Curriculum Vitae

Geoffrey Forrest Woodman

Professor of Psychology & Neuroscience
E. Bronson Ingram Chair of Neuroscience

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Education & Employment

B.S. 1993-1997
University of Iowa, Department of Psychology

Ph.D. 1997-2002
University of Iowa, Department of Psychology
Dissertation: "The involvement of visual working memory in visual search"
Mentors: Steven J. Luck & Shaun P. Vecera

Post-doctoral Fellow 2002-2006
Vanderbilt University, Department of Psychology
Mentors: Marvin M. Chun & Jeffrey D. Schall

Research Assistant Professor 2006-2007
Vanderbilt University, Department of Psychology

Assistant Professor 2007-2015
Vanderbilt University, Department of Psychology, Vanderbilt Vision Research Center, Center for Integrative & Cognitive Neuroscience

Associate Professor 2015-2020
Vanderbilt University, Department of Psychology, Vanderbilt Vision Research Center, Center for Integrative & Cognitive Neuroscience, Co-Director of T32 from NEI, Director of Graduate Studies for the Department of Psychology

Full Professor 2020-present

Vanderbilt University, Department of Psychology, Vanderbilt Vision Research Center, Director of T32 from NEI, Director of Graduate Studies for the Department of Psychology

Recent Honors and Awards

Young Investigator Award from the Vision Sciences Society, 2012

Troland Award from the National Academy of Sciences, 2016

Vanderbilt Chancellor's Award for Research (for work with Sohee Park), 2016

Vanderbilt Chancellor's Faculty Fellow, 2017-2018

Named E. Bronson Ingram Chair of Neuroscience, 2021

Publications

Google Scholar Citations: H-index = 49; i10-index: 83; 27 papers with over 100 citations; times cited: 12,002 (as of Spring, 2021)

Journal Articles

1. Woodman, G.F., & Luck, S. J. (1999). Electrophysiological measurement of rapid shifts of attention during visual search. *Nature*, *400*, 867-869. PMID: 10476964.

2. Luck, S. J., Woodman, G. F., & Vogel, E. K. (2000). Event-related potential studies of attention. *Trends in Cognitive Sciences*, *4*, 432-440. PMID: 11058821.

3. Vogel, E. K., Woodman, G. F., & Luck, S. J. (2001). Storage of features, conjunctions, and objects in visual working memory. *Journal of Experimental Psychology: Human Perception and Performance, 27*, 92-114. PMID: 11248943.

4. Woodman, G.F., Vogel, E.K., & Luck, S.J. (2001). Visual search remains efficient when visual working memory is full. *Psychological Science, 12*, 219-224. PMID: 11437304.

5. Vecera, S.P., Vogel, E.K., & Woodman, G.F. (2002). Lower region: A new cue for figure-ground assignment. *Journal of Experimental Psychology: General, 131*, 194-205. PMID: 12049239.

6. Schmidt, B.K., Vogel, E. K., Woodman, G. F., & Luck, S. J. (2002). Voluntary and automatic attentional control of visual working memory. *Perception & Psychophysics, 64*, 754-763. PMID: 12201334.

7. Hopf, J.-M., Vogel, E.K., Woodman, G.F., Heinze, H.-J., & Luck, S.J. (2002). Localizing visual discrimination processes in time and space. *Journal of Neurophysiology, 88*, 2088-2095. PMID: 12364530.

8. Woodman, G.F. & Luck, S.J. (2003). Serial deployment of attention during visual search. *Journal of Experimental Psychology: Human Perception and Performance, 29*,121-138. PMID: 12669572.

9. Woodman, G.F. Vecera, S.P., & Luck, S.J. (2003). Perceptual organization influences visual working memory. *Psychonomic Bulletin & Review, 10*, 80-87. PMID: 12747493.

10. Woodman, G.F. & Luck, S.J. (2003). Dissociations among attention, perception, and awareness during object-substitution masking. *Psychological Science, 14*, 605-611. PMID: 14629693.

11. Woodman, G.F. & Luck, S.J. (2004). Visual search is slowed when visuospatial working memory is occupied. *Psychonomic Bulletin & Review, 11*, 269-274. PMID: 15260192.

12. Yi, D.-J., Woodman, G.F., Widders, D., Marios, R. & Chun, M.M. (2004, August 01). Neural fate of ignored stimuli: Dissociable effects of perceptual and working memory load. *Nature Neuroscience, 7(9)*, 992-996. PMID: 15286791.

13. Woodman, G.F. & Vogel, E.K. (2005). Fractionating working memory: consolidation and maintenance are independent processes. *Psychological Science, 16(2)*, 106-113. PMID: 15686576.

14. Vogel, E. K., Woodman, G.F. & Luck, S.J. (2006). Pushing around the locus of selection: Evidence for the flexible-selection hypothesis. *Journal of Cognitive Neuroscience, 17(12),* 1907-1922. PMID: 16356328.

15. Woodman, G.F. & Chun, M.M. (2006). The role of working memory and long-term memory in visual search. *Visual Cognition, 14*, 808-830.

16. Vogel, E. K., Woodman, G. F., & Luck, S. J. (2006). The time course of consolidation in visual working memory. *Journal of Experimental Psychology: Human Perception and Performance*, 32, 1436-1451. PMID: 17154783.

17. Woodman, G.F. & Yi, D.-J. (2007). Masked-target recovery requires focused attention on the target object. *Visual Cognition, 15*, 385-401.

18. Woodman, G.F. & Luck, S.J. (2007). Do the contents of visual working memory automatically influence attentional selection during visual search? *Journal of Experimental Psychology: Human Perception and Performance, 33*, 363-377. PMID: 17469973. PMC2048820.

19. Woodman, G.F., Luck, S.J., & Schall, J.D. (2007). The role of working memory representations in the control of attention. *Cerebral Cortex, 17*, 118-124. PMID: 17725994. PMC2094040.

20. Woodman, G.F., Kang, M.-S., Rossi, A.F., & Schall, J.D. (2007). Nonhuman primate event-related potentials indexing covert shifts of attention. *Proceedings of the National Academy of Sciences, 104*, 15111-15116. PMID: 17848520. PMCID: PMC1986621

21. Johnson, J.S., Woodman, G.F., Braun, E. & Luck, S.J. (2007). Implicit memory influences the allocation of attention in visual cortex. *Psychonomic Bulletin & Review,* 14(5), 834-839. PMID: 18087946.

22. Cohen, J.Y., Pouget, P., Woodman, G.F., Subraveti, C.R., Schall J.D. & Rossi, A.F. (2007). Difficulty of visual search modulates neural interactions and response variability in the Frontal Eye Field. *Journal of Neurophysiology*, *98*, 2580-2587. PMID: 17855586.

23. Woodman, G.F., Kang, M.-S., Thompson, K., & Schall, J.D. (2008). The effect of visual search efficiency on response preparation: Neurophysiological evidence for discrete flow. *Psychological Science, 19,* 128-136. PMID: 18271860.

24. Woodman, G.F. & Vogel, E.K. (2008). Selective storage and maintenance of an object's features in visual working memory. *Psychonomic Bulletin & Review, 15,* 223-229. PMID: 18605507.

25. Cohen, J.Y., Heitz, R.P., Schall J.D., & Woodman, G.F. (2009). On the origin of event-related potentials indexing covert attentional selection during visual search. *Journal of Neurophysiology, 102,* 2375-2386. PMID: 19675287. PMCID: PMC2775385.

26. Woodman, G.F. Arita, J.T., & Luck, S.J. (2009). A cuing study of the N2pc component: An index of attentional deployment to objects rather than spatial locations. *Brain Research, 1297,* 101-111. PMID: 19682440. PMCID: PMC2758329.

27. 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(4),* 1140-1160. PMID: 19653755. PMCID: PMC2726625.

28. Cohen, J.Y., Heitz, R.P., Woodman, G.F., & Schall J.D. (2009). Neural basis of the set-size effect in frontal eye field: Timing of attention during visual search. *Journal of Neurophysiology, 101,* 1699-1704. doi:10.1152/jn.00035.2009. PMID: 19176607. PMCID: PMC2695643.

29. Cohen, J.Y., Pouget, P., Heitz, R.P., Woodman, G.F., & Schall J.D. (2009). Biophysical support for functionally distinct cell types in the Frontal Eye Field. *Journal of Neurophysiology, 101,* 912-916. PMID: 19052112. PMCID: PMC2657052.

30. Hyun, J.-S., Woodman, G.F. & Luck, S.J. (2009). The role of attention in the binding of surface features to locations. *Visual Cognition, 17,* 10-24. PMCID: PMC3824248.

31. Cohen, J.Y., Crowder, E.A., Heitz, R.P., Subraveti, C.R., Thompson, K.G., Woodman, G.F., & Schall J.D. (2010). Cooperation and competition among frontal eye field neurons during visual target selection. *Journal of Neuroscience, 30,* 3227-3238. PMID: 20203182. PMCID: PMC2844339.

32. Woodman, G.F. (2010). Masked targets trigger event-related potentials indexing shifts of attention but not error detection. *Psychophysiology, 47*, 410-414. PMID: 20070578. PMCID: PMC2956465.

33. Woodman, G.F. & Luck, S.J. (2010). Why is information displaced from visual working memory during visual search? *Visual Cognition, 18,* 275-295. doi:10.1080/13506280902734326. PMCID: PMC3817820.

34. Woodman, G.F. (2010). A brief introduction to the use of event-related potentials (ERPs) in studies of perception and attention. *Attention, Perception & Psychophysics, 72(8),* 2131-2146. PMID: 21097848. PMCID: PMC3816929.

35. Heitz, R.P., Cohen, J.Y., Woodman, G.F. & Schall J.D. (2010). Neural correlates of correct and errant attentional selection revealed through N2pc and frontal eye field activity. *Journal of Neurophysiology, 104,* 2433-2441. PMID: 20810692. PMCID: PMC2997024.

36. Woodman, G.F. & Vecera, S.P. (2011). The cost of accessing an object's feature stored in visual working memory. *Visual Cognition, 19,* 1-12. PMID: 21221413. PMCID: PMC3017355.

37. Carlisle, N.B. & Woodman, G.F. (2011). Automatic and strategic effects in the guidance of attention by working memory representations. *Acta Psychologica, 137,* 217-225. PMID: 20643386. PMCID: PMC2991492.

38. Woodman, G.F. & Arita, J.T. (2011). Direct electrophysiological measurement of attentional templates in visual working memory. *Psychological Science, 22*, 212-215. PMID: 21193780. PMCID: PMC3816932.

39. Carlisle, N.B., Arita, J.T., Pardo, D., & Woodman, G.F. (2011). Attentional templates in visual working memory. *Journal of Neuroscience, 35(25)*, 9315-9322. PMID: 21697381. PMCID: PMC3147306.

40. Godlove, D.C., Garr, A.K., Woodman, G.F., & Schall, J.D. (2011). Measurement of the extraocular spike potential during saccade countermanding. *Journal Neurophysiology*,*106,* 104-114. PMID: 21490279. PMCID: PMC3129738.

41. Carlisle, N.B. & Woodman, G.F. (2011). When memory is not enough: Electrophysiological evidence for goal-dependent use of working memory representations in guiding visual attention. *Journal of Cognitive Neuroscience, 23,* 2650-2664. PMCID: PMC3981747.

42. Kang, M.-S., Hong, S.W., Blake, R. & Woodman, G.F. (2011). Visual working memory contaminates perception. *Psychonomic Bulletin & Review, 18*, 860-869. PMID: 21713369. PMCID: PMC3371032.

43. Kang, M.-S., Blake, R. & Woodman, G.F. (2011). Semantic analysis does not occur in the absence of awareness induced by interocular suppression. *Journal of Neuroscience, 31,* 13535-13545. PMID: 21940445. PMCID: PMC3209531.

44. Godlove D.C., Emeric, E.E., Segovis, C.M., Young, M.S., Schall, J.D. & Woodman, G.F. (2011). Event-related potentials elicited by errors during the stop-signal task. I: Macaque monkeys. *Journal of Neuroscienc*e, *31*, 15640-15649. PMID: 22049407. PMCID: PMC3241968.

45. Woodman, G.F., Vogel, E.K. & Luck, S.J. (2012). Flexibility in visual working memory: Accurate change detection in the face of irrelevant variations in position. *Visual Cognition, 20*, 1-28. PMCID: PMC3266348.

46. Williams, M. & Woodman, G.F. (2012). Directed forgetting and directed remembering in visual working memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 38*, 1206-1220. PMID: 22409182. PMCID: PMC3817833.

47. Reinhart R.M.G., Carlisle, N.B., Kang, M.-S. & Woodman, G.F. (2012). Event-related potentials elicited by errors during the stop-signal task. II: Human effector specific error responses. *Journal of Neurophysiology, 107,* 2794-2807. PMCID: PMC3362284.

48. Arita, J.T., Carlisle, N.B., & Woodman, G.F. (2012). Templates for rejection: Configuring attention to ignore task-irrelevant features. *Journal of Experimental Psychology: Human Perception and Performance, 38*, 580-584. PMID: 22468723. PMCID: PMC3817824.

49. Reinhart R.M.G., Heitz, R.P., Purcell, B.A., Weigand, P.K., Schall, J.D. & Woodman, G.F. (2012). Homologous mechanisms of visuospatial working memory maintenance in macaque and human: Properties and sources. *Journal of Neuroscience, 32*, 7711-7722. PMCID: PMC3373257.

50. Purcell, B.A., Schall, J.D. & Woodman, G.F. (2013). Timing of attentional selection in frontal eye field and posterior event-related potentials during pop-out search. *Journal of Neurophysiology, 109,* 557-569. PMCID: PMC3417208.

51. Williams, M., Hong, S.W., Carlisle, N.B., Kang, M.-S. & Woodman, G.F. (2013). The benefit of forgetting. *Psychonomic Bulletin & Review, 20,* 348-355. PMCID: PMC3593955.

52. Woodman, G.F. (2013). Viewing the control and dynamics of visual attention through the lens of electrophysiology. *Vision Research, 80,* 7-18. PMCID: PMC3594578.

53. Williams, M., Pouget, P., Boucher, L. & Woodman, G.F. (2013). Visual-spatial attention aids the maintenance of object representations in visual working memory. *Memory & Cognition, 41*, 698-715. PMCID: PMC3655125.

54. Woodman, G.F., Carlisle, N.B. & Reinhart, R.M.G. (2013). Where do we store the memory representations that control attention? *Journal of Vision, 13(1):1*, 1-17. dio: 10.1167/13.3.1. PMCID: PMC3590103.

55. Carlisle, N.B. & Woodman, G.F. (2013). Reconciling conflicting electrophysiological findings on the guidance of attention by working memory. *Attention, Perception & Psychophysics, 75,* 1330-1335. PMCID: PMC3800228.

56. Reinhart, R.M.G. & Woodman, G.F. (2014). Oscillatory coupling reveals the dynamic reorganization of large-scale neural networks as cognitive demands change. *Journal of Cognitive Neuroscience, 26*, 175-188. PMCID: PMC3990735.

57. Kang, M.-S. & Woodman, G.F. (2014). Probing the role of microsaccades in the generation of human neurophysiological index of visual working memory maintenance. *Neuropsychologia, 56,* 63-72. PMCID: PMC3974880.

58. Kang, M.-S., DiRaddo, A., Logan, G.D. & Woodman, G.F. (2014). Electrophysiological evidence for preparatory reconfiguration before voluntary task switches but not cued task switches. *Psychonomic Bulletin & Review, 21,* 454-461. PMCID: PMC3933470.

59. Reinhart, R.M.G. & Woodman, G.F. (2014). Causal control of medial-frontal cortex governs performance monitoring and learning. *Journal of Neuroscience, 34,* 4214-4227. PMCID: PMC3960465.

60. Godlove, D.C., Maier, A., Woodman, G.F. & Schall, J.D. (2014). Microcircuitry of agranular frontal cortex relative to the canonical cortical microcircuit. *Journal of Neuroscience*, 34, 5355-5369. PMCID: PMC3983808.

61. Maxcey, A.M. & Woodman, G.F. (2014). Can we throw information out of visual working memory and does this leave information residue in long-term memory? *Frontiers in Psychology, 5,* 294. doi: 10.3389/fpsyg.2014.00294

62. Reinhart, R.M.G. & Carlisle, N.B. & Woodman, G.F. (2014). Visual working memory gives up attentional control early in learning: Ruling out inter-hemispheric competition. *Psychophysiology, 51*, 800-804. PMCID: PMC4107137.

63. Reinhart, R.M.G. & Woodman, G.F. (2014). High stakes trigger the use of multiple memories to enhance the control of attention. *Cerebral Cortex, 24*, 2022-2035. PMCID: PMC4089381.

64. Ko, P.C., Duda, B., Hussey, E., Mason, E., Molitor, R., Woodman, G.F. & Ally, B.A. (2014) Understanding age-related reductions in visual working memory capacity: Examining the stages of change detection. *Attention, Perception & Psychophysics, 76,* 2015-2030. PMCID: PMC4098047.

65. Wong, T.K., Peng, C., Fratus, K.N., Woodman, G.F. & Gauthier, I. (2014) Perceptual expertise for musical notation engages the primary visual cortex with top-down expectation. *Journal of Cognitive Neuroscience, 26*, 1629-1643. PMCID: PMC4074229.

66. Maxcey, A.M. & Woodman, G.F. (2014). Forgetting induced by recognition of visual images. *Visual Cognition, 22*, 789-808. PMCID: PMC4339795.

67. Reinhart, R.M.G. & Woodman, G.F. (2015). Enhancing long-term memory with stimulation tunes visual attention in one trial. *Proceedings of the National Academy of Sciences, 112*, 625-630. PMCID: PMC4299199.

68. Fukuda, K. & Woodman, G.F. (2015). Predicting and improving recognition memory using single-trial electrophysiology. *Psychological Science*, *26,* 1026-1037. PMC4643667.

69. Maxcey, A.M., Fukuda, K., Song, W.S. & Woodman, G.F. (2015). Using electrophysiology to demonstrate that cueing affects long-term memory storage over the short term. *Psychonomic Bulletin & Review*, *22(5),* 1349-1357. PMCID: PMC4510034.

70. Reinhart, R.M.G. McClenahan, L.J. & Woodman, G.F. (2015). Visualizing trumps vision when training attention. *Psychological Science, 26,* 1114-1122. PMCID: PMC4504754.

71. Reinhart, R.M.G. & Woodman, G.F. (2015). The surprising temporal specificity of direct-current stimulation. *Trends in Neurosciences, 38,* 459-461.

72. Reinhart, R.M.G., Zhu, J., Park, S. & Woodman, G.F. (2015). Synchronizing theta oscillations with direct-current stimulation restores adaptive control in schizophrenia. *Proceedings of the National Academy of Science, 112(30),* 9448-9453. PMCID: PMC4522782.

73. Reinhart, R.M.G., Zhu, J., Park, S. & Woodman, G.F. (2015). Medial-frontal stimulation enhances learning in schizophrenia by restoring prediction-error signaling. *Journal of Neuroscience, 35,* 12232-12240. PMCID: PMC4556788.

74. Cosman, J.D., Atreya, P.V. & Woodman, G.F. (2015). Transient reduction of visual distraction following electrical stimulation of the prefrontal cortex. *Cognition, 145*, 73-76. PMCID: PMC4661068.

75. Cosman, J.D., Arita, J.T. & Ianni, J.D. & Woodman, G.F. (2016). Electrophysiological measurement of information flow during visual search. *Psychophysiology, 52,* 535-543. PMCID: PMC4965274.

76. Reinhart, R.M.G., McClenahan, L.J. & Woodman, G.F. (2016). Attention's accelerator. *Psychological Science, 27,* 790-798. PMCID: PMC4899122

77. Reinhart, R.M.G., Xiao, W., McClenahan, L.J. & Woodman, G.F. (2016). Electrical stimulation of visual cortex can immediately improve spatial vision. *Current Biology, 26(14)*, 1867-1872. PMCID: PMC4961578.

78. Fukuda, K., Kang, M.-S. & & Woodman, G.F. (2016). Distinct neural mechanisms for spatially lateralized and spatially global working memory representations. *Journal of Neurophysiology, 116,* 1715-1727. PMCID: PMC5144708.

79. Reinhart, R.M.G., Cosman, J.D., Fukuda, K., & Woodman, G.F. (2017). Using transcranial direct-current stimulation (tDCS) to understand cognitive processing. *Attention, Perception & Psychophysics, 79(1)*, 3-23. PMCID: PMC5539401.

80. Fukuda, K. & Woodman, G.F. (2017). Visual working memory buffers information retrieved from visual long-term memory. *Proceedings of the National Academy of Science, 114(20)*, 5306-5311. doi: 10.1073/pnas.1617874114. PMCID: PMC5441785.

81. Rugo, K., Tamler, K., Woodman, G.F. & Maxcey, A.M. (2017). Recognition induced forgetting of faces in visual long-term memory. *Attention, Perception & Psychophysics, 79(7),* 1878-1885. PMCID: PMC5935798.

82. Cosman, J.D., Lowe, K.A., Zinke, W., Woodman, G.F., & Schall, J.D. (2018). Prefrontal control of visual distraction. *Current Biology, 28(3),* 414-420. PMCID: PMC5922980.

83. Heritage, A.J., Long, L.J., Woodman, G.F. & Zald, D.H. (2018). Personality correlates of individual differences in the recruitment of cognitive mechanisms when rewards are at stake. *Psychophysiology, 55(2),* doi: 10.1111/psyp.12987. PMCID: PMC5773371.

84. Servant, M., Cassey, P., Logan, G.D. & Woodman, G.F. (2018). The neural bases of automaticity. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *44(3), 440-464.* PMCID: PMC5862722.

85. Reinhart, R.M.G., Park, S. & Woodman, G.F. (2019). Localization and elimination of attentional dysfunction in schizophrenia. *Schizophrenia Bulletin*, 45(1), 96-105. PMCID: PMC6293221.

86. Rajsic, J., Burton, J., & Woodman, G.F. (2019). The contralateral delay activity tracks the storage of visually presented letters and words. *Psychophysiology, 56(1):e13282. doi: 10.1111/psyp.13282.*

87. Sundby C. Woodman, G.F. & Fukuda, K. (2019). Electrophysiological and behavioral evidence for attentional up-regulation, but not down-regulation when encoding pictures into long-term memory. *Memory & Cognition, 47(2):351-364.*

88. Rajsic, J. & Woodman, G.F. (2019). Do we remember templates better so that we can reject distractors better? *Attention, Perception & Psychophysics, doi: 10.3758/s13414-019-01721-8. [Epub ahead of print].*

89. Carlisle, N.B. & Woodman, G.F. (2019). Quantifying the attentional impact of working memory matching targets and distractors. *Visual Cognition, 27,* 452-466*.*

90. Wang, S., Rajsic, J. & Woodman, G.F. (2019). The contralateral delay activity tracks the sequential loading of visual working memory, unlike alpha suppression. *Journal of Cognitive Neuroscience, 31,* 1689-1698*.*

91. Rajsic, J., Hilchey, M.D., Woodman, G.F. & Pratt, J. (2020). Visual working memory load does not eliminate visual motor repetition effects. *Attention, Perception & Psychophysics, 82,* 1290-1303*.*

92. Rajsic, J., Carlisle, N.B. & Woodman, G.F. (2020). What not to look for: Electrophysiological evidence that searchers prefer positive templates. *Neuropsychologia, 140,* 107376*. doi: 10.1016/j.neuropsychologia.2020.107376.*

93. Herrera, B., Sajad, A. Woodman, G.F., Schall, J.D., & Riera, J. (2020). A minimal biophysical model of neocortical pyramidal cells: Implications for frontal cortex microcircuitry and field potential generation. *Journal of Neuroscience, 40(44),* 8513-8529*.*

94. Errington, S., Woodman, G.F., & Schall, J.D. (2020). Dissociation of medial frontal beta-bursts and executive control. *Journal of Neuroscience, 40(48), 9272-9282.*

95. Wang, S. Megla, E.E. & Woodman, G.F. (in press). Stimulus induced alpha suppression tracks the difficulty of attentional selection, not visual working memory storage. *Journal of Cognitive Neuroscience.*

96. Zhao, C. & Woodman, G.F. (2021). Converging evidence that neural plasticity underlies transcranial Direct-Current Stimulation (tDCS). *Journal of Cognitive Neuroscience, 33(1),* 146-157*.*

97. Woodman, G.F. (in press). Spatial location is filtered out of visual working memory representations when task irrelevant, just like other features. *Attention, Perception & Psychophysics.*

98. Sutterer, D.W., Polyn, S.M. & Woodman, G.F. (in press). Alpha-band activity tracks a 2-dimensional spotlight of attention during spatial working memory maintenance. *Journal of Neurophysiology.*

99. Megla E.E., Woodman, G.F. & Maxcey, A.M. (in press). Induced forgetting is the result of true forgetting, not shifts in decision-making thresholds. *Journal of Cognitive Neuroscience*.

100. Megla E.E. & Woodman, G.F. (in press). Medium strength visual long-term memories are the most fragile. *Psychonomic Bulletin & Review.*

Books

1. Maxcey, A.M. & Woodman, G.F. (2019). *From start to finish: A practical guide to becoming a scientist in psychology and neuroscience.* San Diego, CA: Cognella, Inc.

2. Woodman, G.F. & Maxcey, A.M. (2019). *The machines in our brains: Cognitive mechanisms of information processing.* San Diego, CA: Cognella, Inc.

3. Calkins, D., Casagrande, V., Schall, J.D. & Woodman, G.F. (Eds.) (under contract). *The Visual System.* Sunderland, MA: Sinauer Associates, Inc.

Chapters

1. Woodman, G.F. (2012). Homologues of human event-related potential components in nonhuman primates. In Luck, S.J. & Kappenman, E.S. (Eds.), *The Oxford Handbook of Event-Related Potential Components*. (pp. 611-625). New York: Oxford University Press.

2. Pouget, P., Arita, J., & Woodman, G.F. (2012). Primate visual attention: How studies of monkeys have shaped theories of selective processing. In Lazareva O., Shimizu T., & Wasserman E. (Eds.), *How Animals See the World: Behavior, Biology, and Evolution of Vision.* (pp. 335-350). New York: Oxford University Press.

3. Woodman, G.F. & Schroeder, C.E. (2012). Using nonhuman primates to study the micro- and macro-dynamics of neural mechanisms of attention. In Posner, M.I. (Ed.), *Cognitive Neuroscience of Attention.* (pp. 219-228). New York: Guilford Press.

4. Schall, J.D. & Woodman, G.F. (2012). A stage theory of attention and action. In Mangun, G.R. (Ed.), *Neuroscience of Attention.* (pp. 187-208). New York: Oxford University Press.

5. Zhang, W., Johnson, J.S., Woodman, G.F., & Luck, S.J. (2012). Features and conjunctions in visual working memory. In Wolfe, J. & Robertson, L. (Eds.), *Attention and Cognition.* (pp. 369-377). New York: Oxford University Press.

6. Woodman, G.F. & Luck, S.J. (2015). Using working memory to control attentional deployment to items in complex scenes. In Fawcett, J., Risko, E.F. & Kingstone, A. (Eds.), *The Handbook of Attention*. (pp. 173-197). Cambridge, MA: MIT Press.

7. Fukuda, K., Woodman, G.F. & Vogel, E.K. (2015). Individual differences in visual working memory capacity: Contributions of attentional control to storage. In Jolicoeur P., Lefebvre C.,

& Martinez-Trujillo J. (Eds.), *Mechanisms of Sensory Working Memory: Attention and Performance XXV* (pp. 105-120). New York: Academic Press.

8. Woodman, G.F. & Fukuda, K. (2018). Visual working memory and cognition. *Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience, Fourth Edition.* Hoboken, New Jersey: John Wiley & Sons, Inc.

9. Maier, A., Schall, J.D. & Woodman, G.F. (2018). Neural recordings at multiple scales. *Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience, Fourth Edition.* Hoboken, New Jersey: John Wiley & Sons, Inc.

Commentaries

1. Kang, M.-S., Blake, R., & Woodman, G.F. (2012) The defining characteristics of visual awareness and event-related potentials indexing semantic processing [Response to Heyman & Moors]. *Journal of Neuroscience.*

2. Cohen, J.Y., Heitz, R.P., Woodman, G.F., & Schall J.D. (2009). Reply to Balan and Gottlieb [comment]. *Journal of Neurophysiology, 102,* 1342-1343. doi:10.1152/jn.00403.2009.

3. Schall, J.D., Paré, M., & Woodman, G.F. (5 October 2007). Comment on "Top-down versus bottom-up control of attention in the prefrontal and posterior parietal cortices". *Science, 318*, 44b. PMID: 17916712.

4. Woodman, G.F., Vogel, E.K., & Luck, S.J. (2001). Attention is not unitary: Response to Cowan (2001). *Behavioral and Brain Sciences, 24*, 153-154.

Under Review or Revision

Fukuda, K., Schall, J.D. & Woodman, G.F. (under revision). Electrophysiology reveals reciprocity between proactive and reactive response inhibition. *Journal of Cognitive Neuroscience.*

Rajsic, J. Servant, M. & Woodman, G.F. (submitted) Variety is the spice of memory: stimulus novelty amplifies neural measures of long-term memory in search. *Psychophysiology*.

Westerberg, J.A., Schall, M.S., Maier, A., Schall, J.D. & Woodman, G.F. (submitted) Cortical Columns in Area V4 Produce the Event-Related Potential Index of Attention.

Woodman, G.F., Wang, S., Sutterer, D.W., Reinhart, R.M.G. & Fukuda, K. (under revision). Induced alpha suppression indexes visual attention not visual working memory. *Psychophysiology.*

Funding

Current

NIH:NEI 2R01-EY019882, 12/1/2009-5/30/2021.
PI, total direct costs of $4,066,748. "Comparative electrophysiology: Visual event-related potentials and oscillations."

NIH:NIMH R01-MH110378, 9/1/72016-8/31/2021.
contact PI, $1,961,602 total direct costs. “Restoring oscillations underlying adaptive control in schizophrenia with direct current.”

Previous

Vanderbilt University Discovery Grant, PI, 6/1/2014-6/1/2017
direct costs of $50,000. "Using direct-current stimulation to manipulate learning and memory”

NSF BCS 09-57072, 7/15/2010-6/31/2014.
PI, total direct costs of $500,000. "Interactions between visual working memory representations and mechanisms of perceptual selection."

Vanderbilt University Discovery Grant, Co-PI with Andrew Rossi, direct costs of $50,000 over a two-year period beginning 2005. "Linking studies of attention in humans and macaque monkeys using multiple electrophysiological techniques"

Postdoctoral Individual National Research Service Award, NEI fellowship grant, start date August 3, 2003, support for 27 months. "Neural correlates of visual object-substitution masking."

Predoctoral Individual National Research Service Award, NIMH fellowship grant, start date March 1, 2001, support for 27 months. "The involvement of visual working memory in visual search."

Intellectual Property

Patent filed with Keisuke Fukuda through Vanderbilt University:

Title: Online Electrophysiological Assessment of Learning
Filed: January 14, 2014
Application No.: 61/927,183
Client Ref. No.: VU14086P1
NDQ Ref. No.: 20004.015

Academic Service

Editorships

Journal of Experimental Psychology: Human Perception & Performance
Associate Editor 2014-present

The Journal of Neuroscience
Associate Editor 2018-present

Editorial Boards

Attention, Perception & Psychophysics	2011-present
Psychonomic Bulletin & Review	2008-2015
Psychological Science	2004-present
Journal of Experimental Psychology: Learning, Memory & Cognition	2008-present
Journal of Experimental Psychology: Human Perception & Performance	2010-2014 (ad hoc action editor, 2011-2014)
Visual Cognition	2007-present

Ad hoc Reviewer

Representative Journals

Acta Psychologica; Biological Psychiatry, Brain and Cognition; Canadian Journal of Experimental Psychology; Cerebral Cortex; Cognition; Cognitive, Affective & Behavioral Neuroscience; Cognitive Brain Research; Cognitive Neuropsychology; Cognitive Neuroscience; Cognitive Psychology; Cognitive Science; Current Biology; Developmental Psychology; Experimental Psychology; European Journal of Cognitive Psychology; European Journal of Neuroscience; Frontiers in Neuroscience; Human Brain Mapping; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: General; Journal of Neurophysiology; Journal of Neuroscience; Journal of Vision; Learning & Memory; Memory & Cognition; Nature Communications; NeuroImage; Neuropsychologia; Neuroscience; Neuroscience Letters; PLOS: One; PLOS: Biology; PNAS (guest editor for PNAS); Psychophysiology; Quarterly Journal of Experimental Psychology; Trends in Cognitive Science; Trends in Neuroscience; Visual Neuroscience; Vision Research

Granting agencies

NIH (National Institutes of Health)
NSF (National Science Foundation)
NSERC (National Sciences and Engineering Research Council of Canada)
NOW (Netherlands Organisation for Scientific Research)
USUHS (Department of Defense)

Community Outreach

Society for Neuroscience Neuroscientist-Teacher Partner Program 2009-present
Speak to high school classes (e.g., Lebanon, TN,
High School) regarding the value and rewards of neuroscience research.

Conference Presentations

1. Vogel, E. K., Woodman, G. F., Eads, A. C., & Luck, S. J. (1998). Masking in visual working memory: Evidence for a limited-capacity encoding mechanism. Poster presented at the 1998 meeting of the Cognitive Neuroscience Society. San Francisco, CA.

2. Luck, S. J., Vogel, E. K., Woodman, G. F., & Eads, A. C. (1998). Visual working memory for features, conjunctions, and objects. Poster presented at the 1998 meeting of the Cognitive Neuroscience Society. San Francisco, CA.

3. Woodman, G. F., & Luck, S. J. (1998). Electrophysiological measurement of rapid shifts of visual attention during search. Poster presented at the 1998 meeting of the Society for Neuroscience. Los Angeles, CA.

4. Woodman, G. F., & Luck, S. J. (1999). Evidence for rapid shifts of visual attention during search. Poster presented at the 1999 meeting of the Cognitive Neuroscience Society. Washington, D.C.

5. Woodman, G. F., Vogel, E.K., Vecera, S.P., & Luck, S J. (1999). Evidence for the modulation of striate cortex during figure-ground segregation. Poster presented at the 1999 meeting of the Cognitive Neuroscience Society. Miami, FL.

6. Luck, S.J., & Woodman, G.F. (1999). Electrophysiological evidence for serial scanning in visual search. Symposium talk delivered at the Psychonomic Society Annual Meeting. Los Angeles, CA.

7. Woodman, G.F., & Luck, S.J. (2000). The effects of maintaining a concurrent visual working memory load during visual search. Poster presented at the 2000 meeting of the Cognitive Neuroscience Society. San Francisco, CA.

8. Woodman, G.F., Vogel, E.K., & Luck, S.J. (2000). Visual search remains efficient when visual working memory is full. Symposium talk delivered at the Psychonomic Society Annual Meeting. New Orleans, LA.

9. Woodman, G.F., & Luck, S.J. (2001). Serial deployment of attention during visual search. Paper delivered at the Vision Sciences Society Annual Meeting. Sarasota, FL. PMID: 12669752.

10. Hyun, J-S., Woodman, G.F., & Luck, S.J. (2001). The role of attention in localizing visual features. Poster presented at the 2001 meeting of the Society for Neuroscience. San Diego, CA.

11. Luck, S.J., Vogel, E.K., & Woodman, G.F. (2001). Pushing around the locus of selection. Symposium talk delivered at the Psychonomic Society Annual Meeting. Orlando, FL.

12. Vecera, S.P., Vogel, E.K., & Woodman, G.F. (2001). Lower region: A new cue for figure-ground segregation. Symposium talk delivered at the Psychonomic Society Annual Meeting. Orlando, FL.

13. Woodman, G.F., & Luck, S.J. (2002). Interactions between perceptual attention and visual working memory during object-substitution masking. Paper presented at the 2002 meeting of the Cognitive Neuroscience Society. San Francisco, CA.

14. Woodman, G.F. & Luck, S.J. (2002). Interactions between perception and working memory during visual search. Talk delivered at the Vision Sciences Society 2002 Annual Meeting. Sarasota, FL.

15. Luck, S.J., Woodman, G.F., Schmidt, B.K., Vogel, E.K., & Vecera, S.P. (2002). The effects of attentional capture on visual working memory. Paper delivered at the Vision Sciences Society 2002 Annual Meeting. Sarasota, FL.

16. Vogel, E. K., Woodman, G. F., & Luck, S. J. (2002). The rapid time-course of visual working memory consolidation. Paper delivered at the Vision Sciences Society 2002 Annual Meeting. Sarasota, FL.

17. Woodman, G.F. & Luck, S. J. (2002). Dissociations among attention, perception, and awareness in object-substitution masking. Symposium talk delivered at the Psychonomic Society Annual Meeting. Kansas City, MO.

18. Luck, S. J. & Woodman, G.F. (2002). Electrophysiological evidence for serial shifts of attention in demanding visual search tasks. Symposium talk delivered at the Psychonomic Society Annual Meeting. Kansas City, MO.

19. Luck, S.J., Vogel, E.K., Woodman, G.F. & Hyun, J.-S. (2003). Toward an embedded process metatheory of selective attention. Paper delivered at the Vision Sciences Society 2003 Annual Meeting. Sarasota, FL.

20. Hyun, J.-S., Woodman, G.F., Vogel, E.K., Niese, A.T., & Luck, S.J. (2003). How are visual inputs compared with memory representations in the change-detection paradigm? Paper delivered at the Vision Sciences Society 2003 Annual Meeting. Sarasota, FL.

21. Yi, D.-J., Chun, M.M., & Woodman, G.F. (2003). Object substitution masking does not spread within a perceptual group. Paper delivered at the Vision Sciences Society 2003 Annual Meeting. Sarasota, FL.

22. Woodman, G.F. & Chun, M.M. (2003). Access to visual working memory is required for contextual cueing in visual search. Paper delivered at the Vision Sciences Society 2003 Annual Meeting. Sarasota, FL.

23. Yi, D.-J., Woodman, G.F., Widders, D., Marois, R., & Chun, M.M. (2003). Dissociating the effects of perceptual and working memory load using fMRI. Paper delivered at the Psychonomic Society Annual Meeting. Vancouver, BC.

24. Woodman, G.F. & Vogel, E.K. (2003). Is visual working memory consolidation slower when it is already partially filled? Paper delivered at the Psychonomic Society Annual Meeting. Vancouver, BC.

25. Woodman, G.F., Yi, D.-J., Chun, M.M., & Schall, J.D. (2004). Masking the mask: Targets are recovered during pattern masking but not object-substitution masking. Paper delivered at the Vision Sciences Society 2004 Annual Meeting. Sarasota, FL.

26. Woodman, G.F. Boucher, L. Schall, J.D. & Luck, S.J. (2004). Do the contents of visual working memory automatically influence attentional selection during visual search? Poster presented at the Society for Neuroscience 2004 Annual Meeting. San Diego, CA.

27. Hyun, J.-S., Woodman, G. F., Vogel, E. K., & Luck, S. J. (2004). How are perceptual inputs compared with visual working memory representations? Poster presented at the Society for Neuroscience 2004 Annual Meeting. San Diego, CA.

28. Lee, J., Kwon, J.-S., Shin, Y.-W., Lee, K.-J., Woodman, G.F., & Park, S. (2005) Abstract published in *Schizophrenia Bulletin 31(2)*, 366-366.

29. Woodman, G.F. & Vogel, E.K. (2005). Visual working memory consolidation is not slowed by concurrent maintenance. Paper delivered at the Vision Sciences Society 2005 Annual Meeting. Sarasota, FL.

30. Vogel, E.K., McCollough, A., Fair, J., & Woodman, G.F. (2005). Maintaining visual short-term memory representations across new object onsets. Paper delivered at the Vision Sciences Society 2005 Annual Meeting. Sarasota, FL.

31. Woodman, G.F. Kang, M.-S., Rossi, A.F., & Schall, J.D. (2005). Comparative psychophysiology: Macaque event-related potentials reveal anticipatory and stimulus-evoked components similar to those observed in humans. Talk delivered at the Society for Neuroscience 2005 Annual Meeting. Washington, D.C.

32. Boucher, L. & Woodman, G.F. (2005). Eye movements reveal strategic interactions between perceptual attention and visual working memory during visual search. Poster presented at the Psychonomic Society Annual Meeting. Toronto, Canada.

33. Woodman, G.F. Kang, M.-S., Rossi, A.F., & Schall, J.D. (2006). Bridging the gap between monkey and man: Event-related potentials reveal similarities to human indices of visual attention. Paper delivered at the Vision Sciences Society 2006 Annual Meeting. Sarasota, FL.

34. Woodman, G.F. & Boucher, L. (2006). Eye movements reveal strategic interactions between perceptual attention and visual working memory during visual search. Talk given at the Eleventh Annual Meeting of the Cognitive Science Association for Interdisciplinary Learning. Hood River, Oregon.

35. Cohen, J.Y., Pouget, P., Woodman, G.F. Rao, C., Schall, J.D., & Rossi, A.F. (2006). Multivariate analysis of Frontal Eye Field activity during visual search. Poster delivered at the Society for Neuroscience 2006 Annual Meeting. Atlanta, GA.

36. Woodman, G.F. Kang, M.-S., Sato, T., Thompson, K., & Schall, J.D. (2006). Visual search efficiency modulates the onset of response preparation: Neurophysiological evidence for discrete flow. Talk delivered at the Society for Neuroscience 2006 Annual Meeting. Atlanta, GA.

37. Kang, M.-S., Schall, J.D. & Woodman, G.F. (2006). Electroencephalographic and local-field potential gamma band activity is not reliably observed during spatial working memory maintenance in macaque monkeys. Poster delivered at the Society for Neuroscience 2006 Annual Meeting. Atlanta, GA.

38. Emeric, E.E., Pouget, P., Leslie, M., Woodman, G., Kang, M.-S., & Schall, J.D. (2006). Anterior cingulate local field potential delta and theta frequency bands are modulated by countermanding errors. Poster delivered at the Society for Neuroscience 2006 Annual Meeting. Atlanta, GA.

39. Woodman, G.F. Kang, M.-S., Sato, T., Thompson, K., & Schall, J.D. (2006). Neurophysiological evidence for discrete flow of information between stages of processing. Talk delivered at the Psychonomic Society Annual Meeting. Houston, TX.

40. Woodman, G.F., & Vogel, E.K. (2007). Top-down control of visual working memory consolidation. Talk delivered at the Psychonomic Society Annual Meeting. Long Beach, CA.

41. Cohen, J.Y., Pouget, P., Woodman, G.F. Rao, C., Schall, J.D., & Rossi, A.F. (2007). Visual search difficulty modulates the variability of spike timing in the frontal eye field. Poster presented at the Society for Neuroscience 2007 Annual Meeting. San Diego, GA.

42. Arita, J., & Woodman, G.F. (2008). Does gamma-band activity bind features when attention is focused on multiple-feature objects during visual search? Poster presented at the Vision Sciences Society 2008 Annual Meeting. Naples, FL.

43. Carlisle, N., Boucher, L. & Woodman, G.F. (2008). Strategic interactions between visual working memory and perceptual attention revealed by eye movements. Poster presented at the Vision Sciences Society 2008 Annual Meeting. Naples, FL.

44. Cohen, J.Y., Heitz, R.P., Schall, J.D., & Woodman, G.F. (2008). Attention in visual cortex occurs earlier than target selection in the frontal eye field. Talk delivered at the Vision Sciences Society 2008 Annual Meeting. Naples, FL.

45. Williams, M., & Woodman, G.F. (2008). Directed forgetting versus directed remembering in visual working memory. Poster presented at the Vision Sciences Society 2008 Annual Meeting. Naples, FL.

46. Heitz, R.P., Woodman, G.F. Pierre P., Cohen, J.Y., & Schall, J.D. (2008). Differences in response latency in the frontal eye field to luminance contrast indicate segregated processing of parvo- and magnocellular inputs. Poster presented at the Vision Sciences Society 2008 Annual Meeting. Naples, FL.

47. Woodman, G.F. Kang, M.-S., St. Clair, R., & Schall, J.D. (2008). Increases in gamma-band activity do not predict spatial working memory retention in macaque monkeys. Talk delivered at the Vision Sciences Society 2008 Annual Meeting. Naples, FL.

48. Cohen, J.Y., Heitz, R.P., Woodman, G.F., & Schall, J.D. (2008). Timing of target selection between visual cortex and frontal eye field. Talk delivered at the Society for Neuroscience 2008 Annual Meeting. Washington D.C.

49. Heitz, R.P., Cohen, J.Y., Woodman, G.F., & Schall, J.D. (2008). The effects of set size on neural selection time in frontal eye field. Poster presented at the Society for Neuroscience 2008 Annual Meeting. Washington D.C.

50. Williams, M., Pouget, P., Boucher, L., & Woodman, G.F. (2009). Indexing the maintenance of objects in visual working memory by spatial selection. Poster presented at the Vision Sciences Society 2009 Annual Meeting. Naples, FL.

51. Cohen, J.Y., Heitz, R.P., Woodman, G.F., & Schall, J.D. (2009). Frontal eye field activity before form visual search errors. Poster presented at the Vision Sciences Society 2009 Annual Meeting. Naples, FL.

52. Carlisle, N., & Woodman, G.F. (2009). Working memory guidance of attention depends on memory's relevance for search. Poster presented at the Vision Sciences Society 2009 Annual Meeting. Naples, FL.

53. Cohen, J.Y., Heitz, R.P., Woodman, G.F., & Schall, J.D. (2009). Neural variability in frontal eye field during visual search. Poster delivered at the Society for Neuroscience 2009 Annual Meeting. Chicago, IL.

54. Heitz, R.P., Nelson, M.J., Ferguson, K.E., Cohen, J.Y., Woodman, G.F., & Schall, J.D. (2009). Coherence of neurons and networks in frontal eye field. Poster delivered at the Society for Neuroscience 2009 Annual Meeting. Chicago, IL.

55. Ferguson, K.E., Heitz, R.P., Cohen, J.Y., Woodman, G.F., & Schall, J.D. (2009). Saccade endpoint scatter during form visual search. Poster presented at the Society for Neuroscience 2009 Annual Meeting. Chicago, IL.

56. Woodman, G.F., Heitz, R.P., Cohen, J.Y., Arita, J.T., Kang, M.-K., & Schall, J.D. (2009). Covert attentional selection in monkey and man: Bridging the gap reveals underlying neural circuitry. Talk delivered at the Psychonomic Society Annual Meeting. Boston, MA.

57. Carlisle, N., & Woodman, G.F. (2010). Do visual working memory representations automatically bias deployments of covert attention? Poster presented at the Vision Sciences Society 2010 Annual Meeting. Naples, FL.

58. Purcell, B., Heitz, R.P., Cohen, J.Y., Woodman, G.F., & Schall, J.D. (2010). Timing of attentional selection in frontal eye field and event-related potentials over visual cortex during pop-out search. Poster presented at the Vision Sciences Society 2010 Annual Meeting. Naples, FL.

59. Arita, J.T., & Woodman, G.F. (2010). Simultaneous neurophysiological measurement of perceptual and response selection stages of processing during visual search. Poster presented at the Vision Sciences Society 2010 Annual Meeting. Naples, FL.

60. Williams, M., & Woodman, G.F. (2010). Using eye movements to measure attention to objects and features in visual working memory. Poster presented at the Vision Sciences Society 2010 Annual Meeting. Naples, FL.

61. Kang, M.-S., & Woodman, G.F. (2010). Interactions between motion perception and visual working memory. Poster presented at the Vision Sciences Society 2010 Annual Meeting. Naples, FL.

62. Woodman, G.F. (2010). Direct electrophysiological measurement of the storage of attentional templates in visual working memory. Symposium talk delivered at the Psychonomic Society Annual Meeting. St. Louis, MO.

63. Carlisle, N.B. & Woodman, G.F. (2010). Event-related potentials demonstrate control over how the contents of working memory guide attention. Paper presented at the Psychonomic Society Annual Meeting. St. Louis, MO.

64. Segovis, C.M., Godlove, D.C., Young, M.H., Haitas, J., Woodman, G.F., & Schall, J.D. (2010). Cranial and cerebral locations of the 10/20 electrode system in the macaque. Poster presented at the Society for Neuroscience 2010 Annual Meeting. San Diego, CA.

65. Young, M.H., Heitz, R.P., Schall, J.D., & Woodman, G.F. (2010). Modeling the neural generators of monkey event-related potentials indexing covert shifts of attention. Poster presented at the Society for Neuroscience 2010 Annual Meeting. San Diego, CA.

66. Garr, A.K., Godlove, D.C., Woodman, G.F. & Schall, J.D. (2010). Pre-saccadic spike potentials in a saccade-countermanding task. Poster presented at the Society for Neuroscience 2010 Annual Meeting. San Diego, CA.

67. Woodman, G.F., Arita, J.T., Pardo, D., Carlisle, N.B., Williams, M. & Kang, M.-K. (2010). Direct electrophysiological measurement of the storage of attentional templates in human visual working memory. Paper presented at the Society for Neuroscience 2010 Annual Meeting. San Diego, CA.

68. Carlisle, N., & Woodman, G.F. (2011). Measuring the handoff of the attentional template from working memory to long-term memory. Talk delivered at the Vision Sciences Society 2011 Annual Meeting. Naples, FL.

69. Young, M.H., Heitz, R.P., Schall, J.D., & Woodman, G.F. (2011). Source localization of an event-related potential indexing covert shifts of attention in macaques. Poster presented at the Vision Sciences Society 2011 Annual Meeting. Naples, FL.

70. Kang, M.-S., Blake, R. & Woodman, G.F. (2011). Semantic analysis does not occur during interocular suppression in the absence of awareness. Poster presented at the Vision Sciences Society 2011 Annual Meeting. Naples, FL.

71. Williams, M., Hong, S. & Woodman, G.F. (2011). Forgetting in visual working memory. Poster presented at the Vision Sciences Society 2011 Annual Meeting. Naples, FL.

72. Carlisle, N.B. & Woodman, G.F. (2011). Is attention covertly shifted to an item matching a representation in working memory. Poster presented at the Society for Neuroscience 2011 Annual Meeting. Washington, D.C.

73. Kim, N., Godlove, D.C., Woodman, G.F. & Schall, J.D. (2011). Current source density analysis of visual and saccadic activity in supplementary eye field during saccade countermanding. Poster presented at the Society for Neuroscience 2011 Annual Meeting. Washington, D.C.

74. Godlove, D.C., Kim, N., Woodman, G.F. & Schall, J.D. (2011). Current source density analysis of error and feedback signals in supplementary eye field during saccade countermanding. Poster presented at the Society for Neuroscience 2011 Annual Meeting. Washington, D.C.

75. Haitas, J., Godlove, D.C., Schall, J.D. & Woodman, G.F. (2011). Automated placement of cranial surface electrodes in the 10-20 system for macaque monkeys. Poster presented at the Society for Neuroscience 2011 Annual Meeting. Washington, D.C.

76. Reinhart, R.M.G., Carlisle, N.B., Kang, M.-S. & Woodman, G.F. (2011). Error processing during saccade and manual stop-signal tasks in humans: Timing and source estimation. Poster presented at the Society for Neuroscience 2011 Annual Meeting. Washington, D.C.

77. Howell Young, M.S., Godlove, D.C., Emeric, E.E., Segovis, C.M., Reinhart, R.M.G., Schall, J.D. & Woodman, G.F. (2011). Error processing during a saccade stop-signal task in macaque

monkeys: Source estimation. Poster presented at the Society for Neuroscience 2011 Annual Meeting. Washington, D.C.

78. Kang, M.-S., DiRaddo, A., Logan, G.D. & Woodman, G.F. (2011). Electrophysiological evidence for preparatory reconfiguration before voluntary-task switches but not cued-task switches. Poster presented at the Society for Neuroscience 2011 Annual Meeting. Washington, D.C.

79. Williams, M., Hong, S. & Woodman, G.F. (2011). Visual-spatial attention aids the maintenance of object representations in visual working memory. Poster presented at the Object Perception, Attention & Memory, Annual Meeting. Seattle, WA.

80. Arita, J.T., Carlisle, N.B. & Woodman, G.F. (2011). The dark side: Configuring attention to ignore task-irrelevant features. Poster presented at the Object Perception, Attention & Memory, Annual Meeting. Seattle, WA.

81. Williams, M. & Woodman, G.F. (2012). Forgetting in visual working memory. Poster presented at the Southeastern Psychological Association 2012 Annual Meeting. New Orleans, LA.

82. Ko, P., Duda, B., Hussey, E., Mason, E., Woodman, G.F., & Ally, B. (2012). The neural correlates of visual working memory decline in normal aging. Poster presented at the Vision Sciences Society 2012 Annual Meeting. Naples, FL.

83. Carlisle, N.B. & Woodman, G.F. (2012). The guidance of attention is dominated by task relevance and not simply maintenance in working memory. Talk delivered at the Vision Sciences Society 2012 Annual Meeting. Naples, FL.

84. Reinhart, R.M.G., Carlisle, N.B., Kang, M.-S. & Woodman, G.F. (2012). Homologous mechanisms of visuospatial working memory maintenance in macaque and human: Properties and sources. Talk delivered at the Vision Sciences Society 2012 Annual Meeting. Naples, FL.

85. Godlove, D.C., Maier, A.V., Woodman, G.F. & Schall, J.D. (2012). Laminar microcircuitry supporting error and reward processing in medial frontal cortex. Talk delivered at the Society for Neuroscience 2012 Annual Meeting. New Orleans, LA.

86. Carlisle, N.B., & Woodman, G.F. (2012). Electrophysiological measures of attentional enhancement and suppression of task-irrelevant working memory matches. Poster presented at the Society for Neuroscience 2012 Annual Meeting. New Orleans, LA.

87. Cosman, J.D., Woodman, G.F., & Vecera, S.P. (2012). Learned control over distraction is disrupted in medial temporal lobe amnesia. Poster presented at the Society for Neuroscience 2012 Annual Meeting, New Orleans, LA.

88. Reinhart, R.M.G., & Woodman, G.F. (2012). High stakes trigger the use of multiple memories to enhance cognitive control of attention. Poster presented at the Society for Neuroscience 2012 Annual Meeting, New Orleans, LA.

89. Kang, M.-K., & Woodman, G.F. (2012). Enhanced beta and gamma band phase coherence between hemispheres during visual working memory encoding. Poster presented at the Society for Neuroscience 2012 Annual Meeting, New Orleans, LA.

90. Fukuda, K., Woodman, G.F., & Vogel, E.K. (2012). Oscillatory mechanism underlying the VSTM capacity limit: In mind, out of phase. Poster presented at the Society for Neuroscience 2012 Annual Meeting, New Orleans, LA.

91. Kim, N., Schall, J.D. & Woodman, G.F. (2012). Nonhuman primate homologue of contingent negative variation. Poster presented at the Society for Neuroscience 2012 Annual Meeting, New Orleans, LA.

92. Woodman, G.F., Reinhart, R.M.G., & Carlisle, N.B. (2012). Handing off attentional templates from working memory to long-term memory. Talk delivered at the Psychonomic Society Annual Meeting. Minneapolis, MN.

93. Bilge, M.T., & Woodman, G.F. (2012). Location looks like any other feature during encoding into visual working memory. Poster presented at the Psychonomic Society Annual Meeting. Minneapolis, MN.

94. Reinhart, R.M.G. & Woodman, G.F. (2012). Oscillatory coupling reveals the dynamic reorganization of networks precessing reward, maintaining working memory and controlling attention. Poster presented at the Vision Sciences Society 2013 Annual Meeting. Naples, FL.

95. Fukuda, K. & Woodman, G.F. (2012). Oscillatory correlates of uploading long-term memory into visual working memory. Poster presented at the Vision Sciences Society 2013 Annual Meeting. Naples, FL.

96. Kang, M.-S. & Woodman, G.F. (2012). The contralateral delay activity is insensitive to microsaccades induced by increasing number of items in visual working memory. Poster presented at the Vision Sciences Society 2013 Annual Meeting. Naples, FL.

97. Park, H., Woodman, G.F. & Seiffert, A.E. (2013). Changing a memory is dissociable from forming a new memory. Poster presented at the Vision Sciences Society 2013 Annual Meeting. Naples, FL.

98. Willams, M. & Woodman, G.F. (2013). Discarding information from visual working memory. Poster presented at the Vision Sciences Society 2013 Annual Meeting. Naples, FL.

99. Reinhart, R.M.G. & Woodman, G.F. (2013). Noninvasive stimulation of medial-prefrontal cortex controls learning and performance monitoring. Poster presented at the Society for Neuroscience 2013 Annual Meeting, San Diego, CA.

100. Reinhart, R.M.G. & Woodman, G.F. (2013). Pushing and pulling current through medial-prefrontal cortex provides causal control of the neural processing of errors and learning rate. Talk delivered at the Psychonomic Society Annual Meeting. Toronto, Canada.

101. Maxcey, A.M., Fukuda, K. & Woodman G.F. (2013). Electrophysiological evidence that cues presented during short retention intervals influence the storage of objects in long-term memory. Paper presented at the Psychonomic Society Annual Meeting. Toronto, Canada.

102. Maxcey, A.M. & Woodman, G.F. (2014). Forgetting induced by recognition of visual images. Poster presented at the Vision Sciences Society 2014 Annual Meeting. St. Pete, FL.

103. Reinhart, R.M.G. & Woodman, G.F. (2014). Electrical stimulation improves visual attention by speeding the shift to control by long-term memory representations. Poster presented at the Vision Sciences Society 2014 Annual Meeting. St. Pete, FL.

104. Cosman, J.D., Schall, J.D., & Woodman, G.F. (2014). Macaque monkeys exhibit event-related potentials indexing distractor suppression during visual search. Poster presented at the Vision Sciences Society 2014 Annual Meeting. St. Pete, FL.

105. Fukuda, K. & Woodman, G.F. (2014). Forecasting and improving recognition memory using single-trial electrophysiology. Poster presented at the Psychonomic Society Annual Meeting. Long Beach, CA. **- Winner of the APA Division 3 Award: "Best Poster at Psychonomics 2014".**

106. Reinhart, R.M.G., Park, S., & Woodman, G.F. (2014). Medial-frontal stimulation controls action monitoring and learning in healthy and schizophrenia subjects. Talk delivered at the Object Perception, Attention & Memory, Annual Meeting. Long Beach, CA.

107. Fukuda, K., Schall, J.D., & Woodman, G.F. (2014). Event-related potentials and oscillatory activity indexing visual working memory capacity limits in nonhuman primates. Poster presented at the Society for Neuroscience 2014 Annual Meeting, Washington, D.C.

108. Cosman, J.D., Schall, J.D., & Woodman, G.F. (2014). Frontal eye field correlates of salient distractor suppression during visual search. Poster presented at the Society for Neuroscience 2014 Annual Meeting, Washington, D.C.

109. Reinhart, R.M.G., McClenahan, L.J. & Woodman, G.F. (2015). Visualizing trips vision when training attention. Talk delivered at the Vision Sciences Society 2015 Annual Meeting. St. Pete, FL.

110. Cosman, J.D. & Woodman, G.F. (2015). Electrophysiological indices of learned distractor suppression. Poster presented at the Vision Sciences Society 2015 Annual Meeting. St. Pete, FL.

111. Maxcey, A.M., Halvorson, K. & Woodman, G.F. (2015). Recognition-induced forgetting of objects is independent of remembering. Poster presented at the Vision Sciences Society 2015 Annual Meeting. St. Pete, FL.

112. Fukuda, K., Kang, M.-S. & Woodman, G.F. (2015). Electrophysiology reveals distinct neural mechanisms for lateralized and spatially global visual working memory representations. Poster presented at the Vision Sciences Society 2015 Annual Meeting. St. Pete, FL.

113. Maxcey, A.M., Dahab, R. & Woodman, G.F. (2015). Categorical and temporal grouping in recognition-induced forgetting. Poster presented at the Psychonomic Society 2015 Annual Meeting. Chicago, IL.

114. Cosman, J.D., Zinke, W., Woodman, G.F. & Schall, J.D. (2015). Comparison of saccade target selection in frontal and premotor eye fields of macaques. Poster presented at the Society for Neuroscience 2015 Annual Meeting, Chicago, IL.

115. Zinke, W., Cosman, J.D., Woodman, G.F. & Schall, J.D. (2015). A premotor eye field in the arcuate sulcus of macaque monkeys - comparison with frontal eye field. Poster presented at the Society for Neuroscience 2015 Annual Meeting, Chicago, IL.

116. Reinhart, R.M.G., Zhu, J., Park, S., & Woodman, G.F. (2015). Synchronizing brain rhythms with electrical stimulation improves adaptive control in healthy people and those with schizophrenia. Poster presented at the Society for Neuroscience 2015 Annual Meeting, Chicago, IL.

117. Schall, M.S., Zinke, W., Woodman, G.F. & Schall, J.D. (2015). Prevalence of an arcuate spur in macaques. Poster presented at the Society for Neuroscience 2015 Annual Meeting, Chicago, IL.

118. Fukuda, K., Schall, J.D. & Woodman, G.F. (2015). Dissociable electrophysiological correlates of proactive and reactive control during response inhibition. Poster presented at the Society for Neuroscience 2015 Annual Meeting, Chicago, IL.

119. Reinhart, R.M.G. & Woodman, G.F. (2015). Synchronizing brain rhythms with electrical stimulation improves adaptive control in healthy people and those with schizophrenia. Neurodiagnostic Society, Tennessee Chapter. Symposium Talk.

120. Xiao, W., Reinhart, R.M.G. & Woodman, G.F. (2015). Noninvasive brain stimulation improves visual hyperacuity in humans. Tennessee Psychological Association Annual Convention. Poster.

121. Reinhart, R.M.G., Logan, G.D. & Woodman, G.F. (2016). Attention's gas pedal. Symposium talk delivered at the international meeting of the Psychonomic Society. Granada, Spain.

122. Fukuda, K. & Woodman, G.F. (2016). Oscillatory correlates of visual working memory uploaded from long-term memory. Talk delivered at the international meeting of the Psychonomic Society. Granada, Spain.

123. Reinhart, R.M.G., Xiao, W., McClanahan, L., Woodman, G.F. (2016). Electrical stimulation over occipital cortex improves visual acuity. Poster presented at the international meeting of the Psychonomic Society. Granada, Spain.

124. Cosman, J.D., Schall, J.D. & Woodman, G.F. (2016). Frontal eye field sources of attentional suppression during visual search. Talk delivered at the Vision Sciences Society 2016 Annual Meeting. St. Pete, FL.

125. Weaver, T.P. & Woodman, G.F. (2016). Does attention look to visual working memory for guidance when we are about to search for something new? Poster presented at the Vision Sciences Society 2016 Annual Meeting. St. Pete, FL.

126. Fukuda, K. & Woodman, G.F. (2016). Oscillatory correlates of visual working memories uploaded from long-term memory. Talk delivered at the Vision Sciences Society 2016 Annual Meeting. St. Pete, FL.

127. Ko, P.C., Woodman, G.F., & Ally, B.A. (2016). Selective attention to visual working memory representations in older and younger adults. Talk delivered at the International Conference on Memory 6. Budapest, Hungary.

128. Woodman, G.F., & Reinhart, R.M.G. (2016). Measuring the interplay of long-term memory and working memory as they control attention. Abstract accepted for a talk at the International Conference on Memory 6. Budapest, Hungary.

129. Fukuda, K. & Woodman, G.F. (2016). Predicting and improving recognition memory using single-trial electrophysiology. Talk delivered at the International Conference on Memory 6. Budapest, Hungary.

130. Schall, J.D., Godlove, D.C., Woodman, G.F. (2016). Contributions of supplementary eye field and anterior cingulate cortex to performance monitoring during saccade countermanding. International Journal of Psychophysiology, 108, 12-12.

131. Servant, M., Logan, G.D., & Woodman, G.F. (2017). Neural bases of automaticity. Poster presented at the Society for Neuroscience 2017 Annual Meeting, Washington, D.C.

132. Fukuda, K., Sundby, C., & Woodman, G.F. (2017). Parieto-occipital alpha power dynamics selectively code for the storage of spatial locations in visual working memory. Presented at the Vision Sciences Society 2017 Annual Meeting. St. Pete, FL.

133.Servant, M., Cassey, P., Woodman, G.F. & Logan, G.D. (2017). Neural bases of automaticity. Presented at the Vision Sciences Society 2017 Annual Meeting. St. Pete, FL.

134.Sundby, C., Woodman, G.F. & Fukuda, K. (2017). The costs and benefits of top-down control over visual long-term memory encoding. Presented at the Vision Sciences Society 2017 Annual Meeting. St. Pete, FL.

135.Woodman, G.F. & Reinhart, R.M.G. (2017). Improving vision with transcranial direct-current stimulation. Presented at the Vision Sciences Society 2017 Annual Meeting. St. Pete, FL.

136. Glenn, H. & Woodman, G.F. (2017). The adaptation and recovery of visual event-related potentials. Presented at the Vision Sciences Society 2017 Annual Meeting. St. Pete, FL.

137.Roper, Z.J.J., Schall, J.D. & Woodman, G.F. (2017). Electrophysiological indices of target selection and distractor suppression under varying perceptual load: Evidence for spreading suppression. Presented at the Vision Sciences Society 2017 Annual Meeting. St. Pete, FL.

138.Santee, S., Roper, Z.J.J., Woodman, G.F., Fukuda, Z. (2017). Electrophysiological indices of visual-driven attentional capture extinction. Presented at the Vision Sciences Society 2017 Annual Meeting. St. Pete, FL.

139. Maxcey, A.M., Glenn, H. & Woodman, G.F. (2017). Recognition-induced forgetting of pictures and words are differentially affected by cathodal transcranial direct-current stimulation. Brain Stimulation 2017, Barcelona, Spain.

140.Woodman, G.F. & Fukuda, K. (2017). Using alpha activity to track the encoding and retrieval of visual information from memory. Talk delivered at the Psychonomic Society Annual Meeting. Vancouver, Canada.

141.Rajsic, J., Zhao, C. & Woodman, G.F. (2018). We remember what we are looking for more precisely when we expect to perform a more difficult visual search. Presented at the Vision Sciences Society 2018 Annual Meeting. St. Pete, FL.

142.Burton, J., Rajsic, J. & Woodman, G.F. (2018). The electrophysiological marker of visual working memory storage is apparent for verbalizable stimuli. Presented at the Vision Sciences Society 2018 Annual Meeting. St. Pete, FL.

143.Itthipuripat, S. & Woodman, G. F. (2018). Context triggers the retrieval of targets stored in long-term memory. Talk delivered at the Society for Neuroscience 2018 Annual Meeting, San Diego, CA.

144.Sundby, C. & Woodman, G.F. (2018). The neuroscience of legal evidentiary rules: Using electroencelphalgraphy to test whether contemporaneity is a safeguard against deceit. Poster presented at the Society for Neuroscience 2018 Annual Meeting, San Diego, CA.

145.Wang, S., Itthipuripat, S., Correia, B. & Woodman, G.F. (2018). Electrical stimulation over the parietal parietal cortex alters the distribution of attention priority maps in human visual cortex. Poster presented at the Society for Neuroscience 2018 Annual Meeting, San Diego, CA.

146.Itthipuripat, S. & Woodman, G. F. (2018). Context triggers the retrieval of long-term memories to guide attention. Talk delivered at the Psychonomic Society Annual Meeting. New Orleans, LA.

147.Cao, R., Busey, T., Nosofsky, R., Shiffrin, R. & Woodman, G. F. (2018). Tracking the development of automaticity in memory search with human electrophysiology. Poster presented at the Psychonomic Society Annual Meeting. New Orleans, LA.

148.Shi, L., Sun, Z., Woodman, G.F., Zhang, P. & He, S. (2019). Lateralized occipitotemporal tDCS modulates dynamics of binocular rivalry between faces and words. Presented at the Vision Sciences Society 2019 Annual Meeting. St. Pete, FL.

149.Westerberg, J.A., Woodman, G.F., Maier, A. & Schall, J.D. (2019). Performance monitoring signals visual priming. Presented at the Vision Sciences Society 2019 Annual Meeting. St. Pete, FL.

150.Sundby, C.S. & Woodman, G.F. (2019). Does lying require more or less visual working memory and what does it mean for the legal system? Presented at the Vision Sciences Society 2019 Annual Meeting. St. Pete, FL.

151. Rajic,J.& Woodman, G.F. (2019). What not to look for: Electrophysiological evidence that searchers prefer positive templates. Presented at the Vision Sciences Society 2019 Annual Meeting. St. Pete, FL.

152. Wang, S. Rajsic, J. & Woodman, G.F. (2019). The contralateral delay activity tracks the storage of sequentially presented colors and letters. Presented at the Vision Sciences Society 2019 Annual Meeting. St. Pete, FL.

153.Herrera, B., Sajad, A., Woodman, G.F., Schall, J.D. & Riera, J.J. (2019). Microcircuitry of agranular frontal cortex: A stochastic 2-compartment model of neocortical pyramidal cells. Presented at the Society for Neuroscience Annual Meeting, 2019, Chicago, IL.

154.Doubnia, R., Sajad, A., Herrera, B., Schall, J.D., Riera, J.J. & Woodman, G.F., (2019). Microcircuitry of agranular frontal cortex: A stochastic 2-compartment model of neocortical pyramidal cells. Presented at the Society for Neuroscience Annual Meeting, 2019, Chicago, IL.

155.Sutterer, D.W. & Woodman, G.F., (2019). Alpha-band activity finely tracks remembered locations within a visual hemifield. Presented at the Society for Neuroscience Annual Meeting, 2019, Chicago, IL.

156.Schall, M.S., Westerberg, J.A., Maier, A. V., Schall, J.D. & Woodman, G.F., (2019). Contribution of area V4 to the N2pc event-related potential index of attention. Presented at the Society for Neuroscience Annual Meeting, 2019, Chicago, IL.

157.Woodman, G.F., Wang, S. & Rajic, J. (2019). The contralateral delay activity tracks the storage of objects in working memory while alpha activity tracks the focus of attention, Presented at the Psychonomic Society Annual Meeting, 2019, Montreal, CN.

158. Zhao, C. & Woodman, G.F. (2020). Causal manipulation of activity in the ventral visual stream changes visual long-term memory storage. Presented at the Virtual Vision Sciences Society Annual Meeting.

159. Sutterer, D. & Woodman, G.F. (2020). Alpha-band activity selectively tracks targets but not distractors following spatial cues. Presented at the Virtual Vision Sciences Society Annual Meeting.

160. Schall, M., Westerberg, J., Maier, A. Schall, J. & Woodman, G.F. (2020). Laminar origins of the N2pc index of visual attention in area V4. Presented at the Virtual Vision Sciences Society Annual Meeting.

161. Megla, E.E., Wang, S. & Woodman, G.F. (2020). Global alpha suppression indexes the zoom lens of attention. Presented at the Virtual Vision Sciences Society Annual Meeting.

162. Itthipuripat, S., Stoermer, V., Woodman, G.F. & Serences, J. (2020). Dissociable neural mechanisms underlie effects of attention on visual appearance and response bias. Presented at the Virtual Vision Sciences Society Annual Meeting.

163. Rosca, C.G., Sutterer, D. & Woodman, G.F. (2020). Using the continuos-report task to measure visual memory precision is immune to motor noise. Presented at the Virtual Vision Sciences Society Annual Meeting.

164. Sutterer, D. & Woodman, G.F. (2020). Electrophysiological tracking of spatial attention during memory encoding and retrieval. Presented at the Virtual Psychonomic Society Annual Meeting.

165. Zhao, C. & Woodman, G.F. (2020). Evidence that neural plasticity underlies transcranial direct-current stimulation (tDCS) in humans. Presented at the Virtual Psychonomic Society Annual Meeting.

Teaching

Spring 1998, Teaching Assistant, University of Iowa
031:119 Memory & Cognition
031:012 Fundamentals of Behavioral Neuroscience

Spring 1999, Teaching Assistant, University of Iowa
031:133 Sensation & Perception

Summer 1999, Visiting Research Scientist, Universitat Otto-von-Guericke
Clinic of Neurology II
Magdeburg, Germany

Fall 1999, Guest Lecturer, University of Iowa
031:190 Senior Seminar: Attention - "Visual search and attention"

Summer 2000, Instructor, University of Iowa
031:016 Introduction to Cognitive Psychology

Spring 2001, Guest Lecturer, University of Iowa
031:016 Introduction to Cognitive Psychology - "The brain and attention: Deficits of attention"

Fall 2002, Guest Lecturer, Vanderbilt University
Psych:216 Movement - "The role of covert attention in determining where the eyes move"

Spring 2003, Guest Lecturer, Vanderbilt University
Psych:232 Cognitive Neuroscience - "The use of neuroscientific methods in the study of attention"

Fall 2004, Guest Lecturer, Vanderbilt University
Psych:216 Movement - "Movement Disorders"

Fall 2004, Guest Lecturer, Vanderbilt University
Psych:241 The History of Neuroscience - "Brainwaves: The history of recorded scalp potentials"

Fall 2005, Guest Lecturer, Vanderbilt University
Psych:241 The History of Neuroscience - "Brainwaves: The history of recorded scalp potentials"

Fall 2006, Guest Lecturer, Vanderbilt University
Psych:241 The History of Neuroscience - "Brainwaves: The history of scalp potentials"

Fall 2007, Guest Lecturer, Vanderbilt University
Psych:241 The History of Neuroscience - "Brainwaves: The history of scalp potentials"

Spring 2008, Instructor, Vanderbilt University
Psych:251 How the Mind Works

Spring 2009 - 2013, Instructor, Vanderbilt University
Psych:344 Graduate Neuroscience Seminar: Electrophysiological Techniques

Fall 2009 - 2015, Instructor, Vanderbilt University
Psych:225 Cognitive Psychology (enrollment grew from 25 to 225 per semester)

Spring 2011, Instructor, Vanderbilt University
Psych:344 Neuroscience Seminar: Electrophysiological Techniques

Spring 2011, Guest Lecturer, Vanderbilt University
Psych:236 The Visual System - "Visual working memory for objects and locations" & “Object recognition”

Spring 2011, Guest Lecturer, Vanderbilt University
Psych:282 Foundations of Human Memory - "Neural networks underlying long-term memory”

Spring 2013, Instructor, Vanderbilt University
Psych:350 Scientific Writing in Psychology and Neuroscience

Fall 2013, Instructor, Vanderbilt University
Psych:344 Neuroscience Seminar: Electrophysiological Techniques

Spring 2014, Instructor, Vanderbilt University
Psych:99 How to Use Cognitive Psychology to be a Better Student

Spring 2015 - present (spring semesters), Instructor, Vanderbilt University
Psych:236 The Visual System

Fall 2015 - present (Fall semesters), Instructor, Vanderbilt University
Psych:301 Research Seminar (1st year graduates)

Departmental and Institutional Service

SONA (web-based experiment signup system) faculty supervisor, 2008-2020

Colloquium Committee, Department of Psychology, 2008-2019

Served on Neuroscience Faculty Search Committee, Department of Psychology, Vanderbilt University, 2012-2013.

Graduate Faculty Assembly Delegate, 2012-present

Psychology Department Library Representative, 2012-present

Alternate VUceptor for Vanderbilt Visions, 2013

Graduate Studies Committee, Department of Psychology, 2013-2015

Committee on Graduate Education, Vanderbilt Graduate School, 2014-2016

Director of Graduate Studies, Department of Psychology, 2015-present

Director of Vanderbilt Vision Research Center Training Grant (T32 from NEI) 2015-present

At the University of Iowa, graduate training:

Served on Cognition & Perception Graduate Admissions Committee, 2000

Served on Cognition & Perception Faculty Search Committee, 2000-2001

Invited Talks

Virje Universiteit, Amsterdam NL, "Converging evidence for independent visual working memory stores for object identity and location." 2003
The University of Amsterdam NL, "Interactions between perception and working memory during visual search." 2003
Munich Visual Search Symposium, Munich DE, "Event-related potentials reveal serial shifts of attention during inefficient visual search." 2003
Yale University, "Exploring visual working memory consolidation and maintenance." 2004
University of Oregon, "Visual search efficiency modulates the onset of response preparation: Neurophysiological evidence for discrete flow." 2006
National Central University of Taiwan, Cognitive Neuroscience Summer Workshop,
7/12 8:30-10 AM 2007
"Using event-related potentials to study attentional deployment in monkey and man."
7/12 3:30-5 PM 2007
"Selection for access to perception and working memory."
University of Oregon, "Bridging the gap between monkey and human electrophysiology: Toward the localization of event-related potential components." 2008
Invited speaker, 5th International Congress on Memory (ICOM5), The University of York, England 7/31-8/5. 2011
Manchester University, "Measuring the use of visual working memory representations to guide attention." 2012
Munich Visual Search Symposium III, Munich DE, 7/20-7/23 2012
Zif research group, Bielefeld DE, 10/9/2012 - 6/15/2013.
Indiana University, "Measuring the use of visual working memory representations to guide attention." 11/22/2012.
Zif research group, Bielefeld DE, 5/5/2013 - 6/7/2013.
Virje Universiteit, Amsterdam NL, "Controlling cognitive control". 5/29/2013.
Johns Hopkins University, "Controlling mechanisms of cognitive control". 10/9/2013.
University of Illinois, Urbana-Campaign, 3/5/2014.
Zif research group, Bielefeld DE, 3/17/2014 - 3/20/2014.
University of Texas, Austin, 9/4/2015.
The Ohio State University, 10/21/2016.

Brown University, 10/17/2017
Hong Kong Polytechnic University, 11/5/2017
Utrecht University, Utrecht NL, 4/12/18
Virje Universiteit, Amsterdam NL, 4/21/18
Sepineza University of Rome IT, 5/31/18
L'Aquila University, L'Aquila IT, 6/1/18
University of Delaware, 7/24/19

Mentoring

Current Lab Members:
David Sutterer (postdoc)
L. Forest Gruss (postdoc)
Christopher Sundby (Neuro-Law grad student)

Graduate Committees:
David Simon (Chair)
Lauren Bryant
Jean-Paul Noel
Kristy Snyder
Dakota Lindsey
Jianghong (May) Shen

Previous Trainees:
Nancy Carlisle, former graduate student (Tenure-track Faculty, Lehigh University)
Melonie Williams, former graduate student (Faculty, Valencia College) - NSF recipient
Robert Reinhart, former graduate student (Tenure-track Faculty, Boston University) - NRSA recipient
M. Taha Bilge, former graduate student (Postdoctoral Fellow, Harvard University)
Allan J. Heritage, former graduate student (Lecturer, Tennessee State University) - NRSA recipient
Min-Suk Kang, former postdoc (Tenure-track Faculty, Sungkyunkwan University, South Korea)
Keisuke Fukuda, former postdoc (Tenure-track Faculty, University of Toronto Missassagua)
Josh Cosman, former postdoc (Research Executive, Pfizer Inc., Cambridge MA) - NRSA recipient
Philip Ko, former postdoc (co-advisee with Brandon Ally, Austin Peay State University) - NRSA recipient
Mathieu Servant, former postdoc (Tenure-track Faculty, Besancon University)
Zach J.J. Roper, former postdoc (Bitcoin funds)
Jason Rajsic, former postdoc (Tenure-track Faculty, University of Northumbria, UK)

Former Undergrads and Research Assistants:
Deborah Pardo – Pharm. D. Program, University of the Pacific
Rachel Riti – Ph.D program in Biomedical Engineering, Clemson University
Donald Bruce Ross III – graduate program in counseling, University of Maryland
Mimi Zhang - Ph.D program in Clinical Psychology, University of Mississippi
Julianna Ianni - Ph.D program in Biomedical Engineering, Vanderbilt University

Adrienne DiRaddo - RN program in Psychiatric Nursing, Vanderbilt University
Jennifer Hersh - Occupational Therapy Program, Tuffs University
Jamie Coffino - Masters in Public Health, Columbia University
Laura McClanahan - Ph.D program in Clinical Psychology, University of Houston
Mackenzie Bird - M.D. program, Tulane University

Professional Organizations

American Psychological Association, member since 2014 (post torture)
American Physiological Society, member since 2009
Cognitive Neuroscience Society, member 1998-2002
Psychonomic Society, member since 2002
Society for Neuroscience, member since 2004
Society for Psychophysiological Research, member since 2014
Vision Sciences Society, member since 2000

Special Recognition during Education

Phi Eta Sigma, Freshman Honors Society, University of Iowa, 1994

Psi Chi, Undergraduate Psychological Honors Society, inducted fall 1996

Tuition scholarships, Department of Psychology, University of Iowa, 1999 & 2000

Lewis Award, University of Iowa Graduate Student Award for Excellence in Experimental Psychology, 2002