (Ed.), *Real-World Scene Perception* (pp. 1003-1016). Philadelphia, PA: Psychology Press. [Reprint of: Hollingworth, A. (2005). Memory for object position in natural scenes. *Visual Cognition, 12*, 1003-1016.]
- Hollingworth, A., & Henderson, J. M. (2000). Semantic informativeness mediates the detection of changes in natural scenes. In D. J. Simons (Ed.), *Change Blindness and Visual Memory* (pp. 213-235). Philadelphia, PA: Psychology Press. [Reprint of: Hollingworth, A., & Henderson, J. M. (2000). Semantic informativeness mediates the detection of changes in natural scenes. *Visual Cognition, 7*, 213-235.]

Other Publications

- Hollingworth, A. (1998). Stevens' rivers and rocks: Motions to the center. *Wallace Stevens Journal, 22*, 39-56.
- Ffrench-constant, C., Hollingworth, A., Heasman, J., & Wylie, C. C. (1991). Response to fibronectin of mouse primordial germ-cells before, during and after migration. *Development, 113*, 1365-1373.

Invited Presentations and Colloquia

- The Guidance of Visual Attention and Gaze by Visual Working Memory*. Seventh Bernstein Sparks Workshop on Active Perceptual Memory. Humboldt University, Berlin, Germany, October 2015.
- The Guidance of Eye Movements by Visual Working Memory*. Department of Psychology, Iowa State University, April 2014.
- Implementing Positive and Exclusionary Templates during Visual Search*. ZIF Research Group: Competitive Visual Processing across Space and Time: Interactions with Memory. Bielefeld, Germany, March 2014.
- The Guidance of Eye Movements by Visual Working Memory*. Center for Neuroengineering and Cognitive Science and the Department of Electrical & Computer Engineering, University of Houston, February 2014.

The Guidance of Eye Movements by Visual Working Memory. Institute of Neuroscience, University of Oregon, October 2013.

The Guidance of Visual Search by Knowledge and Memory. Department of Psychology, University of Copenhagen, Copenhagen, Denmark, August 2013.

The Guidance of Visual Search by Knowledge and Memory. ZIF Research Group, University of Bielefeld, Bielefeld, Germany, June 2013.

Testing the Influence of Attentional Distraction on the Precision of Spatial Working Memory. Minisymposium on Working Memory and Attention. Vrije Universiteit Amsterdam, The Netherlands, May 2013.

The Relation between Visual Attention and Visual Working Memory. University of Rochester, Center for Visual Science, Boynton Colloquium Series, April, 2013.

The Role of Visual Attention in VWM and SPWM Maintenance. University of California, Davis, Center for Mind and Brain, February, 2013.

Choosing to remember: Selection in VWM does not depend on sustained attention. ZIF Research Group: Linking Selection for Visual Perception, Memory, and Action. Bielefeld, Germany, October 2012.

Interactions between visuo-spatial memory and saccade target selection during scene perception and search. Symposium in Honor of Alan Kennedy: Spatial Coding and Eye-movement Control. 16th European Conference on Eye Movements, Marseille, France, August 2011.

Encoding the saccade target object into visual working memory. Symposium: Binding in Working Memory, 5th International Conference on Memory, York University, UK, August 2011.

Interactions between visual working memory and saccade target selection during search. 59th Nebraska Symposium on Motivation: The Influence of Attention, Learning, and Motivation on Visual Search, University of Nebraska, Lincoln, Department of Psychology, to be presented April 2011.

(1) *The visual representation of natural scenes* (2) *The role of visual working memory in establishing object correspondence across saccades* (3) *The functional role of visual working memory in scene viewing.* Series of three Keynote Speaker addresses. 14th Workshop on Attention and Perception, National Chung Cheng University. Chiayi, Taiwan, June 2009.

The role of visual working memory in establishing object correspondence across saccades and brief occlusion. Vanderbilt University, Department of Psychology, October 2008.

The role of visual short-term memory in eye movement control. New Fellow Symposium, American Psychological Association 116th Annual Convention, Boston, August 2008.

Visual memory for natural scenes. Distinguished Speaker. Seventh Tsukuba International Conference on Memory: Visual Memory. Tsukuba, Japan, March 2008.

The visual representation of natural scenes. Keynote Speaker. The Horizons of Vision Research Conference. Center for Cognitive Science, California State University Long Beach, March 2008.

The visual representation of natural scenes. Massachusetts Institute of Technology, Department of Psychology, October 2007.

The role of eye movements in scene perception and memory. Keynote Speaker. Cognitive Science Workshop: What have eye movements told us so far, and what is next? Annual Meeting of the Cognitive Science Society, Vancouver, BC. July 2006.

The role of visual short-term memory in the representation of natural scenes. Symposium on Visual Short-Term Memory for Features and Objects, Annual Meeting of the Psychonomic Society, Minneapolis, MN. November 2004.

The structure of scene representations. Symposium on the Visual Cognition of Natural Scenes, Annual Meeting of the Psychonomic Society, Vancouver, BC. November 2003.

Visual memory and the online representation of complex scenes. Munich Visual Search Symposium, Munich, Germany. June 2003.

Short- and long-term memory contributions to the online visual representation of natural scenes. The University of Illinois, Department of Psychology. March 2003.

Scene perception: Eye movements, attention, and visual memory. The University of Iowa, Department of Psychology. February 2002.

Scene perception: Eye movements, attention, and visual memory. Yale University, Center for Computational Vision and Control Lunch Series. January 2002.

The representation of natural scenes: Eye movements, attention, and visual memory. University of Massachusetts Amherst, Five College Seminar in Cognitive Science. March 2001.

The representation of natural scenes: Eye movements, attention, and visual memory. Yale University, Club Neurobiology Seminar. February 2001.

Change blindness and long-term scene memory. Yale University, Department of Psychology. January 2000.

Objects in real-world scenes: issues of identification and short-term memory. Harvard University, Vision Sciences Laboratory. May 1999.

Conference Presentations

Beck, V. M., Bahle, B., & Hollingworth, A., (2016). The guidance of attention by multiple items in visual working memory. Paper presented at the Annual Meeting of the Psychonomic Society, Boston, MA.

Bahle, B., Hollingworth, A., & Beck, V. M. (2016). The architecture of interaction between visual working memory and visual attention. Poster presented at the 24th Annual Workshop on Object Perception, Attention, and Memory, Boston, MA.

Beck, V. M., Leonard, C. J., Robinson, B. M., Hahn, B., Hollingworth, A., Gold, J. M., & Luck, S. J. (2016). People with schizophrenia demonstrate more optimal feature-guided visual search in a probabilistic search task. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.

Bahle, B., & Hollingworth, A. (2016). Contrasting gist-based and feature-based guidance during real-world search. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.

Tas, A. C., & Hollingworth, A. (2015). The representation of the saccade target object depends on visual stability. Poster presented at the Seventh Bernstein Sparks Workshop on Active Perceptual Memory, Berlin, Germany.

Beck, V. M., & Hollingworth, A. (2015). Attentional guidance by simultaneously active working memory representations: Evidence from competition in saccade target selection. Paper presented at the European Conference on Visual Perception, Liverpool, UK.

Tas, A. C., & Hollingworth, A. (2015). The role of visual stability in representations of pre- and post-saccadic objects. Paper presented at the European Conference on Visual Perception, Liverpool, UK.

Beck, V. M., & Hollingworth, A. (2015). Attentional guidance by simultaneously active working memory representations: Evidence from competition in saccade target selection. Paper presented at the European Conference on Eye Movements, Vienna, Austria.

Hollingworth, A., & Beck, V. M. (2015). Guidance of attention by multiple feature values in visual working memory. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.

- Tas, A. C., Moore, C. M., & Hollingworth, A. (2014). The representation of the saccade target object depends on visual stability. Paper presented at the 22nd Annual Workshop on Object Perception, Attention, and Memory, Long Beach, CA.
- Beck, V. M., & Hollingworth, A. (2014). Template representations are buffered from perceptual and memorial interference during search. Poster presented at the 22nd Annual Workshop on Object Perception, Attention, and Memory, Long Beach, CA.
- Treat, T. A., & Hollingworth, A. (2014). Links between visual attention, craving, and consumption of unhealthy vs healthy food. Poster presented at the 2014 APS Annual Convention, San Francisco.
- Beck, V. M., & Hollingworth, A. (2014). Can attention be guided efficiently by a negative template? Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Tas, A. C., & Hollingworth, A. (2014). The role of visual stability in the representation of the saccade target object. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Hwang, S., & Hollingworth, A. (2013). The influence of saccade execution on spatial working memory precision. Paper presented at the Annual Meeting of the Psychonomic Society, Toronto, Canada.
- Tas, A. C., & Hollingworth, A. (2013). Automatic encoding of the saccade target into visual working memory. Paper presented at the 17th European Conference on Eye Movements, Lund, Sweden.
- Hwang, S., & Hollingworth, A. (2013). The influence of saccade execution on spatial working memory precision. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Hein, E., Hollingworth, A., & Moore, C. M. (2013). The influence of visual working memory on correspondence in the Ternus display. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Hein, E., Hollingworth, A., & Moore, C. M. (2013). The influence of visual short-term memory content on object correspondence. Poster presented at the 55th TEAP meeting, Vienna, Austria.
- Hollingworth, A., & Maxcey-Richard, A. M. (2012). Selection in visual working memory does not require sustained visual attention. Paper presented at the Annual Meeting of the Psychonomic Society, Minneapolis, MN.
- Beck, V. M., Hollingworth, A., & Luck, S. J. (2012). Simultaneous control of attention by multiple working memory representations. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Hwang, S., & Hollingworth, A. (2012). The reliance on ensemble statistics in VWM varies according to the quality of item memory. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Tas, A. C., Luck, S. J., & Hollingworth, A. (2012). Saccade execution, not covert attention, leads to automatic encoding of distractors into VWM. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Hollingworth, A., and Matsukura, M. (2011). Visual working memory content biases the allocation of gaze during search through natural scenes. Paper presented at the Annual Meeting of the Psychonomic Society, Seattle, WA.
- Tas, A. C., Luck, S. J., & Hollingworth, A. (2011). The automatic encoding of distractors into VWM through overt, but not covert attention. Paper presented at the 19th Annual Workshop on Object Perception, Attention, and Memory, Seattle, WA.
- Beck, V. M., Hollingworth, A., & Luck, S. J. (2011). Visual search is guided by multiple active templates in visual working memory. Poster presented at the 19th Annual Workshop on Object Perception, Attention, and Memory, Seattle, WA.

- Gearhardt, A. N., Treat, T. A., & Hollingworth, A. (2011). The relation between eating-related individual differences and attentional biases for high fat and high sugar foods. Poster presented at the 2011 APS Annual Convention, Washington, DC.
- Tas, A. C., Moore, C. M., & Hollingworth, A. (2011). The role of surface feature information in object persistence across saccades. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Beck, V. M., Luck, S. J., & Hollingworth, A. (2011). The implementation of an exclusionary attentional template: Direct versus indirect cueing. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Matsukura, M., & Hollingworth, A. (2011). How does object structure influence saccade targeting within an object? Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Dodd, M. D., Mills, M., Van der Stigchel, S., & Hollingworth, A. (2011). Examining the influence of scene manipulations and task instruction on scanpaths and inhibition of return. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Schneegans, S., Spencer, J. P., Hollingworth, A., & Schöner, G. (2011). Dynamic interactions between visual working memory and saccade planning. Paper presented at the Bernstein Conference 2011: Computational Neuroscience / Neurotechnology and Neurex Annual Meeting, Freiburg, Germany.
- Beck, V. M., Luck, S. J., & Hollingworth, A. (2010). Whatever you do, don't look at the... Exploring the parameters of an exclusionary attentional template. Paper presented at the 18th Annual Workshop on Object Perception, Attention, and Memory, St Louis, MO.
- Matsukura, M., & Hollingworth, A. (2010). Visual short-term memory capacity: Disconfirming the hypothesis of an early, high-capacity store. Poster presented at the Annual Meeting of the Psychonomic Society, St. Louis, MO.
- Tas, A. C., Moore, C. M., & Hollingworth, A. (2010). Object persistence across saccades is influenced by surface feature consistency. Poster presented at the Annual Meeting of the Psychonomic Society, St. Louis, MO.
- Mills, M., Van der Stigchel, S., Hollingworth, A., & Dodd, M. D. (2010). Examining the influence of task set on eye movements and fixation. Poster presented at the Annual Meeting of the Psychonomic Society, St. Louis, MO.
- Hollingworth, A., Matsukura, M., & Luck, S. J. (2010). Visual working memory influences the speed and accuracy of simple saccadic eye movements. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Matsukura, M., Luck, S. J., & Hollingworth, A. (2010). Which features of an object are stored in visual working memory across a saccade? Evidence from visual search. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Spencer, J. P., Schneegans, S., & Hollingworth, A. (2010). Dynamic interactions between visual working memory and saccade planning. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Tas, A. C., Dodd, M. D., & Hollingworth, A. (2010). The role of surface feature and spatiotemporal continuity in object-based inhibition of return. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Tas, A. C., Dodd, M. D., & Hollingworth, A. (2009). The interaction of surface feature and spatiotemporal continuity in object-based inhibition of return. Paper presented at the 17th Annual Workshop on Object Perception, Attention, and Memory, Boston, MA.

- Richard, A. M., & Hollingworth, A. (2009). Strategic elimination of objects from visual working memory. Paper presented at the Annual Meeting of the Psychonomic Society, Boston, MA.
- Hollingworth, A. & Luck, S. J. (2009). The role of visual working memory in establishing object correspondence across saccades. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Richard, A. M., & Hollingworth, A. (2008). Strategic control of visual short-term memory during scene viewing. Paper presented at the Annual Meeting of the Psychonomic Society, Chicago, IL.
- Rasmussen, I. P., & Hollingworth, A. (2008). The capacity for spatial updating in visual short-term memory. Poster presented at the 16th Annual Workshop on Object Perception, Attention, and Memory, Chicago, IL.
- Brooks, D. I., Rasmussen, I. P., & Hollingworth, A. (2008). The interaction between global and local scene features in contextual cueing. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Rasmussen, I. P., & Hollingworth, A. (2008). The capacity for spatial updating in visual short-term memory. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Richard, A. M., & Hollingworth, A. (2008). Strategic control of visual short-term memory during scene viewing. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Dodd, M., Van Der Stigchel, S., Hollingworth, A., & Kingstone, A. (2008). Examining scanpaths and inhibition of return as a function of task instruction during scene viewing. Poster presented at the Annual Meeting of the Vision Sciences Society, Naples, FL.
- Wisco, B. E., Treat, T. A., & Hollingworth, A. (2008). Depression-linked differences in attention to emotion. Poster presented at the Annual Meeting of the Association for Psychological Science, Chicago, IL.
- Brooks, D. I., Rasmussen, I. P., Hollingworth, A., and Wasserman, E. A. (2008). Contextual cueing in the pigeon. Poster presented at the Annual International Conference on Comparative Cognition, Melbourne Beach, FL.
- Hollingworth, A., & Franconeri, S. L. (2007). The role of surface features in establishing object correspondence across motion and occlusion. Paper presented at the Annual Meeting of the Psychonomic Society, Long Beach, CA.
- Hollingworth, A., & Rasmussen, I. P. (2007). The binding of objects to locations in visual short-term memory. Paper presented at the Annual Meeting of the Experimental Psychology Society, Edinburgh, UK.
- Hollingworth, A., & Rasmussen, I. P. (2007). The binding of objects to locations in visual short-term memory. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Richard, A. M., Vecera, S. P., & Hollingworth, A. (2007). The role of object discontinuity in object-based selection. Poster presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Richard, A. M., Hollingworth, A., & Luck, S. J. (2006). Testing an object file theory of object correspondence across saccades. Poster presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Hollingworth, A., & Sacks, D. L. (2006). The updating of object-position binding in visual short-term memory. Poster presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Weierich, M.R., Treat, T.A., & Hollingworth, A. (2006). Spatial attentional processing of visual threat stimuli in specific phobia: Disengagement, object-based habituation, and failure of transfer. Poster presented at the Annual Meeting of the Association for Behavioral and Cognitive Therapies, Chicago,

IL.

- Weierich, M.R., Treat, T.A., & Hollingworth, A. (2006). Phobics' spatial attentional processing of threat reflects disengagement deficit, not enhanced orienting. Poster presented at the Annual Meeting of the Association for Psychological Science, New York, NY.
- Hollingworth, A., Richard, A. M., & Luck, S. J. (2005). The role of visual short-term memory in gaze control. Talk presented at the Annual Meeting of the Psychonomic Society, Toronto.
- Vecera, S. P., Richard, A. M., & Hollingworth, A. (2005). The spatial distribution of object-based attention. Talk presented at the Annual Meeting of the Psychonomic Society, Toronto.
- Luck, S. J., Lin, P. H., & Hollingworth, A. (2005). Similarity and interference in visual working memory. Talk presented at the Annual Meeting of the Psychonomic Society, Toronto.
- Hollingworth, A. (2005). Preserved memory for scene brightness following an undetected change. Talk presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Sacks, D. L., & Hollingworth, A. (2005). Attending to original object location facilitates visual memory retrieval. Poster presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Richard, A. M., Hollingworth, A., & Vecera, S. P. (2005). The spatial distribution of object-based attention. Poster presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Johnson, J. S., Hollingworth, A., & Luck, S. J. (2005). The role of attention in binding features in visual working memory. Poster presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Lin, P. H., Hollingworth, A., & Luck, S. J. (2005). Similarity does not produce interference between visual working memory representations. Poster presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Hollingworth, A. (2004). The role of visual short-term memory in the representation of natural scenes. Talk presented at the Annual Meeting of the Psychonomic Society, Minneapolis, MN.
- Johnson, J. S., Hollingworth, A., & Luck, S. J. (2004). The role of attention in binding features in visual working memory. Poster presented at the Annual Meeting of the Psychonomic Society, Minneapolis, MN.
- Hollingworth, A. (2004). Memory guides search in natural scenes. Talk presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Lin, P. H., Hollingworth, A., & Luck, S. J. (2004). Similarity and interference in visual working memory. Poster presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Weierich, M.R., Treat, T.A., & Hollingworth, A. (2004). The role of spatial attention in specific phobia. Poster presented at the meeting of the Association for the Advancement of Behavior Therapy, New Orleans, LA.
- Hollingworth, A. (2003). The structure of scene representations. Talk presented at the Annual Meeting of the Psychonomic Society, Vancouver, BC.
- Franconeri, S. L., Hollingworth, A., & Simons, D. J. (2003). Do new objects capture attention? Talk presented at the 11th Annual Workshop on Object Perception, Attention and Memory, Vancouver, BC.
- Hollingworth, A. (2003). Short- and long-term memory contributions to the online visual representation of natural scenes. Poster presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Hollingworth, A. & Henderson, J. M. (2002). Sustained insensitivity to incremental scene rotation: A dissociation between explicit change detection and visual memory. Talk presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Hollingworth, A. (2001). The relationship between change detection and visual memory: Evidence from

- target postcuing. Poster presented at the Annual Meeting of the Psychonomic Society, Orlando, FL.
- Hollingworth, A., & Henderson, J. M. (2000). Neither change blindness nor amnesia: Accurate memory for previously attended objects in natural scenes. Poster presented at the Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Williams, C. C., Hollingworth, A., & Henderson, J. M. (2000). Scene context and change blindness: Memory mediates change detection. Poster presented at the Annual Meeting of the Cognitive Science Society, Philadelphia, PA.
- Falk, R. J., Hollingworth, A., Henderson, J. M., Mahadevan, S., & Dyer, F. C. (2000). Eye movements in human face learning and recognition. Poster presented at the Annual Meeting of the Cognitive Science Society, Philadelphia, PA.
- Ferreira, F., Christianson, K., & Hollingworth, A. (2000). Misinterpretations of garden-path sentences. Paper presented at the Annual C.U.N.Y Conference, La Jolla, CA.
- Hollingworth, A., & Henderson, J. M. (1999). Transsaccadic change blindness and long-term scene memory. Paper presented at the 7th Annual Workshop on Object Perception and Memory, Los Angeles, CA.
- Henderson, J. M., Hollingworth, A., & Subramanian, A. N. (1999). The retention and integration of scene information across saccades: A global change blindness effect. Paper presented at the Annual Meeting of the Psychonomic Society, Los Angeles, CA.
- Christianson, K., Hollingworth, A., & Ferreira, F. (1999). Theta-roles assigned along the garden path linger, part 2. Paper presented at the Annual Meeting of the Psychonomic Society, Los Angeles, CA.
- Hollingworth, A., & Henderson, J. M. (1998). The role of eye movements in detecting changes to scenes in the flicker paradigm. Poster presented at the Annual Meeting of the Psychonomic Society, Dallas, TX.
- Hollingworth, A., Christianson, K., Halliwell, J., & Ferreira, F. (1998). Theta-roles assigned along the garden path linger. Poster presented at the Annual Meeting of the Psychonomic Society, Dallas, TX.
- Henderson, J. M., & Hollingworth, A. (1998). Insensitivity to scene changes across saccades. Paper presented at the Annual Meeting of the Psychonomic Society, Dallas, TX.
- Hollingworth, A., & Henderson, J. M. (1997). The influence of scene context on object perception. Paper presented at the 5th Annual Workshop on Object Perception and Memory, Philadelphia, PA.
- Hollingworth, A., & Henderson, J. M. (1997). Object identification in scenes: Evidence against schema-driven perception. Paper presented at the Annual Meeting of the Midwestern Psychological Association, Chicago, IL.
- Lauwereyns, J., Hollingworth, A., & Henderson, J. M. (1997). Effects of real-world scenes on the control of visual-spatial attention. Paper presented at the Annual Meeting of the Midwestern Psychological Association, Chicago, IL.
- Henderson, J. M., Hollingworth, A., & Weeks, P. A., Jr. (1996). The effects of scene context on object perception. Paper presented at the Scene Perception Workshop, Max Plank Institute fur Biologische Kybernetic, Tubingen, Germany.
- Henderson, J. M., Weeks, P. A., Jr., & Hollingworth, A. (1996). The influence of scene context on object perception. Paper presented at the Annual Meeting of the Psychonomic Society, Chicago, IL.
- Henderson, J. M., Weeks, P. A., Jr., & Hollingworth, A. (1996). Object encoding in natural scenes. Paper presented at the International Congress of Psychology, Montreal.