

CURRICULUM VITAE STEVEN J. LUCK

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EDUCATIONAL AND PROFESSIONAL HISTORY

1. Higher Education

Ph.D.	University of California, San Diego Neurosciences, 1993
M.S.	University of California, San Diego Neurosciences, 1989
B.A.	Reed College Psychology, 1986

2. Professional and Academic Positions

2010-	Director, Center for Mind & Brain	University of California, Davis
2009-2010	Interim Director, Center for Mind & Brain	University of California, Davis
2006-	Professor of Psychology	University of California, Davis
2002-2006	Professor of Psychology	University of Iowa
1998-2002	Associate Professor of Psychology	University of Iowa
1994-1998	Assistant Professor of Psychology	University of Iowa
1993-1994	Assistant Project Scientist	University of California, San Diego
1993	Visiting Scientist	Laboratory of Neuropsychology, NIMH/NIH
1990-1993	Graduate Research Fellow	University of California, San Diego
1989-1990	Visiting Asst. Professor of Psychology	Reed College
1986-1989	Graduate Research Fellow	University of California, San Diego
1983-1984	Research Assistant	Oregon Regional Primate Research Center

3. Awards and Honors

Fellow of the American Association for the Advancement of Science, 2012
 Fellow of the Society of Experimental Psychologists, 2010
 James McKeen Cattell Sabbatical Award, 2004-2005
 American Psychological Foundation F. J. McGuigan Young Investigator Prize, 2002
 Troland Award in Experimental Psychology, National Academy of Sciences, 2001
 Fellow of the American Psychological Association, Division 3, Experimental Psychology, 2001
 Fellow of the American Psychological Association, Division 6, Behavioral Neuroscience and Comparative Psychology, 2005
 APA Distinguished Scientific Award for Early Career Contribution to Psychology in the area of Behavioral and Cognitive Neuroscience, 1998/1999
 McDonnell-Pew Cognitive Neuroscience Fellowship, UCSD, 1990-92
 NSF Graduate Fellowship, UCSD, 1986-89
 Phi Beta Kappa, Reed College, 1986

4. Memberships

Fellow, American Association for the Advancement of Science
 Fellow, Society of Experimental Psychologists
 Fellow, American Psychological Association (Divisions 3 and 6)
 Member, Psychonomic Society
 Member, Society for Neuroscience
 Member, Cognitive Neuroscience Society
 Member, Vision Sciences Society
 Member, International Association for the Study of Attention & Performance

SCHOLARSHIP

1. Publications

Books

1. Luck, S. J. (forthcoming in 2014). An Introduction to the Event-Related Potential Technique, Second Edition. Cambridge, MA: MIT Press.
2. Luck, S. J. & Kappenman, E.S. (Eds.) (2012). *The Oxford Handbook of Event-Related Potential Components*. New York: Oxford University Press.
3. Luck, S. J. (2009). 事件相关电位基础 (An Introduction to the Event-Related Potential Technique, Simplified Chinese Translation). Shanghai: East China Normal University Press.
4. Gazzaniga, M.S. (Ed.) (2009). *The Cognitive Neurosciences, 4th Edition* [S.J. Luck & G.R. Mangun, editors of Attention section]. Cambridge, MA: MIT Press.
5. Luck, S. J. & Hollingworth, A. (Eds.) (2008). *Visual Memory*. New York: Oxford University Press.
6. Luck, S. J. (2005). An Introduction to the Event-Related Potential Technique. Cambridge, MA: MIT Press.

Journal Articles

1. Hollingworth, A., Matsukura, M., & Luck, S. J. (in press). Visual Working Memory Modulates Rapid Eye Movements to Simple Onset Targets. *Psychological Science*.
2. Keil, A., Debener, S., Gratton, G., Junhöfer, M., Kappenman, E. S., Luck, S. J., Luu, P., Miller, G., & C.M., Y. (in press). Publication guidelines and recommendations for studies using electroencephalography and magnetoencephalography. *Psychophysiology*.
3. Kwon, M.-K., Oakes, L. M., & Luck, S. J. (in press). Visual short-term memory for complex objects in 6- and 8-month-old infants. *Child Development*.
4. Leonard, C. J., Lopez-Calderon, J., Kreither, J., & Luck, S. J. (in press). Rapid feature-driven changes in the attentional window. *Journal of Cognitive Neuroscience*.
5. Luck, S. J., & Vogel, E. K. (in press). Visual Working Memory Capacity: From Psychophysics and Neurobiology to Individual Differences. *Trends in Cognitive Sciences*.
6. Sawaki, R., & Luck, S. J. (2013). Active suppression after involuntary capture of attention. *Psychonomic Bulletin & Review*, 20, 296-301.

7. Barch, D. M., Carter, C. S., Dakin, S. C., Gold, J. M., Luck, S. J., MacDonald III, A., Ragland, J. D., Silverstein, S., & Strauss, M. E. (2012). The Clinical Translation of a Measure of Gain Control: the Contrast-Contrast Effect Task. *Schizophrenia Bulletin*, *38*, 135-143.
8. Barch, D. M., Moore, H., Nee, D. E., Manoach, D. S., & Luck, S. J. (2012). CNTRICS imaging biomarkers selection: Working memory. *Schizophrenia Bulletin*, *38*(1), 43-52.
9. Beck, V. M., Hollingworth, A., & Luck, S. J. (2012). Simultaneous Control of Attention by Multiple Working Memory Representations. *Psychological Science*, *23*, 887-898.
10. 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*, *12*, 70-75.
11. Hahn, B., Robinson, B. M., Kaiser, S. T., Matveeva, T. M., Harvey, A. N., Luck, S. J., & Gold, J. M. (2012). Kraepelin and Bleuler had it right: People with schizophrenia have deficits sustaining attention over time. *Journal of Abnormal Psychology*, *121*, 641-648.
12. Kappenman, E. S., Kaiser, S. T., Robinson, B. M., Morris, S. E., Hahn, B., Beck, V. M., Leonard, C. J., Gold, J. M., & Luck, S. J. (2012). Response activation impairments in schizophrenia: Evidence from the lateralized readiness potential. *Psychophysiology*, *49*, 73-84.
13. Leonard, C. J., Kaiser, S. T., Robinson, B. M., Kappenman, E. S., Hahn, B., Gold, J. M., & Luck, S. J. (2012). Toward the neural mechanisms of reduced working memory capacity in schizophrenia. *Cerebral Cortex*.
14. Lin, P.-H., & Luck, S. J. (2012). Proactive interference does not meaningfully distort visual working memory capacity estimates in the canonical change detection task. *Frontiers in Psychology*, *3*:42, 1-9.
15. Sawaki, R., Geng, J. J., & Luck, S. J. (2012). A common neural mechanism for preventing and terminating attention. *Journal of Neuroscience*, *32*, 10725-10736.
16. 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.
17. Gamble, M. L., & Luck, S. J. (2011). N2ac: An ERP component associated with the focusing of attention within an auditory scene. *Psychophysiology*, *48*.
18. Gibson, B., Wasserman, E., & Luck, S. J. (2011). Qualitative similarities in the visual short-term memory of pigeons and people. *Psychonomic Bulletin & Review*, *18*, 979-984.
19. Hahn, B., Kappenman, E. S., Robinson, B. M., Fuller, R. L., Luck, S. J., & Gold, J. M. (2011). Iconic decay in schizophrenia. *Schizophrenia Bulletin*, *37*, 950-957.
20. Hahn, B., Robinson, B. M., Harvey, A. N., Kaiser, S. T., Leonard, C. J., Luck, S. J., & Gold, J. M. (2011). Visuospatial attention in schizophrenia: Deficits in broad monitoring. *Journal of Abnormal Psychology*.
21. Kappenman, E. S., & Luck, S. J. (2011). Manipulation of orthogonal neural systems together in electrophysiological recordings: The MONSTER approach to efficient neurocognitive assessment. *Schizophrenia Bulletin*, *38*, 92-102.
22. Leonard, C. J., & Luck, S. J. (2011). The role of magnocellular signals in oculomotor attentional capture. *Journal of Vision*, *11*, 1-12.
23. Luck, S. J., Ford, J. M., Sarter, M., & Lustig, C. (2011). CNTRICS final biomarker selection: Control of attention. *Schizophrenia Bulletin*. doi: 10.1093/schbul/sbr065

24. Luck, S. J., Mathalon, D. H., O'Donnell, B. F., Spencer, K. M., Javitt, D. C., Ulhaas, P. F., & Hämäläinen, M. S. (2011). A roadmap for the development and validation of ERP biomarkers in schizophrenia research. *Biological Psychiatry, 70*, 28-34.
25. Oakes, L. M., Hurley, K. B., Ross-Sheehy, S., & Luck, S. J. (2011). Developmental changes in infants' visual short-term memory for location. *Cognition, 118*, 293-305.
26. Ross-Sheehy, S., Oakes, L. M., & Luck, S. J. (2011). Exogenous attention influences visual short-term memory in infants. *Developmental Science, 14*, 490-501.
27. Sawaki, R., & Luck, S. J. (2011). Active suppression of distractors that match the contents of visual working memory. *Visual Cognition, 19*, 956-972.
28. Zhang, W., & Luck, S. J. (2011). The Number and Quality of Representations in Working Memory. *Psychological Science, 22*, 1434-1441.
29. Gold, J. M., Hahn, B., Zhang, W., Robinson, B. M., Kappenman, E. S., Beck, V. M., & Luck, S. J. (2010). Reduced capacity but spared precision and maintenance of working memory representations in schizophrenia. *Archives of General Psychiatry, 67*, 570-577.
30. Hahn, B., Robinson, B. M., Kaiser, S. T., Harvey, A. N., Beck, V. M., Leonard, C. J., Kappenman, E. S., Luck, S. J., & Gold, J. M. (2010). Failure of schizophrenia patients to overcome salient distractors during working memory encoding. *Biological Psychiatry, 68*, 603-609.
31. Kappenman, E. S., & Luck, S. J. (2010). The effects of electrode impedance on data quality and statistical significance in ERP recordings. *Psychophysiology, 47*, 888-904.
32. Sawaki, R., & Luck, S. J. (2010). Capture versus suppression of attention by salient singletons: Electrophysiological evidence for an automatic attend-to-me signal. *Attention, Perception, & Psychophysics, 72*, 1455-1470.
33. Toscano, J. C., McMurray, B., Dennhardt, J., & Luck, S. J. (2010). Continuous perception and graded categorization: Electrophysiological evidence for a linear relationship between the acoustic signal and perceptual encoding of speech. *Psychological Science, 21*, 1532-1540.
34. Woodman, G. F., & Luck, S. J. (2010). Why is information displaced from visual working memory during visual search? *Visual Cognition, 18*, 275-295.
35. 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.
36. 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.
37. Johnson, J. S., Spencer, J. P., Luck, S. J., & Schöner, G. (2009). A dynamic neural field model of visual working memory and change detection. *Psychological Science, 20*, 568-577.
38. Luck, S. J., Kappenman, E. S., Fuller, R. L., Robinson, B., Summerfelt, A., & Gold, J. M. (2009). Impaired response selection in schizophrenia: Evidence from the P3 wave and the lateralized readiness potential. *Psychophysiology, 46*, 776-786.
39. Nuechterlein, K. H., Luck, S. J., Lustig, C., & Sarter, M. (2009). CNTRICS final task selection: Control of attention. *Schizophrenia Bulletin, 35*, 182-196.
40. 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.
41. Zhang, W., & Luck, S. J. (2009). Sudden death and gradual decay in visual working memory. *Psychological Science, 20*, 423-428.

42. Zhang, W., & Luck, S. J. (2009). Feature-based attention modulates feedforward visual processing. *Nature Neuroscience*, *12*, 24-25.
43. 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.
44. 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.
45. Lin, P.-H., & Luck, S. J. (2008). The influence of similarity on visual working memory representations. *Visual Cognition*, *17*, 356-372.
46. Luck, S. J., & Gold, J. M. (2008a). The construct of attention in schizophrenia. *Biological Psychiatry*, *64*, 34-39.
47. Luck, S. J., & Gold, J. M. (2008b). The translation of cognitive paradigms for patient research. *Schizophrenia Bulletin*, *34*, 629-644.
48. Oakes, L.M., Messenger, I.M., Ross-Sheehy, S., & Luck, S.J. (2009). New evidence for rapid development of color-location binding in infants' visual short-term memory. *Visual Cognition*, *17*, 67-72.
49. Richard, A. M., Hollingworth, A., & Luck, S. J. (2008). Establishing object correspondence across eye movements: Flexible use of spatiotemporal and surface feature information. *Cognition*, *109*, 66-88.
50. Zhang, W., & Luck, S. J. (2008). Discrete fixed-resolution representations in visual working memory. *Nature*, *453*, 233-235.
51. Gold, J. M., Fuller, R. L., Robinson, B. M., Braun, E. L., & Luck, S. J. (2007). Impaired top-down control of visual search in schizophrenia. *Schizophrenia Research*, *94*, 148-155.
52. Hyun, J.-S., & Luck, S. J. (2007). Visual working memory as the substrate for mental rotation. *Psychonomic Bulletin & Review*, *13*, 154-158.
53. 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*, 834-839.
54. Matsukura, M., Luck, S. J., & Vecera, S. P. (2007). Attention effects during visual short-term memory maintenance: Protection or prioritization? *Perception & Psychophysics*, *69*, 1422-1434.
55. 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.
56. Woodman, G. F., Luck, S. J., & Schall, J. D. (2007). The role of working memory representations in the control of attention. *Cerebral Cortex*, *17*, i118-i124.
57. Fuller, R. L., Luck, S. J., Braun, E. L., Robinson, B., McMahan, R. P., & Gold, J. M. (2006). Impaired control of visual attention in schizophrenia. *Journal of Abnormal Psychology*, *115*, 266-275.
58. Gold, J. M., Fuller, R. L., Robinson, B., McMahan, R. P., Braun, E. L., & Luck, S. J. (2006). Intact attentional control of working memory encoding in schizophrenia. *Journal of Abnormal Psychology*, *115*, 658-673.
59. Hopf, J.-M., Luck, S. J., Boelmans, K., Schoenfeld, M. A., Boehler, N., Rieger, J., et al. (2006a). The neural site of attention matches the spatial scale of perception. *Journal of Neuroscience*, *26*, 3532-3540.

60. Hopf, J.-M., Boehler, C. N., Luck, S. J., Tsotsos, J. K., Heinze, H. J., & Schoenfeld, M. A. (2006b). Direct neurophysiological evidence for spatial suppression surrounding the focus of attention in vision. *Proceedings of the National Academy of Sciences*, *103*, 1053-1058.
61. Luck, S. J., Fuller, R. L., Braun, E. L., Robinson, B., Summerfelt, A., & Gold, J. M. (2006). The speed of visual attention in schizophrenia: Electrophysiological and behavioral evidence. *Schizophrenia Research*, *85*, 174-195.
62. Oakes, L. M., Ross-Sheehy, S., & Luck, S. J. (2006). Rapid development of feature binding in visual short-term memory. *Psychological Science*, *17*, 781-787.
63. 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.
64. Fuller, R. L., Luck, S. J., McMahon, R. P., & Gold, J. M. (2005). Working memory consolidation is abnormally slow in schizophrenia. *Journal of Abnormal Psychology*, *114*, 279-290.
65. Vogel, E. K., Woodman, G. F., & Luck, S. J. (2005). Pushing around the locus of selection: Evidence for the flexible-selection hypothesis. *Journal of Cognitive Neuroscience*, *17*, 1907-1922.
66. Hopf, J.-M., Boelmans, K., Schoenfeld, A. M., Luck, S. J., & Heinze, H.-J. (2004). Attention to features precedes attention to locations in visual search: Evidence from electromagnetic brain responses in humans. *Journal of Neuroscience*, *24*, 1822-1832.
67. Luck, S. J. (2004). Understanding awareness: One step closer. *Nature Neuroscience*, *7*, 208-209.
68. Woodman, G. F., & Luck, S. J. (2004). Visual search is slowed when visuospatial working memory is occupied. *Psychonomic Bulletin & Review*, *11*, 269-274.
69. Gold, J. M., Wilk, C., McMahon, R., & Luck, S. J. (2003). Working memory for visual features and conjunctions in schizophrenia. *Journal of Abnormal Psychology*, *112*, 61-71.
70. Ross-Sheehy, S., Oakes, L. M., & Luck, S. J. (2003). The development of visual short-term memory capacity in infants. *Child Development*, *74*, 1807-1822.
71. Woodman, G. F., Vecera, S. P., & Luck, S. J. (2003). Perceptual organization influences visual working memory. *Psychonomic Bulletin & Review*, *10*, 80-87.
72. Woodman, G. F., & Luck, S. J. (2003a). Serial deployment of attention during visual search. *Journal of Experimental Psychology: Human Perception and Performance*, *29*, 121-138.
73. Woodman, G. F., & Luck, S. J. (2003b). Dissociations among attention, perception, and awareness during object-substitution masking. *Psychological Science*, *14*, 605-111.
74. 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.
75. Hopf, J.-M., Boelmans, K., Schoenfeld, A. M., Heinze, H.-J., & Luck, S. J. (2002). How does attention attenuate target-distractor interference in vision? Evidence from magnetoencephalographic recordings. *Cognitive Brain Research*, *15*, 17-29.
76. Schmidt, B. K., Vogel, E. K., Woodman, G. F., & Luck, S. J. (2002). Voluntary and involuntary attentional control of visual working memory. *Perception & Psychophysics*, *64*, 754-763.
77. Vogel, E. K., & Luck, S. J. (2002). Delayed working memory consolidation during the attentional blink. *Psychonomic Bulletin & Review*, *9*, 739-743.

78. 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.
79. 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.
80. Hopf, J.-M., Luck, S. J., Girelli, M., Hagner, T., Mangun, G. R., Scheich, H., et al. (2000). Neural sources of focused attention in visual search. *Cerebral Cortex*, *10*, 1233-1241.
81. Luck, S. J., Woodman, G. F., & Vogel, E. K. (2000). Event-related potential studies of attention. *Trends in Cognitive Sciences*, *4*, 432-440.
82. Vogel, E. K., & Luck, S. J. (2000). The visual N1 component as an index of a discrimination process. *Psychophysiology*, *37*, 190-123.
83. Luck, S. J., & Thomas, S. J. (1999). What variety of attention is automatically captured by peripheral cues? *Perception & Psychophysics*, *61*(7), 1424-1435.
84. Luck, S. J. (1999). Direct and indirect integration of event-related potentials, functional magnetic resonance images, and single-unit recordings. *Human Brain Mapping*, *8*, 15-120.
85. Woodman, G. F., & Luck, S. J. (1999). Electrophysiological measurement of rapid shifts of attention during visual search. *Nature*, *400*, 867-869.
86. Anllo-Vento, L., Luck, S. J., & Hillyard, S. A. (1998). Spatio-temporal dynamics of attention to color: Evidence from human electrophysiology. *Human Brain Mapping*, *6*, 216-238.
87. Hillyard, S. A., Vogel, E. K., & Luck, S. J. (1998). Sensory gain control (amplification) as a mechanism of selective attention: Electrophysiological and neuroimaging evidence. *Philosophical Transactions of the Royal Society: Biological Sciences*, *353*, 1257-1270.
88. Luck, S. J., & Ford, M. A. (1998). On the role of selective attention in visual perception. *Proceedings of the National Academy of Sciences, U.S.A.*, *95*, 825-830.
89. Luck, S. J. (1998). Sources of dual-task interference: Evidence from human electrophysiology. *Psychological Science*, *9*, 223-227.
90. Luck, S. J., & Vogel, E. K. (1998). Response from Luck and Vogel (Response to Commentary by Nelson Cowan). *Trends in Cognitive Sciences*, *2*, 78-80.
91. Vogel, E. K., Luck, S. J., & Shapiro, K. L. (1998). Electrophysiological evidence for a postperceptual locus of suppression during the attentional blink. *Journal of Experimental Psychology: Human Perception and Performance*, *24*, 1656-1674.
92. Girelli, M., & Luck, S. J. (1997). Are the same attentional mechanisms used to detect visual search targets defined by color, orientation, and motion? *Journal of Cognitive Neuroscience*, *9*, 238-253.
93. Luck, S. J., Chelazzi, L., Hillyard, S. A., & Desimone, R. (1997). Neural mechanisms of spatial selective attention in areas V1, V2, and V4 of macaque visual cortex. *Journal of Neurophysiology*, *77*, 24-42.
94. Luck, S. J., Girelli, M., McDermott, M. T., & Ford, M. A. (1997). Bridging the gap between monkey neurophysiology and human perception: An ambiguity resolution theory of visual selective attention. *Cognitive Psychology*, *33*, 64-87.
95. Luck, S. J., & Vogel, E. K. (1997). The capacity of visual working memory for features and conjunctions. *Nature*, *390*, 279-281.

96. Luck, S. J., Hillyard, S. A., Mouloua, M., & Hawkins, H. L. (1996). Mechanisms of visual-spatial attention: Resource allocation or uncertainty reduction? *Journal of Experimental Psychology: Human Perception and Performance*, *22*, 725-737.
97. Luck, S. J., Vogel, E. K., & Shapiro, K. L. (1996). Word meanings can be accessed but not reported during the attentional blink. *Nature*, *382*, 616-618.
98. Moore, C. M., Egeth, H., Berglan, L. R., & Luck, S. J. (1996). Are attentional dwell times inconsistent with serial visual search? *Psychonomic Bulletin & Review*, *3*, 360-365.
99. Luck, S. J., & Hillyard, S. A. (1995). The role of attention in feature detection and conjunction discrimination: An electrophysiological analysis. *International Journal of Neuroscience*, *80*, 281-297.
100. Luck, S. J. (1995). Multiple mechanisms of visual-spatial attention: Recent evidence from human electrophysiology. *Behavioural Brain Research*, *71*, 113-123.
101. Gomez Gonzales, C. M., Clark, V. P., Fan, S., Luck, S. J., & Hillyard, S. A. (1994). Sources of attention-sensitive visual event-related potentials. *Brain Topography*, *7*, 41-51.
102. Heinze, H. J., Luck, S. J., Münte, T. F., Gös, A., Mangun, G. R., & Hillyard, S. A. (1994). Attention to adjacent and separate positions in space: An electrophysiological analysis. *Perception & Psychophysics*, *56*, 42-52.
103. Luck, S. J., & Hillyard, S. A. (1994a). Electrophysiological correlates of feature analysis during visual search. *Psychophysiology*, *31*, 291-308.
104. Luck, S. J. (1994). Cognitive and neural mechanisms of visual search. *Current Opinion in Neurobiology*, *4*, 183-188.
105. Luck, S. J., Hillyard, S. A., Mouloua, M., Woldorff, M. G., Clark, V. P., & Hawkins, H. L. (1994a). Effects of spatial cuing on luminance detectability: Psychophysical and electrophysiological evidence for early selection. *Journal of Experimental Psychology: Human Perception and Performance*, *20*, 887-904.
106. Luck, S. J., & Hillyard, S. A. (1994b). Spatial filtering during visual search: Evidence from human electrophysiology. *Journal of Experimental Psychology: Human Perception and Performance*, *20*, 1000-1014.
107. Luck, S. J., Hillyard, S. A., Mangun, G. R., & Gazzaniga, M. S. (1994b). Independent attentional scanning in the separated hemispheres of split-brain patients. *Journal of Cognitive Neuroscience*, *6*, 84-91.
108. Mangun, G. R., Luck, S. J., Plager, R., Loftus, W., Hillyard, S. A., Handy, T., et al. (1994). Monitoring the visual world: Hemispheric asymmetries and subcortical processes in attention. *Journal of Cognitive Neuroscience*, *6*, 267-275.
109. Pashler, H., Luck, S. J., Hillyard, S. A., Mangun, G. R., O'Brien, S., & Gazzaniga, M. S. (1994). Sequential operation of disconnected cerebral hemispheres in split-brain patients. *NeuroReport*, *5*, 2381-2384.
110. Luck, S. J., Fan, S., & Hillyard, S. A. (1993). Attention-related modulation of sensory-evoked brain activity in a visual search task. *Journal of Cognitive Neuroscience*, *5*, 188-195.
111. Hawkins, H. L., Hillyard, S. A., Luck, S. J., Mouloua, M., Downing, C. J., & Woodward, D. P. (1990). Visual attention modulates signal detectability. *Journal of Experimental Psychology: Human Perception and Performance*, *16*, 802-811.
112. Heinze, H. J., Luck, S. J., Mangun, G. R., & Hillyard, S. A. (1990). Visual event-related potentials index focused attention within bilateral stimulus arrays. I. Evidence for early selection. *Electroencephalography and Clinical Neurophysiology*, *75*, 511-527.

113. Luck, S. J., Heinze, H. J., Mangun, G. R., & Hillyard, S. A. (1990). Visual event-related potentials index focused attention within bilateral stimulus arrays. II. Functional dissociation of P1 and N1 components. *Electroencephalography and Clinical Neurophysiology*, *75*, 528-542.
114. Luck, S. J., & Hillyard, S. A. (1990). Electrophysiological evidence for parallel and serial processing during visual search. *Perception & Psychophysics*, *48*, 603-617.
115. Luck, S. J., Hillyard, S. A., Mangun, G. R., & Gazzaniga, M. S. (1989). Independent hemispheric attentional systems mediate visual search in split-brain patients. *Nature*, *342*, 543-545.
116. Luck, S. J., Colgrove, M., & Neuringer, A. (1988). Response sequence learning as a function of primary versus conditioned reinforcement. *Animal Learning and Behavior*, *16*, 8-14.
117. Neuringer, M., Connor, W. E., Lin, D. S., Barstad, L., & Luck, S. J. (1986). Biochemical and functional effects of prenatal and postnatal omega-3 fatty acid deficiency on retina and brain in rhesus monkeys. *Proceedings of the National Academy of Sciences, USA*, *83*, 4021-4025.

Book Chapters, Conference Proceedings, Commentaries, Etc.

1. Sawaki, R., & Luck, S. J. (in press). How the brain prevents and terminates shifts of attention. In G. R. Mangun (Ed.), *Cognitive Electrophysiology of Attention*: Elsevier.
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12. Luck, S. J. (2008). Visual short-term memory. In S. J. Luck & A. Hollingworth (Eds.), *Visual Memory* (pp. 43-85). New York: Oxford University Press.
13. Luck, S. J. (2007). Visual Short Term Memory [Electronic Version]. Scholarpedia, 14709 from http://www.scholarpedia.org/article/Visual_Short_Term_Memory.
14. Oakes, L. M., Ross-Sheehy, S., & Luck, S. J. (2007). The development of visual short-term memory in infancy. In L. M. Oakes & P. J. Bauer (Eds.), *Short- and Long-Term Memory in Infancy and Early Childhood: Taking the First Steps Toward Remembering* (pp. 75-102). New York: Oxford University Press.
15. Luck, S. J. (2005a). Ten simple rules for designing ERP experiments. In T. C. Handy (Ed.), *Event-Related Potentials: A Methods Handbook* (pp. 17-32). Cambridge, MA: MIT Press.
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2. Published Reviews of Scholarship

1. Cowan, N. (1998). Visual and auditory working memory capacity: Commentary. *Trends in Cognitive Science*, 2, 77-78. (Commentary on Luck, & Vogel, 1997, *Nature*, 390, 279-281).
2. Wolfe, J. M. (1999). How do you pay attention? *Nature*, 400, 813. (Commentary on Woodman & Luck, 1999, *Nature*, 400, 867-869).
3. Hagoort, P. (2006). Event-related potentials from the user's perspective. *Nature Neuroscience*, 9, 463. (Review of Luck, 2005, *An Introduction the Event-Related Potential Technique*).
4. Slobounov, S. (2006). *The Quarterly Review of Biology*, 81, 201-202. (Review of Luck, 2005, *An Introduction the Event-Related Potential Technique*).

3. Software and Electronic Resources

ERPLAB Toolbox (<http://erpinfo.org/erplab>).

This is a freely available, NIH-funded, open-source Matlab toolbox for processing and analyzing event-related potential data. As of 10/2/2012, it has been downloaded 4106 times. Major releases:

ERPLAB Toolbox 1.0 (October 18, 2010)

ERPLAB Toolbox 2.0 (November 16, 2011)

ERPLAB Toolbox 3.0 (October 16, 2012)

4. Grants and Contracts

Current Grants and Contracts

Provost Hybrid Course Award

Internal UC-Davis grant for developing a hybrid undergraduate course

Principal Investigator, Steven J. Luck

Grant period: April 1, 2013 through March 31, 2014

Direct costs: \$12,500 plus \$12,500 matching funds from the Dean of Social Sciences

R01MH076226 Control of Attention by Working Memory (years 6-10)

R01 Award, NIMH

Principal Investigator, Steven J. Luck

Grant period: January 1, 2011 through December 31, 2015

Direct costs: \$1,000,000 over a 5-year period

Indirect costs: \$506,682 over a 5-year period

R25MH080794 Yearly Workshop in the Event-Related Potential Technique (years 6-10)

R25 Award, NIMH

Principal Investigator, Steven J. Luck

Grant period: July 1, 2007 through June 30, 2017

Direct costs: \$ 682,922 over a 5-year period

Indirect costs: \$ 54634 over a 5-year period

R01MH087450 ERPLAB: Extensible, open source software for analysis of event-related potentials

R01 Award, NIMH

Principal Investigator, Steven J. Luck

Grant period: December 1, 2009 through November 31, 2014

Direct costs: \$500,000 over a 5-year period

Indirect costs: \$267,916 over a 5-year period

R01MH065034 Cognitive Neuroscience of Attention and Working Memory in Schizophrenia (years 11-15)

R01 Award, NIMH

Principal Investigators, James M. Gold and Steven J. Luck (joint PIs)

Grant period: April 1, 2013 through November 30, 2017

Total costs (entire project): \$3,491,491,403 over a 5-year period

Direct costs (UCD portion): \$505,009 over a 5-year period

Indirect costs (UCD portion): \$243,804 over a 5-year period

R01EY022525 Understanding cognitive development in infancy: Attention and visual short-term memory

R01 Award, NEI

Principal Investigator, Lisa M. Oakes (Steven J. Luck, Co-PI)

Grant period: December 1, 2011 through November 30, 2016

Direct costs: \$1,000,000 over a 5-year period

Indirect costs: \$507,715 over a 5-year period

R01EY017356 Eye Movements and Visual Working Memory (Years 6-10)

R01 Award, NEI

Principal Investigator, Andrew Hollingworth, Univ of Iowa (Steven J. Luck, consultant)

Grant period: October 1, 2011 through September 30, 2016

Direct costs: \$1,000,000 over a 5-year period

Indirect costs: \$470,879 over a 5-year period

BCS-1230377 Mechanisms of Attentional Rejection

Research Grant, NSF

Principal Investigator, Joy J. Geng (Steven J. Luck, co-investigator)

Grant period: 9/1/2012 through 8/31/2015

Direct costs: \$317,421 over a 3-year period

Indirect costs: \$141,380 over a 5-year period

Previous Grants and Contracts

- R01MH076226 Visual Working Memory: Representation and Process (years 1-5)
 R01 Award, NIMH
 Principal Investigator, Steven J. Luck
 Grant period: January 1, 2006 through December 31, 2010
 Direct costs: \$787,500 over a 5-year period
 Indirect costs: \$374,062 over a 5-year period
- R01MH065034 Cognitive Neuroscience of Attention and Working Memory in Schizophrenia (years 6-10)
 R01 Award, NIMH
 Principal Investigators, James M. Gold and Steven J. Luck (joint PIs)
 Grant period: July 3, 2008 through March 31, 2013
 Total costs (entire project): \$3,491,491,403 over a 5-year period
 Direct costs (UCD portion): \$505,009 over a 5-year period
 Indirect costs (UCD portion): \$243,804 over a 5-year period
- R01MH065034 Cognitive Neuroscience of Attention in Schizophrenia (years 1-5)
 R01 Award, NIMH
 Principal Investigator, James M. Gold, Maryland Psychiatric Research Center
 Subcontract to Steven J. Luck, University of Iowa
 Grant period: September 27, 2001 through August 31, 2006
 Total costs (entire project): \$1,793,155 over a 5-year period
 Direct costs (UI subcontract): \$367,160 over a 5-year period
 Indirect costs (UI subcontract): \$172,565 over a 5-year period
- R25MH080794 Yearly Workshop in the Event-Related Potential Technique (years 1-5)
 R25 Award, NIMH
 Principal Investigator, Steven J. Luck
 Grant period: July 1, 2007 through March 31, 2012
 Direct costs: \$533,184 over a 5-year period
 Indirect costs: \$42,655 over a 5-year period
- R01MH055714 ERP and fMRI Studies of Visual Attention
 R01 Award, NIMH
 Principal Investigator, G. R. Mangun (Steven J. Luck, co-investigator)
 Grant period: June 1, 2008 through May 31, 2012
 Direct costs: \$855,000 over a 4-year period
 Indirect costs: \$423,838 over a 4-year period
- R24MH081807 Cognitive Control in Schizophrenia
 R24 Translational Research Center in Behavioral Sciences, NIMH
 Principal Investigator, Cameron Carter (Steven J. Luck, investigator)
 Grant period: 8/25/08–4/30/11
 Direct costs: \$ 901,432 over a 3-year period
 Indirect costs: \$468,744 over a 3-year period
- R01MH084826 Cognitive Neuroscience Task Reliability & Clinical Applications Consortium
 R01 Award, NIMH
 Principal Investigator, Cameron Carter (Steven J. Luck, investigator)

Grant period: 9/30/08–5/31/11
 Direct costs: \$382,131 over a 3-year period
 Indirect costs: \$198,709 over a 3-year period

R01HD49840 The Development of Visual Short-Term Memory in Infancy

R01 Award, NICHD
 Principal Investigator, Lisa M. Oakes (Co-PI, Steven J. Luck)
 Grant period: April 1, 2005 through January 31, 2010
 Direct costs: \$560,000 over a 5-year period
 Indirect costs: \$266,000 over a 5-year period

R01EY017356 Eye Movements, Gaze Correction, and Visual Short-Term Memory (Years 1-5)

R01 Award, NEI
 Principal Investigator, Andrew Hollingworth, Univ of Iowa (Co-PI, Steven J. Luck)
 Grant period: October 1, 2006 through September 30, 2011
 Direct costs: \$847,500 over a 5-year period
 Indirect costs: \$402,562 over a 5-year period

From Where to What: The Dynamics of Spatial Cognition

Research Grant, NSF
 Principal Investigator, John P. Spencer, Univ of Iowa (Co-PI, Steven J. Luck)
 Grant period: January 1, 2006 through November 30, 2008
 Direct costs: \$421,279 over a 3-year period
 Indirect costs: \$194,227 over a 3-year period

R01MH63001 Attentional Mechanisms in Perception and Working Memory

R01 Award, NIMH
 Principal Investigator, Steven J. Luck
 Grant period: April 1, 2001 through April 30, 2007
 Direct costs: \$800,000 over a 5-year period
 Indirect costs: \$376,000 over a 5-year period

Cognitive and Neural Mechanisms of Figure-Ground Segregation

Research grant from National Science Foundation
 Principal Investigator, Shaun P. Vecera (Co-PI, Steven J. Luck)
 Grant period: July 15, 2000 through June 30, 2003
 Direct costs: \$123,807 over a 3-year period
 Indirect costs: \$58,189 over a 3-year period

Stages and Mechanisms of Selective Attention

Research grant from National Science Foundation
 Principal Investigator, Steven J. Luck
 Grant period: August 15, 1998 through August 14, 2001
 Direct costs: \$94,048 over a 3-year period
 Indirect costs: \$42,322 over a 3-year period

R29MH56877 Cognitive and Neural Mechanisms of Attention

R29 FIRST Award, NIMH
 Principal Investigator, Steven J. Luck
 Grant period: April 1, 1997 through March 31, 2001
 Direct costs: \$345,470 over a 5-year period
 Indirect costs: \$152,941 over a 5-year period

Converging Approaches to the Study of Selective Attention

Multiple-investigator research grant from the Human Frontier Science Program

Principal applicant: G.R. Mangun, UC-Davis

Grant period: July 1st, 1997 through June 31, 2000

Direct costs: \$110,185 over a 3-year period

Neural Systems Mediating Attentional Selection in Time

Research grant funded by the McDonnell-Pew Program in Cognitive Neuroscience

Co-investigator: Dr. Kimron L. Shapiro, University of Wales

Grant period: July 1, 1995 through June 30, 1997

Direct costs: \$63,900 over a 2-year period

5. Professional Presentations

Workshops

Mini ERP Boot Camp. Three-day workshop on ERP methods at University of Minnesota (January, 2013).

ERPLAB Toolbox Workshop. Two-day workshop on the ERPLAB Toolbox software package, given as a preconference symposium at the Annual Meeting of the Society for Psychophysiological Research (September, 2012).

Mini ERP Boot Camp. Two-day workshop on ERP methods at the Kennedy-Krieger Institute, Johns Hopkins University (September, 2012).

Mini ERP Boot Camp. Three-day workshop on ERP methods at University of Birmingham, UK (June, 2012).

Mini ERP Boot Camp. Three-day workshop on ERP methods at University of Copenhagen, Denmark (June, 2012).

Mini ERP Boot Camp. Three-day workshop on ERP methods at University of Toronto (February, 2012).

Mini ERP Boot Camp. Two-day workshop on ERP methods given as a preconference symposium at the Annual Meeting of the Society for Psychophysiological Research (September, 2011).

The UC-Davis ERP Boot Camp. Ten-day workshop on ERP methods at UC-Davis (July, 2011).

Mini ERP Boot Camp. Two-day workshop on ERP methods at Northwestern University School of Medicine (December, 2010).

Mini ERP Boot Camp. Three-day workshop on ERP methods at UCLA (September, 2010).

The UC-Davis ERP Boot Camp. Ten-day workshop on ERP methods at UC-Davis (July, 2010).

Mini ERP Boot Camp. Three-day workshop on ERP methods at University of Maryland Center for Advanced Study of Language (October, 2009).

Mini ERP Boot Camp. Two-day workshop on ERP methods given at the University of Wisconsin, Madison (August, 2009).

The UC-Davis ERP Boot Camp. Ten-day workshop on ERP methods at UC-Davis (July, 2009).

Mini ERP Boot Camp. Two-day workshop on ERP methods given as a preconference symposium at the Annual Meeting of the Society for Psychophysiological Research (September, 2008).

Mini ERP Boot Camp. Two-day workshop on ERP methods at University of Maryland Center for Advanced Study of Language (September, 2008).

The UC-Davis ERP Boot Camp. Ten-day workshop on ERP methods at UC-Davis (July, 2008).

The Use of Event-Related Potentials to Study the Development and Decline of Cognitive Function. One-day workshop (with D. Mills) given as a preconference tutorial at the Annual Meeting of the Cognitive Science Society (July, 2008).

Mini ERP Boot Camp. Two-day workshop on ERP methods at Merck & Co. (February, 2008).

Mini ERP Boot Camp. Two-day workshop on ERP methods given as a preconference symposium at the Annual Meeting of the Society for Psychophysiological Research (October, 2007).

Mini ERP Boot Camp. Two-day workshop on ERP methods at SUNY Buffalo (September, 2007).

The UC-Davis ERP Boot Camp. Ten-day workshop on ERP methods at UC-Davis (August, 2007).

Mini ERP Boot Camp. Two-day workshop on ERP methods given as a preconference symposium at the Annual Meeting of the Society for Psychophysiological Research (October, 2006).

The University of Iowa ERP Boot Camp. Five-day workshop on ERP methods at the University of Iowa (July, 2003; July 2005).

Colloquia, Invited Addresses, and Symposia

The Control of Visual Attention. Colloquium presentation at the University of Minnesota (January, 2013).

Visual Working Memory: Representation, Process, Function, and Dysfunction. Robert G. Crowder Memorial Lecture at Yale University (November, 2012).

The Control of Visual Attention. Helmholtz Lecture given at the Helmholtz Research Institute, Universities of Utrecht, Amsterdam and Rotterdam, The Netherlands (June, 2012).

Visual Working Memory: Representation, Process, Function, and Dysfunction. Colloquium presentation at Stanford University (November, 2010).

Neural Systems for the Control of Attention. Invited address at the sixth CNTRICS meeting (Cognitive Neuroscience Treatment Research to Improve Cognition in Schizophrenia) (October, 2010).

ERP Biomarkers in Schizophrenia Research. Invited address at the sixth CNTRICS meeting (Cognitive Neuroscience Treatment Research to Improve Cognition in Schizophrenia) (October, 2010).

Attentional Control and Interactions Between Attention and Working Memory. Colloquium presentation at UC Berkeley (October, 2010).

Visual Working Memory: Representation, Process, Function, and Dysfunction. Colloquium presentation at UC San Diego (October, 2010).

Visual Working Memory: Representation, Process, Function, and Dysfunction. Colloquium presentation at Duke University (March, 2010).

ERPs in Translational Research: Opportunities & Challenges. Invited address at the fourth CNTRICS meeting (Cognitive Neuroscience Treatment Research to Improve Cognition in Schizophrenia) (October, 2009).

Visual Working Memory in Basic and Translational Science. M.I.N.D. Institute Research Seminar Series (June, 2009).

The Capacity and Resolution of Visual Working Memory. Invited presentation at VA Hospital in Martinez, CA (May, 2009).

The Lateralized Readiness Potential: A Powerful Tool for Studying Action. Symposium organized at the 15th International Congress on Event-Related Potentials of the Brain (April 2009). (Co-organizer along with Emily S. Kappenman)

A Vision-Memory-Vision Loop. Invited presentation at the annual meeting of the Cajal Club (September, 2008).

A Memory System You Use 172,800 Times Per Day Without Knowing You Have It. Invited presentation at Reed College Psychology Reunion (June, 2008).

Top-Down Control of Shifts of Attention. Invited address at the third CNTRICS meeting (Cognitive Neuroscience Treatment Research to Improve Cognition in Schizophrenia) (March, 2008).

The Representational Format of Visual Working Memory. Colloquium presentation at UC Santa Cruz (October, 2007).

The Challenges of Translating Cognitive Paradigms for use in Clinical Research. Invited address at the second CNTRICS meeting (Cognitive Neuroscience Treatment Research to Improve Cognition in Schizophrenia) (September, 2007).

Visual Working Memory: Representation, Process, and Function. Invited address at the 2007 APA Meeting (August, 2007).

Visual Working Memory: Representation, Process, and Function. Colloquium presentation at UC-Berkeley Vision Sciences Group (May, 2007).

Features and Objects in Visual Working Memory. Colloquium presentation at UC-Berkeley Psychology Department (April, 2007).

Attention. Invited address at the first CNTRICS meeting (Cognitive Neuroscience Treatment Research to Improve Cognition in Schizophrenia) (February, 2007).

Visual Working Memory: Representation, Process, and Function. Colloquium presentation at McMaster University (November, 2006).

Visual Working Memory: Representation, Process, and Function. Colloquium presentation at University of Wales (December, 2005).

Visual Short-Term Memory for Features and Objects. Invited symposium organized by S.J. Luck and A. Hollingworth for the Annual Meeting of the Psychonomic Society, Minneapolis, MN (November, 2004).

Visual Short-Term Memory for Features and Objects: A Synthesis of Recent Research. Paper presented in a symposium entitled Visual Short-Term Memory for Features and Objects at the Annual Meeting of the Psychonomic Society, Kansas City, MO (November, 2002).

Features and Objects in Visual Working Memory. Keynote address at the annual Object Perception, Attention, & Memory conference, Minneapolis, MN (November, 2004).

Features and Objects in Visual Working Memory. Colloquium presentation at Harvard University, Cambridge, MA (October, 2004).

Visual Attention and the Binding Problem. Colloquium presentation at Grinnell College, Grinnell, IA (October, 2004).

Toward an Embedded-Process Theory of Attention. Colloquium presentation at Johns Hopkins University, Baltimore, MD (February, 2004).

The Operation of Attention—Millisecond by Millisecond—Over the First Half Second. Invited presentation at NSF-funded symposium entitled The First Half Second, Houston, TX (November, 2003).

Mechanisms of Attention in Visual Search. Invited presentation at the McDonnell Summer Institute in Cognitive Neuroscience, Lake Tahoe, CA (July, 2003).

Serial and Parallel Processing in Visual Search. Colloquium presentation at the University of California, Davis, CA (June, 2003).

Toward an Embedded-Process Metatheory of Attention. Colloquium presentation at Vanderbilt University, Nashville, TN (May, 2003).

Electrophysiological evidence for serial shifts of attention in demanding visual search tasks. Paper presented in a symposium entitled New Perspectives on Visual Search at the Annual Meeting of the Psychonomic Society, Kansas City, MO (November, 2002).

New Perspectives on Visual Search. Invited symposium organized by S.J. Luck for the Annual Meeting of the Psychonomic Society, Kansas City, MO (November, 2002).

Attention as an Embedded Process. Colloquium presentation at the University of Pennsylvania, Philadelphia, PA (March, 2002).

The Role of Attention in Multiple Cognitive Subsystems: Behavioral and Electrophysiological Evidence. Colloquium presentation at the University of Delaware, Newark, DE (February, 2001).

The Role of Attention in Multiple Cognitive Subsystems: Behavioral and Electrophysiological Evidence. Colloquium presentation at the Maryland Psychiatric Research Center (August, 2000).

Attention and Information Overload. Invited address at the annual meeting of the American Psychological Society (June, 2000).

Attention and Cognitive Neuroscience. Invited address at the annual meeting of the American Psychological Association (August, 1999).

The Role of Attention in Multiple Cognitive Subsystems: Behavioral and Electrophysiological Evidence. Colloquium presentation at Indiana University, Bloomington, IN (June, 1999).

The Role of Attention in Multiple Cognitive Subsystems: Behavioral and Electrophysiological Evidence. Colloquium presentation at Yale University, New Haven, CT (March, 1999).

The Role of Attention in Multiple Cognitive Subsystems: Behavioral and Electrophysiological Evidence. Colloquium presentation at Washington University, St. Louis, MO (February, 1999).

The Role of Attention in Multiple Cognitive Subsystems: Behavioral and Electrophysiological Evidence. Colloquium presentation at the University of Missouri, Columbia, MO (February, 1999).

The Operation of Selective Attention at Multiple Stages of Processing: Evidence from Human and Monkey Electrophysiology. Invited presentation at the McDonnell Summer Institute in Cognitive Neuroscience, Lake Tahoe, CA (July, 1998).

Visual-Spatial Attention and the Binding Problem: Evidence from Human and Monkey Electrophysiology. Colloquium presentation, Department of Clinical Neurophysiology, Otto von Guericke University, Magdeburg, Germany (November, 1998).

ERPs, Functional Neuroimaging, and Single-Unit Recordings: Bridging the Gap Between Humans and monkeys. Symposium presentation at BrainMap 98, San Antonio, TX (December, 1998).

Visual Attention and the Resolution of Ambiguous Neural Coding. Colloquium presentation, Department of Psychology, University of Wales, Bangor, Wales (March, 1997).

Electrophysiological Studies of Visual Attention. Invited presentation, MRC Applied Psychology Unit, Cambridge, England (April, 1997).

On the Role of Selective Attention in Visual Perception. Symposium presentation at a National Academy of Sciences colloquium, "Neuroimaging of Human Brain Function," Irvine, CA (May, 1997).

Selective Attention from the Perspective of Cognitive Neuroscience. Invited presentation at the Annual Meeting of the Society for Philosophy and Psychology, San Francisco, CA (May, 1996).

Attention, Coarse Coding, and the Binding Problem: Evidence from Human and Monkey Electrophysiology. Invited presentation, Department of Psychology, University of California, Berkeley, CA (June, 1996).

Attention, Coarse Coding, and the Binding Problem: Evidence from ERPs and Single-Unit Recordings. Invited presentation, Center for Neuroscience, University of California, Davis, CA (June, 1996).

Electrophysiological Studies of Visual Attention in Humans and Monkeys. Symposium presentation at the Annual Meeting of the European Neurosciences Association, Strasbourg, France (September, 1996).

Neural Mechanisms of Visual-Spatial Attention: Bridging the Gap Between Monkeys and Humans. Colloquium presentation, Institute for Human Physiology, University of Verona, Italy (September, 1996).

Visual Attention and ERPs: Bridging the Gap Between Monkeys and Humans. Symposium presentation at the Annual Meeting of the Society for Psychophysiological Research, Vancouver, British Columbia (October, 1996).

The Role of Selective Attention in the Perception of Multiple-Element Stimulus Arrays. Invited presentation at the Banff Annual Seminar in Cognitive Science, Banff, Alberta, Canada (May, 1995).

Cognitive and Neural Functions of Visual Selective Attention. Colloquium presentation, Department of Psychology, Johns Hopkins University, Baltimore, MD (October, 1995).

Electrophysiological Evidence for Multiple Attentional Mechanisms in Spatial Cuing and Visual Search Tasks. Invited presentation at the Third West Coast Attention Meeting, Eugene, OR (May, 1993).

Mechanisms of Spatial Attention: Evidence from Human Electrophysiology. Invited presentation at the 25th Meeting of the European Brain and Behavior Society, Madrid, Spain (September, 1993).

Attentional Filtering and the N2pc Component. Symposium presentation at conference on New Developments in Event-Related Potentials, sponsored by the German EEG Society and Deutsche Forschungsgemeinschaft, Hannover, Germany (May, 1991).

PROFESSIONAL SERVICE

Current Committees and Positions

Advisory Council, International Association for the Study of Attention & Performance (1998-present)
Research Advisory Panel, UCLA Center for Neurocognition and Emotion in Schizophrenia (2013-present)

Previous Committees and Positions

Member, APA F. J. McGuigan Dissertation Award Review Committee (2012, 2013)
Member, APA committee to select winner of F. J. McGuigan Award (2009)
Chair, APA committee to select winner of APA Early Career Contribution Award (2009)
Organizing Committee, EPIC XV (Fifteenth International Congress on Event-Related Potentials, 2008-2009)
Member, Search Committee for New Editor of *Cognitive, Affective, & Behavioral Neuroscience* (2006)
Member, APA committee to select winner of Early Career Contribution Award (2000)

Member, Search Committee for New Editor of *Psychobiology* (1999-2000)

Current Editorial Positions

Editorial Board of *Psychological Science* (2009-present)
 Editorial Board of *Attention, Perception & Psychophysics* (1998-present)

Previous Editorial Positions

Associate Editor of *Cognitive, Affective, & Behavioral Neuroscience* (2007-2012)
 Associate Editor of *Psychonomic Bulletin & Review* (2006-2009)
 Editorial Board of *Visual Cognition* (2005-2008)
 Editorial Board of *Journal of Experimental Psychology: General* (2005-2006)
 Editorial Board of *Journal of Experimental Psychology: Human Perception and Performance* (1999-2005)
 Editorial Board of *Psychological Science* (1999-2003)
 Editorial Board of *Psychological Bulletin* (1997-2002)
 Editorial Board of *Psychonomic Bulletin and Review* (1998-1999)

Journal Reviewing

Frequent ad hoc reviewer for many journals, including *Biological Psychiatry, Brain Research, Cognitive Psychology, Cortex, Human Brain Mapping, Journal of Cognitive Neuroscience, Journal of Neuroscience, Journal of Experimental Psychology, Nature, Nature Neuroscience, Neuron, Proceedings of the National Academy of Sciences, Psychophysiology, Science, Vision Research*

Grant Reviewing

NIH BBBP-E Member Conflict Special Emphasis Panel (2012)
 NIH Biological Basis of Mental Disorders Panel (2011)
 Chair, NIH BBBP-D Member Conflict Special Emphasis Panel (2010)
 NIH BBBP-D Member Conflict Special Emphasis Panel (2009)
 NIH IFCN-A Special Emphasis Review Panel for ARRA Proposals (2009)
 NIH Special Emphasis Review Panel for Building Translational Research in Integrative Behavioral Science (October, 2007)
 Ad Hoc Member of NIH Cognition & Perception Study Section (2005)
 Ad Hoc Member of NIH Integrative, Functional, & Cognitive Neuroscience (COG) Panel, Feb 2004
 Ad Hoc Member of NIH Social Psychology, Personality and Interpersonal Processes Panel, March 2004, October 2004
 NIH BBBP-D Special Emphasis Panel - Cognitive Development and Disorders, March 2004
 NIMH Training Grant II (ZMH1-ERB-X 01) Panel, November 2004
 Ad Hoc Member of NIH BBBP-4 (Cognition & Perception) Panel, March 2003
 Ad Hoc Member of NIH ZRG1 SSS-V Panel, March 2003
 NIH Special Emphasis Review Panel for Translational Research Centers in Behavioral Science (2002)
 Ad Hoc Member of NIH Special Emphasis Review Panel for Interdisciplinary Behavioral Science Centers (2001)
 Ad Hoc Member of NIH IFCN-8 Study Section (2000)

Ad Hoc Grant Reviewer for:
Human Frontier Science Program (2007)
Vanderbilt University (2001, 2004)
The March of Dimes (2001)
National Institutes of Health (2001)

The Israel Science Foundation (1997)
National Science Foundation (1995, 1996, 1997, 2001)
National Science and Engineering Research Council (Canada, 1996)
The Wellcome Trust (U.K., 1994)

Conference Reviewing

Conference submission reviewer, Vision Sciences Society (2006, 2007, 2008)

Other Reviewing

Reviewer for 3 chapters of a cognitive psychology textbook (*Cognition* by D. Reisberg) (2004)

Promotion and/or Tenure Review Letters

Boston University
 Duke University
 George Mason University
 Harvard University
 Oregon State University
 Northwestern University
 Princeton University
 Rice University
 Simon Fraser University
 SUNY Stony Brook
 SUNY Geneseo
 Tufts University
 University of British Columbia
 University of California, Berkeley
 University of California, Los Angeles
 University of California, San Diego
 University of Delaware
 University of Illinois
 University of Kansas
 University of Toronto
 University of Nebraska
 University of New Mexico
 University of Oregon
 University of Rochester
 Washington University

Program, Center, and Department Reviews

Center for Mind, Brain, and Culture, Emory University (2011)

Other Professional Service

External reviewer for Ph.D. thesis of Margaret C. Jackson at the University of Wales, Bangor, December 2005
 Telephone interviewee for an NIMH contract project, "Measurement and Treatment Research to Improve Cognition in Schizophrenia" (2003)
 Consultant for Advertising Research Foundation NeuroStandards Project (2010-2011)
 Participant in NIMH Research Domain Criteria Project, Cognitive Systems Workshop (2011)