

BRADLEY ROBINSON POSTLE

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EDUCATION

Institution <i>Department, Mentor</i>	Degree/Position <i>Specialization</i>	Date
University of Pennsylvania School of Medicine <i>Neurology, Mark D'Esposito</i>	Postdoctoral Fellow	July 1997 to August 2000
Massachusetts Institute of Technology <i>Brain and Cognitive Sciences, Suzanne Corkin</i>	Ph.D. <i>Systems Neuroscience</i>	June 1997
Cornell University <i>Government</i>	B.A. <i>Concentration in International Relations</i>	1987

FACULTY APPOINTMENT

University of Wisconsin–Madison <i>Department of Psychology</i>	Professor	2011 - present
	Associate Professor	2007 - 2011
	Assistant Professor	2000 -2007
<i>Department of Psychiatry</i> ("\$0 appt.", full Exec. Comm. privileges)	Professor	2011 - present
	Associate Professor	2009 – 2011
<i>Neuroscience Training Program</i>	Affiliate	2007 - 2009
	Member	2000 - present

AWARDS & FELLOWSHIPS

Vilas Associate Award; University of Wisconsin–Madison – *“recognizes new and ongoing research of the highest quality and significance.”* Jan. 2016

Romnes Award; University of Wisconsin–Madison – *“recognizes exceptional research accomplishments and outstanding potential of faculty who received tenure within the past four years.”* Dec. 2009

Engage Impact Award; University of Wisconsin–Madison Division of Information Technology – *a competitive award supporting “the mission of transforming teaching and learning, for projects that ... have the potential to have a high impact on teaching and/or learning.”* Awarded resources to implement Test-Enhanced Learning-based system of Web-administered quizzing in large undergraduate lecture course in Cognitive Psychology. June 2009

James S. McDonnell Foundation Summer Institute in Cognitive Neuroscience Fellowship; University of California, Davis July 1995

National Science Foundation Graduate Fellowship April 1993 - June 1996

RESEARCH SUPPORT

External -- ongoing

National Institute of Mental Health; NIH R01 MH064498(10-14); 2016-2021.

"Investigating Cognitive & Neural Bases of Working Memory" (\$1,914,193 direct costs)

role: PI

National Institute of Mental Health; NIH R01 MH095984(01-05); 2012-2017.

"Oscillatory Contributions to Working Memory and Attention" (\$1,681,381 direct costs)

role: PI

National Institute of Mental Health; NIH R01 MH095984-03S1, 2015-2017. Revision Application (formerly "Supplement") to parent R01 *"Oscillatory Contributions to Working Memory and Attention"*; supports supplemental Aim to carry out electrocorticography (ECoG) research during sabbatical leave (\$133,581 direct costs)

External -- completed

Dana Foundation; 2005-2007.

"Anatomical and Functional Connectivity in Schizophrenia" (\$100,000 direct costs)

role: Consultant (A. Alexander, PI)

Internal -- ongoing

Vilas Associate Award; University of Wisconsin–Madison, 2016-2018. (Two years of summer salary + \$25,000 unrestricted funds)

role: PI

Internal – completed

Graduate School Research Committee award; University of Wisconsin–Madison, 2016-2017. *"Attentional Selection in Working Memory."* (\$40,000). *Declined*

role: PI

Romnes Award, University of Wisconsin–Madison; 2010-2015 (\$50,000 unrestricted funds)

role: award recipient

Graduate School Research Committee award; University of Wisconsin–Madison, 2012-2013. *"Disentangling functions of low-frequency cortical oscillations."* (\$43,476)

role: PI

Graduate School Research Committee award; University of Wisconsin-Madison, 2008-2009.

"The role of cortical oscillations in the short-term retention of information."

role: PI

Graduate School Research Committee award; University of Wisconsin–Madison, 2006-2007. *"Evaluating methods of group analysis of fMRI data."* (\$17,133)

role: PI

Graduate School Research Committee award; University of Wisconsin–Madison, 2005-2006. *"Using Simultaneous TMS and fMRI to Characterize the BOLD Hemodynamic Response."* (\$15,098)

role: PI

Graduate School Research Committee award; University of Wisconsin–Madison, 2002-2003. *"Neurophysiological Bases of Human Working Memory Function"* (\$26,157)

role: PI

Graduate School Research Committee award; University of Wisconsin–Madison, 2001-2002. "*Cognitive Neuroscience Investigations of Human Working Memory Function.*" (\$15,379)
role: PI

Vilas Young Investigator Award; University of Wisconsin–Madison; 2000-2005. (\$375,000)

Trainee support

National Institute of Mental Health; F30 MH0795428; 2012-2015
Predocctoral NRSA to Bornali Kundu: "Individual differences and training effects in working memory"

National Institute of Mental Health; F31 MH085444; 2009-2012

Predocctoral NRSA to Jarrod Lewis-Peacock: "The role of activated long-term memory representations in working memory storage"

National Institute of Mental Health; F32 MH088115; 2009-2012
Postdoctoral NRSA to Jeffrey Johnson: "Exploring the effects of TMS on cortical oscillations"

National Institute of Mental Health; F30 MH078705; 2007-2009
Predocctoral NRSA to Massihullah Hamidi: "The Role of Frontal and Posterior Cortices in Working Memory"

Consultancy

NSF Major Research Instrumentation grant to Michigan State University to acquire infrared-guided TMS system;
Devin McAuley, PI
role: Advisory Board

AFFILIATIONS

Cognitive Neuroscience Society
Member

Memory Disorders Research Society
Member

Society for Neuroscience
Member

PROFESSIONAL SERVICE

Editorial Responsibilities

Reviewing Editor, *eNeuro* – 2016-present

Associate Editor, *Journal of Cognitive Neuroscience* –2009-present

Associate Editor, *Cortex* – 2011-2013

Handling Editor (Cognitive Neuroscience section), *NeuroImage* – June 2005-June 2008

Ad hoc reviewing for: *Brain; Brain Imaging and Behavior; Brain Research; Brain and Cognition; Cerebral Cortex; Cortex; Cognition; Cognitive, Affective, & Behavioral Neuroscience; Cognitive Brain Research; Current Biology; European Journal of Neuroscience; Experimental Brain Research; Human Brain Mapping; Journal of The Acoustical Society of America; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: General; Journal of Experimental Psychology: Learning, Memory, & Cognition; Journal of the International Neuropsychological Society; Journal of Memory and Language; Journal of Neurophysiology; Journal of Neuroscience; Journal of Psychiatry & Neuroscience; Learning & Memory; Memory & Cognition; Neural Networks; NeuroImage; Neuron; Neuropsychologia; Neuropsychology; Neuroscience; Neuroscience Letters; Proceedings of the National Academy of Science (USA); Psychology and Aging; Psychological Reports; Psychological Science; Psychoneuroendocrinology; Psychophysiology;*

Public Library of Science (PloS) Biology; Quarterly Journal of Experimental Psychology; Science; Trends in Cognitive Sciences, Vision Research

Professional Societies

Cognitive Neuroscience Society

*Program Committee, Past Chair, 2017-2018; Chair, 2015-2017; Vice Chair, 2012-2015
Symposium Committee, 2011-2012*

Organization for Human Brain Mapping

Abstract Review Committee for Annual Meeting (2007, 2008)

Grant Reviewing

NIH Cognition and Perception Regular Standing Study Section

Temporary panel member (10/2009 meeting); Charter Member (2011-2016).

NIMH Board of Scientific Counselors Review of Laboratory of Brain and Cognition (NIH intramural research program)

Ad hoc reviewer (2016).

National Science Foundation Committee of Visitors

Charged with reviewing the Cognitive Neuroscience Program within the NSF's Division of Behavioral and Cognitive Sciences (BCS); August 2015

NIH F02B – Sensory, Motor and Cognitive Neuroscience Fellowship Study Section.

Panel member for 2007/05; 2010/10; and 2011/02 meetings

NIH Special Emphasis Panel/Scientific Review Group 2007/05 ZRG1 F02B-G (20) (L)

Panel member

Ad-hoc reviewing: Albert Einstein Society (Philadelphia, PA); Medical Research Council (United Kingdom); The Netherlands Organization for Scientific Research (NOW); NIH Biostatistical Methods and Research Design Study Section (BMRD) (formerly SNEM-5); NSF Cognitive Neuroscience program; NSF Major Research Instrumentation competition; Wellcome Trust (United Kingdom)

University of Wisconsin–Madison

Dept. of Psychology: Associate Chair for Undergraduate Studies (2014-present); Climate & Diversity Committee (founder; Chair 2006-2014; member, 2014-2015); New Personnel Committee (elected; 2006-08; 2009-2011; 2011-14); Budgetary SubCommittee (elected; 2007-2008); ad hoc committee on the future of the Harlow Primate Laboratory (Chair; 2010).

PI of NSF grant “REU Site: Psychology Research Experience Program” (2010-2012, NCE 2013 \$271,663 direct costs; renewed for 2014-2016, \$243,990 direct costs), and Director of Psychology Research Experience Program (PREP), which provides intensive mentored research experience for 9 weeks of the summer to ≥ 8 undergraduates from populations that are underrepresented in academic psychology. Responsibilities include facilitating weekly “Research Mentor Training Practicum” for graduate-student research mentors of undergraduate participants.

Neuroscience Training Program: Minority Affairs Committee (2001-2010), Steering Committee (2007-2010; 2015-2017), Awards Committee (2010-2016)

Neurobiology Major: Member of Program Committee that was responsible for the creation, and now the oversight, of this undergraduate major (2014-present)

University-wide: Graduate School Social Studies Research Committee (2010-2013); Health Care Advisory Committee (2009-2012; Chair 2010-2012); Wisconsin Program for Scientific Teaching, committee to adapt Research Mentor Training Seminar to STEM disciplines outside biology (2007-2010).

MENTORING

Graduate students (degree awarded)

Andrew Sheldon, PhD in Neuroscience (2017)
Joshua LaRocque, PhD in Neuroscience (2014)
Adam Riggall, PhD in Psychology (2014)
Bornali Kundu, PhD in Neuroscience (2013)
Yelena Guller, PhD in Neuroscience (2012)
Jarrod Lewis-Peacock, PhD in Psychology (2010)
Daniel Acheson, PhD in Psychology (2009)
Massihullah Hamidi, PhD in Neuroscience (2009)
Richard Holden, PhD in Industrial Engineering and Psychology (2009)

Postdoctoral fellows (training completed)

Elyana Saad, PhD (2014-2016)
Olivia Gosseries, PhD (2013-2016)
Nathan Rose, PhD (2013-2015)
Stephen Emrich, PhD (2011-2012)
Jeffrey Johnson, PhD (2009-2012)
Alexander Shackman, PhD (2010-2011)
Daniel Acheson, PhD (2009-2010)
Eva Ferredoes, PhD (2005-2007)

PUBLICATIONS

Refereed papers

89. Finzi, D., Postle, B.R., Brady, T., Aron, A. (in press). Unexpected events disrupt visuomotor working memory and increase guessing. *Psychonomic Bulletin & Review*.
88. Lapate, R.C., Samaha, J., Rokers, B., Hamzah, H., Postle, B.R., & Davidson, R.J. (in press). Inhibition of lateral prefrontal cortex produces emotionally biased first impressions: A TMS/EEG study. *Psychological Science*.
87. Siclari, F., Baird, B., Perogamvros, L., Bernardi, G., LaRocque, J.J., Riedner, B., Boly, M., Postle, B.R., and Tononi, G. (in press). The neural correlates of dreaming. *Nature Neuroscience*. NIHMS861021
86. Samaha, J. Iemi, L., Postle, B.R. (in press). Prestimulus alpha-band power biases visual discrimination confidence, but not accuracy. *Consciousness and Cognition*.
85. LaRocque, J.J., Riggall, A.C., Emrich, S.M., and Postle, B.R. (in press). Within-category decoding of information in different attentional states in short-term memory. *Cerebral Cortex*. PMID: 27702811
84. Emrich, S.M., Johnson, J.S., Sutterer, D.W., and Postle, B.R. (in press). Comparing the effects of 10-Hz rTMS on tasks of visual short-term memory and attention. *Journal of Cognitive Neuroscience*. PMC5199610
83. Samaha, J., Gosseries, O., and Postle, B.R. (2017). Electrophysiological correlates of phosphene perception induced by stimulation of human occipital and parietal cortex. *The Journal of Neuroscience*, **37**, 2824-2833.
82. Rose, N.S., LaRocque, J.J., Riggall, A.C., Gosseries, O., Starrett, M.J., Meyering, E.M., and Postle, B.R. (2016). Reactivation of latent working memories with transcranial magnetic stimulation. *Science*, **354**, 1136-1139. NIHMS838742
81. Samaha, J., Sprague, T.C., and Postle, B.R. (2016). Decoding and reconstructing the focus of spatial attention from the topography of alpha-band oscillations. *Journal of Cognitive Neuroscience*, **28**, 1090-1097. PMC5074376

80. Nieminen, J., Gosseries, O., Massimini, M., Saad, E., Sheldon, A.D., Boly, M., Siclari, F., Postle, B.R., and Tononi, G. (2016). Consciousness and cortical responsiveness: a within-state study during non-rapid eye movement sleep. *Scientific Reports*, 6:30932 | DOI: 10.1038/srep30932. PMC4974655
79. Postle, B.R. (2016). How does the brain keep information “in mind”? *Current Directions in Psychological Science*, 25, 151-156. PMC5115785
78. Samaha, J., Barrett, J.J., Sheldon, A.D., LaRocque, J.J., and Postle, B.R. (2016). Dissociating perceptual confidence from discrimination accuracy reveals no influence of metacognitive awareness on working memory. *Frontiers in Psychology*, 7:851. doi: 10.3389/fpsyg.2016.00851. PMC4893488
77. Samaha, J. and Postle, B.R. (2015). The speed of alpha-band oscillations predicts the temporal resolution of visual perception. *Current Biology*, 25, 2985-2990. PMC4654641
76. Lewis-Peacock, J.A., Drysdale, A.D., and Postle, B.R. (2015). Neural evidence for the flexible control of mental representations. *Cerebral Cortex*, 25, 3303-3313. PMC4598817
75. Samaha, J., Bauer, P., Cimarioli, S., & Postle, B.R. (2015). Top-down control of the phase of alpha-band oscillations as a mechanism for temporal prediction. *Proceedings of the National Academy of Science (USA)*, 112, 8439–8444. PMC4500260
74. Kundu, B., Chang, J-Y; Postle, B.R., and Van Veen, B.D. (2015). Context-specific differences in fronto-parieto-occipital effective connectivity during short-term memory maintenance. *NeuroImage*, 114, 320-327. PMC4446161
73. Postle, B.R. (2015). Neural bases of the short-term retention of visual information. In: *Mechanisms of Sensory Working Memory: Attention & Performance XXV*. P. Jolicoeur, C. Lefebvre, and J. Martinez-Trujillo (Eds.), Academic Press, London, U.K., pp. 43-58.
72. D’Esposito, M. and Postle, B.R. (2015). The cognitive neuroscience of working memory. *Annual Review of Psychology*, 66, 115-42. PMC4374359
71. Postle, B.R. (2015). The cognitive neuroscience of visual short-term memory. *Current Opinion in Behavioral Sciences*, 1, 40-46. PMC4621097
70. LaRocque, J.J., Eichenbaum, A. *, Starrett, M.J. *, Rose, N., Emrich, S., and Postle, B.R. (2015). The short- and long-term fate of memory items retained outside the focus of attention. *Memory & Cognition*, 43, 453-468. DOI 10.3758/s13421-014-0486-y. PMC4447501
69. Kundu, B., Johnson, J.S., and Postle, B.R. (2014). Pre-stimulation phase predicts the TMS-evoked response. *Journal of Neurophysiology*, 112, 1885-1893. PMC4200008
68. Kundu, B., Johnson, J.S., and Postle, B.R. (2014). Trait-like differences in underlying oscillatory state predict individual differences in the TMS-evoked response. *Brain Stimulation*, 7, 234-242. PMC3959568
67. LaRocque, J.J., Lewis-Peacock, J.A., and Postle, B.R. (2014). Multiple neural states of representation in short-term memory? It's a matter of attention. *Frontiers in Human Neuroscience*, 8:5. doi: 10.3389/fnhum.2014.00005. PMC4447501
66. Postle, B.R., Awh, E., Serences, J.T., Sutterer, D.W., and D’Esposito, M. (2013). The positional-specificity effect reveals a passive-trace contribution to visual short-term memory. *PLoS ONE*. 8(12): e83483. doi:10.1371/journal.pone.0083483. PMC3873305
65. *Siclari, F., *LaRocque, J.J., Postle, B.R., and Tononi, G. (2013). Assessing sleep consciousness within subjects using a serial awakening paradigm. *Frontiers in Psychology: Consciousness Research*. 4:542. doi: 10.3389/fpsyg.2013.00542. PMC3747360
64. Kundu, B., Sutterer, D.W., Emrich, S.M., and Postle, B.R. (2013). Strengthened effective connectivity underlies transfer of working memory training to tests of short-term memory and attention. *The Journal of Neuroscience*, 33, 8705-8715. PMC3758887

63. *Emrich, S.M., *Riggall, A.C., LaRocque, J.J., and Postle, B.R. (2013). Distributed patterns of activity in sensory cortex reflect the precision of multiple items maintained in visual short-term memory. *The Journal of Neuroscience*, **33**, 6516-6523. PMC3664518
62. LaRocque, J.J., Lewis-Peacock, J., Drysdale, A., Oberauer, K., and Postle, B.R. (2013). Decoding attended information in short-term memory: An EEG study. *Journal of Cognitive Neuroscience*, **25**, 127-142. PMC3775605
61. Guller, Y., Tononi, G., and Postle, B.R. (2012). Conserved functional connectivity but impaired effective connectivity of thalamocortical circuitry in schizophrenia. *Brain Connectivity*, **2**, 311-319. PMC3621336
60. Guller, Y., Ferrarelli, F., Shackman, A.J., Sarasso, S., Peterson, M.J., Langheim, F.J., Meyerand, M.E., Tononi, G., and Postle, B.R. (2012). Probing thalamic integrity in schizophrenia using concurrent transcranial magnetic stimulation and functional magnetic resonance imaging. *Archives of General Psychiatry*, **69**, 662-671. PMC3411883
59. Ferrarelli, F., Sarasso, S., Guller, Y., Riedner, B., Peterson, M., Bellesi, M., Massimini, M., Postle, B.R., and Tononi, G. (2012). Reduced oscillatory frequency of thalamo-cortical circuits in schizophrenia. *Archives of General Psychiatry*, **69**, 766-774. PMC3394893
58. Riggall, A.C. and Postle, B.R. (2012). The relationship between working memory storage and elevated activity, as measured with fMRI. *The Journal of Neuroscience*, **32**, 12990-12998. PMC3470886
57. Johnson, J.S., Kundu, B., Casali, A.G., and Postle, B.R. (2012). Task dependent changes in cortical excitability and effective connectivity: A combined TMS-EEG study. *Journal of Neurophysiology*, **107**, 2383-2392. PMC3362246
56. Lewis-Peacock, J. and Postle, B.R. (2012). Decoding the internal focus of attention. *Neuropsychologia*, **50**, 470-478. PMC3288445
55. Tsujimoto, S. and Postle, B.R. (2012). The prefrontal cortex and oculomotor delayed response: a reconsideration of the “mnemonic scotoma”. *Journal of Cognitive Neuroscience*, **12**, 627-635. PMC3269537
54. Lewis-Peacock, J., Drysdale, A., Oberauer, K., and Postle, B.R. (2012). Neural evidence for a distinction between short-term memory and the focus of attention. *Journal of Cognitive Neuroscience*, **24**, 61-79. PMC3222712
53. Hattikudur, S. and Postle, B.R. (2011). Effects of test-enhanced learning in a cognitive psychology course. *Journal of Behavioral and Neuroscience Research*, **9**, 151-157.
52. Koenigs, M., Acheson, D., Barbey, A., Solomon, J., Postle, B.R., and Grafman, J. (2011). Areas of left perisylvian cortex mediate auditory-verbal short-term memory. *Neuropsychologia*, **49**, 3612-36129. PMC3209761
51. Johnson, J.S., Sutterer, D.W., Acheson, D.J., Lewis-Peacock, J.L., and Postle, B.R. (2011). Increased alpha-band power during the retention of shapes and shape-location associations in visual short-term memory. *Frontiers in Psychology*, **2**:128. doi: 10.3389/fpsyg.2011.00128. PMC3114253
50. Acheson, D.J., MacDonald, M.C., and Postle, B.R. (2011). The effect of concurrent semantic categorization on delayed serial recall. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, **37**, 44-59. PMC3081404
49. Acheson, D.J., Hamidi, M., Binder, J., and Postle, B.R. (2011). A common neural substrate for language production and verbal working memory. *Journal of Cognitive Neuroscience*, **23**, 1358-1367. PMC3053417
48. *Hamidi, M., *Johnson, J.S., Feredoes, E., and Postle, B.R. (2011). Does high-frequency repetitive transcranial magnetic stimulation produce residual and/or cumulative effects within an experimental session? *Brain Topography*, **23**, 355-367. PMC2978750
47. Johnson, J.S., Hamidi, M., and Postle, B.R. (2010). Using EEG to explore how rTMS produces its effects on behavior. *Brain Topography*, **22**, 281-293. PMC2907910

46. Feredoes, E. and Postle, B.R. (2010). Prefrontal control of familiarity and recollection in working memory. *Journal of Cognitive Neuroscience*, **22**, 323-330. PMC2807902
45. Acheson, D.J., Postle, B.R., MacDonald, M.C. (2010). The interaction of concreteness and phonological similarity in verbal working memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. **36**, 17-36. PMC3000525
44. Hamidi, M., Slagter, H.A., Tononi, G., and Postle, B.R. (2010). Brain responses evoked by high-frequency repetitive TMS: An ERP study. *Brain Stimulation*, **3**, 2-14. PMC2707056
43. Postle, B.R. and Feredoes, E. (2010). Stronger inference with direct manipulation of brain function. *Cortex*, **26**, 121-123. PMC2787675
42. Koenigs, M.R., Barbey, A., Postle, B.R., and Grafman, J. (2009). Superior parietal cortex is critical for the manipulation of information in working memory. *The Journal of Neuroscience*, **29**, 14980-14986. PMC2799248
41. Hamidi, M., Slagter, H.A., Tononi, G., and Postle, B.R. (2009). Repetitive transcranial magnetic stimulation affects behavior by biasing endogenous cortical oscillations. *Frontiers in Integrative Neuroscience*, **3**:14. doi:10.3389/neuro.07.014.2009. PMC2707056
40. Hamidi, M., Tononi, G., and Postle, B.R. (2009). Evaluating the role of prefrontal and parietal cortices in memory-guided response with repetitive transcranial magnetic stimulation. *Neuropsychologia*, **47**, 295-302. PMC2704005
39. Lewis-Peacock, J., and Postle, B.R. (2008). Temporary activation of long-term memory supports working memory. *The Journal of Neuroscience*, **28**, 8765-8771. PMC2699183
38. Hamidi, M., Tononi, G., and Postle, B.R. (2008). Evaluating frontal and parietal contributions to spatial working memory with repetitive transcranial magnetic stimulation. *Brain Research*, **1230**, 202-210. PMC2612637
37. Feredoes, E., Tononi, G., and Postle, B.R. (2007). The neural bases of the short-term storage of verbal information are anatomically variable across individuals. *The Journal of Neuroscience*, **27**, 11003-11008. PMID: 17928441
36. Postle, B.R. and Hamidi, M. (2007). Nonvisual codes and nonvisual brain areas support visual working memory. *Cerebral Cortex*, **17**, 2134-2142. PMID: 17150984
35. Gennari, S.P., MacDonald, M.C., Postle, B.R., and Seidenberg, M.S. (2007). Context-dependent interpretation of words: evidence for interactive neural processes. *NeuroImage* **35**, 1278-1286. PMC2577612
34. Feredoes, E. and Postle, B.R. (2007). Localization of load sensitivity of working memory storage: Quantitatively and qualitatively discrepant results yielded by single-subject and group-averaged approaches to fMRI group analysis. *NeuroImage*, **35**, 881-903. PMC1994574
33. Feredoes, E., Tononi, G., and Postle, B.R. (2006). Direct evidence for a prefrontal contribution to the control of proactive interference in verbal working memory. *Proceedings of the National Academy of Science (USA)*, **103**, 19530-19534. PMC1748259
32. Postle, B.R., Ferrarelli, F., Hamidi, M., Feredoes, E., Massimini, Peterson, M., Alexander, A., and Tononi, G. (2006). Repetitive transcranial magnetic stimulation dissociates working memory manipulation from retention functions in prefrontal, but not posterior parietal, cortex. *Journal of Cognitive Neuroscience*, **18**, 1712-1722. PMID: 17014375
31. Postle, B.R. (2006). Distraction-spanning sustained activity during delayed recognition of locations. *NeuroImage*, **30**, 950-962.
30. D'Esposito, M., Cooney, J., Gazzaley, A., Gibbs, S.E.B., & Postle, B.R. (2006). Is the prefrontal cortex necessary for delay task performance? Evidence from lesion and fMRI data. *Journal of the International Neuropsychological Society*, **12**, 248-260.

29. Postle, B.R. (2006). Working memory as an emergent property of the mind and brain. *Neuroscience*, **139**, 23-38. PMC1428794
October 2011: designated a "Top-5 most cited article" published in this journal during the period 2006-2010.
28. Postle, B.R., Idzikowski, C., Della Sala, S., Logie, R.H., and Baddeley, A.D. (2006). The selective disruption of spatial working memory by eye movements. *The Quarterly Journal of Experimental Psychology*, **59**, 100-120. PMC1414070
27. Postle, B.R. (2005). Delay-period activity in prefrontal cortex: one function is sensory gating. *Journal of Cognitive Neuroscience*, **17**, 1679-1690. PMC1343532
26. Postle, B.R., D'Esposito, M., and Corkin, S. (2005). Effects of verbal and nonverbal interference on spatial and object visual working memory. *Memory & Cognition*, **33**, 203-212. PMC1262675
25. Postle, B.R., Brush, L.N., and Nick, A.M. (2004). Prefrontal cortex and the mediation of proactive interference in working memory. *Cognitive, Affective, & Behavioral Neuroscience*, **4**, 600-608. PMC1201535
24. Postle, B.R. and Brush, L.N. (2004). The neural bases of the effects of item-nonspecific proactive interference in working memory. *Cognitive, Affective, & Behavioral Neuroscience*, **4**, 379-392. PMC1200452
23. Postle, B.R., Awh, E., Jonides, J., Smith, E.E., D'Esposito, M. (2004). The where and how of attention-based rehearsal in spatial working memory. *Cognitive Brain Research*, **20**, 194-205.
22. Postle, B.R. (2003). Context in verbal short-term memory. *Memory & Cognition*, **31**, 1198-1207.
21. Postle, B.R., Druzgal, T.J., D'Esposito, M. (2003). Seeking the Neural Substrates of Visual Working Memory Storage. *Cortex*, **39**, 927-946.
20. Postle, B.R. & D'Esposito, M. (2003). Spatial working memory activity of the caudate nucleus is sensitive to frame of reference. *Cognitive, Affective, & Behavioral Neuroscience*, **3**, 133-144.
19. Postle, B.R., Berger, J.S., Goldstein, J.H., Curtis, C.E., and D'Esposito, M. (2001). Behavioral and neurophysiological correlates of episodic coding, proactive interference, and list length effects in a running span verbal working memory task. *Cognitive, Affective, & Behavioral Neuroscience*, **1**, 10-21.
18. Postle, B.R., Berger, J.S., Taich, A.M., and D'Esposito, M. (2000). Activity in human frontal cortex associated with spatial working memory and saccadic behavior. *Journal of Cognitive Neuroscience*, **12**, Suppl. 2, 2-14.
17. D'Esposito, M. and Postle, B.R. (2000). Neural correlates of component processes of working memory: evidence from neuropsychological and pharmacological studies. In *Control of Cognitive Processes: Attention & Performance XVIII* (S. Monsell and J. Driver, eds.), pp. 579-602.
16. Postle, B.R. and D'Esposito, M. (2000). Evaluating models of the topographical organization of working memory function in frontal cortex with event-related fMRI. *Psychobiology*, **28**, 132-145.
15. D'Esposito, M., Postle, B.R., and Rypma, B. (2000). Prefrontal cortical contributions to working memory: evidence from event-related fMRI studies. *Experimental Brain Research*, **133**, 3-11.
14. Postle, B.R., Stern, C.E., Rosen, B.R., Corkin, S. (2000). An fMRI investigation of cortical contributions to spatial and nonspatial visual working memory. *NeuroImage*, **11**, 409-423.
13. Postle, B.R., Zarahn, E., and D'Esposito, M. (2000). Using event-related fMRI to assess delay-period activity during performance of spatial and nonspatial working memory tasks. *Brain Research Protocols*, **5**, 57-66.
12. Postle, B.R., Berger, J. S., and D'Esposito, M. (1999). Functional neuroanatomical double dissociation of mnemonic and executive control processes contributing to working memory. *Proceedings of the National Academy of Sciences (USA)*, **96**, 12959-12964. PMC23182
11. D'Esposito, M., Postle, B.R., Ballard, D., and Lease, J. (1999). Maintenance versus manipulation of information held in working memory: an fMRI study. *Brain & Cognition*, **41**, 66-86.

10. Postle, B.R. and D'Esposito, M. (1999). "What" - then - "where" in visual working memory: an event-related fMRI study. *Journal of Cognitive Neuroscience*, **11**, 585-597.
9. Hood, K. L., Postle, B. R., and Corkin, S. (1999). An evaluation of the concurrent discrimination task as a measure of habit learning: Performance of amnesic subjects. *Neuropsychologia*, **37**, 1375-1386.
8. D'Esposito, M. and Postle, B.R. (1999). The dependence of span and delayed-response performance on prefrontal cortex. *Neuropsychologia*, **37**, 1303-1315.
7. Postle, B.R. and D'Esposito, M. (1999). Dissociation of human caudate nucleus activity in spatial and nonspatial working memory. *Cognitive Brain Research*, **8**, 107-115.
6. D'Esposito, M., Postle, B.R., Jonides, J., and Smith, E.E. (1999). The neural substrate and temporal dynamics of interference effects in working memory as revealed by event-related fMRI. *Proceedings of the National Academy of Sciences (USA)*, **96**, 7514-7519. PMC22117
5. Postle, B.R. and Corkin, S. (1999). Manipulation of familiarity reveals a necessary lexical component of the word-stem completion priming effect. *Memory & Cognition*, **27**, 12-25.
4. Postle, B.R. and Corkin, S. (1998). Impaired word-stem completion priming with novel words: Evidence from the amnesic patient H.M. *Neuropsychologia*, **36**, 421-440.
3. Postle, B.R., Locascio, J.J., Corkin, S. and Growdon, J.H. (1997). The time course of spatial and object learning in Parkinson's disease. *Neuropsychologia*, **35**, 1413-1422.
2. Postle, B.R., Jonides, J., Smith, E., Corkin, S., and Growdon, J.H. (1997). Spatial, but not object, delayed response is impaired in early Parkinson's disease. *Neuropsychology*, **11**, 171-179.
1. Postle, B.R., Corkin, S., and Growdon, J.H. (1996). Intact implicit memory for novel patterns in Alzheimer's disease. *Learning and Memory*, **3**, 305-312.

(* = these authors contributed equally)

Non-refereed chapters, commentaries, and journal articles

16. Postle, B.R. (2017). Working memory functions of the prefrontal cortex. In M. Watanabe (Ed.) *Prefrontal Cortex as an Executive, Emotional and Social Brain*. Springer. pp. 39-48.
15. Postle, B.R., Kensinger, E. (2016). The unforgettable career of Suzanne Corkin. *Hippocampus*, **26**, 1233-1237.
14. Postle, B.R. (2016). The hippocampus, memory, and consciousness. In S. Laureys, O. Gosseries, and G. Tononi (Eds.) *Neurology of Consciousness, 2nd Ed.* Elsevier (Amsterdam), pp. 349-363.
13. Postle, B.R. (2015). Activation and information in working memory research. In A. Duarte, M. Shields, and D.R. Addis (Eds.) *The Wiley-Blackwell Handbook on the Cognitive Neuroscience of Memory*. Wiley-Blackwell (Oxford, U.K.), pp. 21-43.
12. Postle, B.R. (2011). What underlies the ability to guide action with spatial information that is no longer present in the environment? In A. Vandierendonck and A. Szmalec (Eds.) *Spatial Working Memory*. Psychology Press (Hove, U.K.) pp. 897-101.
11. Postle, B.R. (2009). Mechanisms underlying the short-term retention of information. In F. Rösler, C. Ranganath, B. Röder, and R.H.Kluwe (Eds.). *Neuroimaging of Human Memory: Linking Cognitive Processes to Neural Systems*. Oxford University Press (New York), pp. 213-226.
10. Postle, B.R. and Pasternak, T. (2009). Short term and working memory. In L.R. Squire (Ed.) *Encyclopedia of Neuroscience*. Academic Press (Oxford, U.K.). Vol. **8**, pp. 793-799.
9. Postle, B.R. (2009). The hippocampus, memory, and consciousness. In S. Laureys and G. Tononi (Eds.) *Neurology of Consciousness*. Elsevier (Amsterdam), pp. 326-338.

8. Postle, B.R. (2007). "Activated long-term memory"? The bases of representation in working memory. In N. Osaka, R.H. Logie, and M. D'Esposito (Eds.) *The Cognitive Neuroscience of Working Memory*. Oxford University Press (Oxford, U.K.), pp. 333-349.
7. Postle, B.R. (2005). Analysis of fMRI data from tasks containing temporal dependencies: An evaluation of Slotnick (2005). *Cognitive Neuropsychology*, **22**, 921-924.
6. D'Esposito, M., Postle, B.R., and Rypma, B. (2002). The role of lateral prefrontal cortex in working memory: evidence from event-related fMRI studies. In K. Hirata, Y. Koga, K. Nagata, and Y. Yamazaki (Eds.), *Recent advances in Human Brain Mapping: Proceedings of the 12th World Congress of the International Society for Brain Electromagnetic Topography*. Elsevier Science.
5. Postle, B.R., Shapiro, L.A., and Biesanz, J.C. (2002). On having one's data shared. *Journal of Cognitive Neuroscience*, **14**, 838-840.
4. D'Esposito, M., and Postle, B.R. (2002). The organization of working memory function in lateral prefrontal cortex: Evidence from event-related functional MRI. In (D.T. Stuss & R. Knight, eds.) *Principles of Frontal Lobe Function*. Oxford University Press, pp. 168-187.
3. D'Esposito, M. and Postle, B.R. (2002). The neural basis of working memory storage, rehearsal and control processes: Evidence from patient and functional MRI studies. In: (L.R. Squire and D.L. Schacter, eds.) *The Neuropsychology of Memory*. Guilford Press, pp. 215-224.
2. Nitsch, R.M., Postle, B., Marinescu, V., and Wurtman, R.J. (1995). Biological mechanisms in the pathogenesis and cure of AD. *Drug News and Perspectives*, **8**, 181-188.
1. Nitsch, R.M., Marinescu, V., Postle, B.R., Corkin, S., and Wurtman, R.J. (1995). Eighth Meeting of the International Study Group on the Pharmacology of Memory Disorders Associated with Aging, Zurich, Switzerland. February 17-19, 1995: The Neurobiology of Alzheimer's Disease. *Amyloid*, **2**, 204-212.

Textbook

Postle, B.R. (2015). *Essentials of Cognitive Neuroscience*. John Wiley & Sons, Chichester, U.K.

Abstracts (past three years)

145. Sahan, M.I., Shelson, A.D., and Postle, B.R. (2017). What are the effects of attentional prioritization on multifeature objects in WM? 12th National Conference of the Belgian Society for Neuroscience, May, 2017. Ghent, Belgium.
144. Samaha, J., LaRocque, J.J., Gosseries, O., Tononi, G., and Postle, B.R. (2017). Dissociating neural activity related to subjective visibility and objective performance with simultaneous EEG/fMRI. Annual meeting of the Cognitive Neuroscience Society, March, 2017. San Francisco, CA.
143. Yu, Q., Gosseries, O., & Postle, B.R. (2017). Delay-period functional connectivity between IPS and occipital cortex relates to the precision of visual working memory. Annual meeting of the Cognitive Neuroscience Society, March, 2017. San Francisco, CA.
142. Sheldon, A.D., Saad, E., Sahan, M., Meyering, E., & Postle, B.R. (2017). Regional heterogeneity of the effects of attentional prioritization. Annual meeting of the Cognitive Neuroscience Society, March, 2017. San Francisco, CA.
141. Samaha, J., Sprague, T.C., Voytek, B., Gazzaley, A., & Postle, B.R. (2016). Preparatory encoding of the location and scope of human spatial attention. Annual Meeting of the Society for Neuroscience, November 2016, San Diego, CA.
140. Sheldon, A.D., Saad, E., Meyering, E.E., & Postle, B.R. (2016). Informational connectivity reveals representation-specific gating of information in object-based attention. Annual Meeting of the Society for Neuroscience, November 2016, San Diego, CA.
139. Nieminen, J.O., Gosseries, O., Massimini, M., Saad, E., Sheldon, A.D, Boly, M., Siclari, F., Postle, B.R., and Tononi, G. (2016). Differentiated consciousness from unconsciousness in non-rapid eye movement sleep: a

- combined transcranial magnetic stimulation and high-density EEG study. Association for the Scientific Study of Consciousness: ASSC 20, June, 2016. Buenos Aires, Argentina.
138. Samaha, J., Barrett, J.J., Sheldon, A.D., LaRocque, J.J., and Postle, B.R. (2016). Dissociating perceptual confidence from discrimination accuracy reveals no influence of metacognitive awareness on working memory. Association for the Scientific Study of Consciousness: ASSC 20, June, 2016. Buenos Aires, Argentina.
137. Gosseries, O., Nieminen, J.O., Samaha, J., Boly, M., Massimini, M., Postle, B.R., and Tononi, G. (2016). Transcranial magnetic stimulation in sleep consciousness. Association for the Scientific Study of Consciousness: ASSC 20, June, 2016. Buenos Aires, Argentina.
136. Samaha, J., and Postle, B.R. (2016). The role of alpha-band oscillations in temporal prediction and perception. Annual meeting of the Cognitive Neuroscience Society, April, 2016. New York, NY.
135. Rose, N., LaRocque, J.J., Riggall, A., Gosseries, O., Starrett, M.J., Postle, B.R. (2016). Can transcranial magnetic stimulation bring passively retained items in short-term memory back into focal attention? Annual meeting of the Cognitive Neuroscience Society, April, 2016. New York, NY.
134. Gosavi, R., Meyering, E., Rose, N., Postle, B.R., and Hubbard, E. (2016). Decoding grapheme-color synesthesia using multivariate pattern analysis. Annual meeting of the Cognitive Neuroscience Society, April, 2016. New York, NY.
133. Rose, N.S., Szpunar, K., Maillet, D., Postle, B.R., and Schacter, D.L. (2015). Similarities and differences between imagining the future and remembering the past: Evidence from multi-voxel pattern analysis. Annual meeting of the Psychonomic Society, November, 2015. Chicago, IL.
132. Meyering, E.E., Rose, N.S., Dang, C., Buchsbaum, B.B., Baker, S., Rosenbaum, R.S., & Postle B.R. (2015). Neuroimaging and neuropsychological evidence for different states of representation in working memory. Annual meeting of the Psychonomic Society, November, 2015. Chicago, IL.
131. Gosavi, R., Meyering, E.E., Rose, N.S., Postle, B.R., & Hubbard, E.M. (2015). Decoding Grapheme-Color Synesthesia using Multivariate Pattern Analysis. Annual Meeting of the Society for Neuroscience, October 2015, Chicago, IL.
130. Samaha, J., Mariska, K., Cimaroli, S., & Postle, B.R. (2015). The speed of posterior alpha-band oscillations predicts the speed of visual perception. Annual Meeting of the Society for Neuroscience, October 2015, Chicago, IL.
129. Sheldon, A.D., Kundu, B., & Postle, B.R. (2015). Working memory for visual motion in human MT and MST. Annual Meeting of the Society for Neuroscience, October 2015, Chicago, IL.
128. Saad, E., Starrett, M.J., LaRocque, J.J., Rose, N.S. & Postle, B.R. (2015) Multivariate assessment of biased competition in human visual attention. Annual Meeting of the Society for Neuroscience, October 2015, Chicago, IL.
128. Starrett, M.J., Gosseries, O., LaRocque, J.J., Saad, E., Cowan, N, and Postle, B.R. (2015). Delay-period activity of the parietal cortex depends on working memory load, not interference. Annual Meeting of the Society for Neuroscience, October 2015, Chicago, IL.
127. Lapate, R.C., Samaha, J., Rokers, B., Austermuehle, A., Hamzah, H., Postle, B.R., & Davidson, R.J. (2015). Dorsolateral Prefrontal Cortex, Metacognitive Awareness of Emotional Visual Stimuli, and Emotion Regulation: a TMS/EEG study. Annual Meeting of the Society for Neuroscience, October 2015, Chicago, IL.
126. LaRocque, J., Samaha, J., Gosseries, O., Tononi, G., & Postle, B.R. (2015). Pre- and post-stimulus neural activity reflecting subjective visibility and objective performance measured with simultaneous EEG/fMRI. Association for the Scientific Study of Consciousness: ASSC 19. July 2015, Paris, France.
125. Starrett, M.J., Rose, N.S., Riggall, A.C., & Postle, B.R. (2015). Effects of rTMS on the EEG signal are more predictive of changes in recall performance than stimulation site. Annual Meeting of the Cognitive Neuroscience Society, March 2015, San Francisco, CA.
124. Samaha, J., Bauer, P., Cimaroli, S., & Postle, B.R. Top-down control of alpha phase as a mechanism of temporal prediction. Annual Meeting of the Cognitive Neuroscience Society, March 2015, San Francisco, CA.
123. Gosseries, O.*, Nieminen, J.O.*, Siclari, F., Boly, M., Casali, A., Postle, B.R., Massimini, M., & Tononi, G. Cortical responses to transcranial magnetic stimulation during non-rapid eye movement sleep. Annual Meeting of the Cognitive Neuroscience Society, March 2015, San Francisco, CA.
122. Rose, N. S., Meyering, E. E., Baker, S., Rosenbaum, R. S., Dang, C., Buchsbaum, B. B., & Postle, B. (2015) Are items in working memory stored with long-term memory mechanisms? Annual Meeting of the Cognitive Neuroscience Society, March 2015, San Francisco, CA.

121. Rose, N.S., LaRocque, J.J., Riggall, A.C., Gosseries, O., and Postle, B.R. (2014). Evidence for a synaptic theory of working memory: An fMRI/EEG/TMS study. Annual meeting of the Psychonomic Society, Long Beach, CA.
120. Sheldon, A.D., Samaha, J., Rose, N.S., Riggall, A.C., Huang, X., and Postle, B.R. (2014). rTMS/EEG of MT+ during STM for transparent motion. Annual Meeting of the Society for Neuroscience, November 2014, Washington, DC.
119. Starrett, M.J., Rose, N.S., Riggall, A.C., and Postle, B.R. (2014). Behavioral and EEG effects of rTMS on recall of items inside versus outside the focus of attention. Annual Meeting of the Society for Neuroscience, November 2014, Washington, DC.
118. Rose, N.S., LaRocque, J.J., Riggall, A.C., Gosseries, O., and Postle, B.R. (2014) What are the neurophysiological bases of attended and unattended items in short-term memory? An fMRI/EEG/TMS study. Annual Meeting of the Society for Neuroscience, November 2014, Washington, DC.
117. Riggall, A.C., Rose, N.S., Starrett, M.J., and Postle, B.R. (2014). Frontoparietal contributions to the short-term retention of motion and color. Annual Meeting of the Society for Neuroscience, November 2014, Washington, DC.
116. Gosseries, O., LaRocque, J.J., Riggall, A.C., Starrett, M.J., and Postle, B.R. (2014). Theta burst stimulation to MT+ versus IPS: effect on behavioral and neural fidelity in short-term memory. Annual Meeting of the Society for Neuroscience, November 2014, Washington, DC.
115. Samaha, J., Cimaroli, S., and Postle, B.R. (2014). The effect of temporal attention on neural oscillations, discrimination accuracy, and subjective visibility. Association for the Scientific Study of Consciousness: ASSC 18. July 2014, Brisbane, Australia.
114. LaRocque, J.J., Samaha, J., Gosseries, O., Tononi, G., and Postle, B.R. (2014). Stimulus-evoked neural activity and intrinsic variations in visual awareness: and EEG/fMRI study. Association for the Scientific Study of Consciousness: ASSC 18. July 2014, Brisbane, Australia.
113. Riggall, A.C. and Postle, B.R. (2014). Mapping the spatial distribution of short-term memory representations for visual motion. Vision Sciences Society, May 2014, St. Pete Beach, FL.
112. Starrett, M.J., LaRocque, J.J., Rose, N.S., and Postle, B.R. (2014). In short-term memory but outside of the focus of attention: A role for long-term memory? Annual Meeting of the Cognitive Neuroscience Society, April 2014, Boston, MA.
111. Gosseries, O., LaRocque, J.J., Riggall, A.C., Starrett, M.J., and Postle, B.R. (2014). Effect of theta burst stimulation on visual representation during a short-term memory task. Annual Meeting of the Cognitive Neuroscience Society, April 2014, Boston, MA.
110. Rose, N.S., LaRocque, J.J., Riggall, A.C., Gosseries, O., and Postle, B.R. (2014) How are attended and unattended items in short-term memory represented? An fMRI/EEG/TMS study. Annual Meeting of the Cognitive Neuroscience Society, April 2014, Boston, MA.
109. Eichenbaum, A., LaRocque, J.J., Emrich, S.M. and Postle, B.R. (2014). The precision of short-term memory items retained inside and outside the focus of attention. Annual Meeting of the Cognitive Neuroscience Society, April 2014, Boston, MA.
108. Samaha, J., Gosseries, O., and Postle, B.R. (2014). Exploring the neural dynamics of occipital and parietal phosphenes with combined TMS-EEG. Annual Meeting of the Cognitive Neuroscience Society, April 2014, Boston, MA.

INVITED LECTURES AND SYMPOSIA

- “Advances in Memory Systems”, sponsored by the Center for Learning, Memory and Emotion, New York University. *May 2017*
- University of Wisconsin–Madison, Dept. of Neuroscience. *April 2017*.
- Vanderbilt University, Dept. of Psychology. *March 2017*.
- “Visual Working Memory Symposium”, NYU Abu Dhabi. *February 2017*.
- Control Processes conference, La Jolla, CA. *November 2016*.
- Memory Disorders Research Society, Annual Meeting. *Organizer of membership-elected symposium* “How do we keep information ‘in mind’?” *featuring* Earl Miller (MIT), Emrah Duzel (Univ. Coll. London), and myself. *September 2016*
- University of Rochester, Dept. of Neuroscience. *September 2016*

- European Working Memory Symposium, Liège, Belgium. *Keynote address. September 2016*
- Maastricht University, Cognitive Neuroscience Department. *August 2016*
- University of Texas at Austin, Dept. of Psychology. *April 2016*
- Florida State University, Dept. of Psychology and Program in Neuroscience. *April 2016*
- University of Colorado Boulder, Dept. of Psychology and Neuroscience. *March 2016*
- University of Alberta, 30th Annual Joseph R. Royce Psychology Research Conference. *Keynote Address. March 2016*
- University of California, Los Angeles, Brain Mapping Center. *March 2016*
- University of Rochester, Dept. of Brain and Cognitive Sciences. *January 2016*
- University of California, Berkeley, Dept. of Psychology and Helen Wills Neuroscience Institute. *January 2016*
- Stanford University, Dept. of Psychology, Friday Cognitive and Neuroscience Seminar. *November 2015*
- University of California, Davis, Center for Neuroscience. *Perspectives in Neuroscience seminar series. November 2015*
- Memory Disorders Research Society, Annual Meeting. *Organizer of membership-elected symposium “Attention and Memory: A Two-Way Street” featuring Kia Nobre (Oxford Univ.), Sharon Thompson-Schill (Univ. of Pennsylvania), Jarrod Lewis-Peacock (Univ. of Texas at Austin), and David Badre (Brown Univ.). September 2015*
- MRC Cognition & Brain Sciences Unit (Cambridge, England). *September 2015*
- “Brain Rhythms as Potential Targets for Intervention in Cognitive Dysfunctions.” Banbury Conference, Cold Spring Harbor Laboratories. *Scientific consultant for this conference organized and sponsored by the NIMH. March 2015.*
- University of North Carolina Chapel Hill Biomedical Research Imaging Center,, *September 2014.*
- Center for Cognition, Learning and Memory Summer School, University of Bern, Switzerland. *Invited faculty, giving two talks and consulting with graduate students on their presentations and in 1-on-1 meetings. June 2014.*
- Icahn School of Medicine at Mount Sinai, Dept. of Neuroscience. *April 2014.*
- Cognitive Neuroscience Society, 2014 Annual Meeting (Boston, MA). *Invited participant in minisymposium on “Contributions of alpha-band oscillations in cognition”, organized by H.A. Slagter.*
- University of Missouri, Dept. of Psychology. *March 2014.*
- Charles River Association for Memory, hosted by the Boston University Center for Memory and Brain. *March 2014.*
- George Washington University, Institute for Neuroscience. *March 2014.*
- Michigan State University, Dept. of Psychology “Cognitive Forum”. *January 2014.*
- Society for Neuroscience, 2013 Annual Meeting (San Diego, CA). *Co-organizer, together with PhD advisee Joshua LaRocque, of Nanosymposium “Perception, Attention, and Working Memory”. November 2013.*
- “Cortex, Consciousness and Anesthesia 2013”, UW-Madison. *Invited presentation. November 2013.*
- Memory Disorders Research Society, Annual Meeting. *Organizer of membership-elected symposium “The implications of multivariate analysis for our understanding the neural representation of information” featuring Howard Eichenbaum (Boston Univ.), Nick Turk-Browne (Princeton Univ.), Tim Rogers (Univ. of Wisconsin-Madison), and Sean Polyn (Vanderbilt Univ.). October 2013.*
- University of Texas at Dallas, Center for Vital Longevity. *September 2013.*
- Attention & Performance XXV. *Invited presentation. (Montreal, PQ) July 2013.*
- 20th Annual APS-STP Teaching Institute (coinciding with annual meeting of the Association for Psychological Science; Washington DC). *Invited presentation. May 2013.*
- “Understanding and Modifying Electrophysiological Patterns in the Developing Brain: Current Trends and Future Directions.” *National Institute of Mental Health, Rockville, MD. May 2013*
- “Enhancing the Teaching of Psychology.” *UW System-wide conference (Stevens Point, WI) May 2013*
- Cognitive Neuroscience Society, 2013 Annual Meeting (San Francisco, CA). *Co-organizer, together with PhD advisee Bornali Kundu, of Mini-Symposium “The Effects of Working Memory Training on Brain and Behavior” featuring Susanne Jaeggi (University of Maryland-College Park), Christos Constantinides (Wake Forest School of Medicine), Torkel Klingberg (Karolinska Institute, Stockholm), and Bornali Kundu (University of Wisconsin-Madison). April 2013*
- Brown University, Departments of Neuroscience and of Cognitive, Linguistic and Psychological Sciences. *December 2012.*

- "Memory and the Brain over the Life Span; A Symposium Honoring the Career and Scientific Contributions of Suzanne Corkin, PhD". *Invited speaker this symposium organized by the MIT Department of Brain and Cognitive Sciences. December 2012.*
- MIT, McGovern Institute for Brain Research. *December 2012.*
- Psychonomic Society, 2012 Annual Meeting. *Organizer of slide session "Multiple states of working memory: A new era of fractionation?" featuring myself, Chris Olivers (Vrije Universiteit Amsterdam), Geoff Woodman (Vanderbilt U.), Jarrod Lewis-Peacock (Princeton U.), and Ilja Sligte (U. of Amsterdam).*
- "Funciones Cognitivas del Lóbulo Frontal (Cognitive Functions of the Frontal Lobe)". *Invited speaker at this conference organized by INECO (Instituto de Neurología Cognitiva (Institute of Cognitive and Behavioural Neurology)), Buenos Aires, Argentina. October 2012*
- "Coordinated neural activity supporting cognitive processes." *Invited speaker at this satellite symposium to the 2012 annual meeting of the Society for Neuroscience, organized by the Division of Neuroscience and Basic Behavioral Science of the National Institute of Mental Health*
- University of Illinois Urbana Champaign, Department of Psychology and Beckman Institute. *September 2012.*
- Midwestern Psychological Association. *Invited Paper. May 2012*
- University of Wisconsin-Milwaukee, Neuroscience Seminar Series. *March 2012*
- University College London, Institute of Cognitive Neuroscience. *Invited speaker at workshop on "Decoding brain activity: from neural mechanisms to applications". October 2011*
- XI International Conference on Cognitive Neuroscience (ICON). *Organizer of symposium "Probing Cortical Oscillations with Transcranial Stimulation", featuring Marcello Massimini/Mario Rosanova, University of Milan, Peter Brown/Ned Jenkinson, Oxford University, Gregor Thut, University of Glasgow, and myself. September 2011*
- XI International Conference on Cognitive Neuroscience (ICON). *Invited speaker for symposium "Current Trends in Working Memory Research: Evidence from Functional Neuroimaging". September 2011*
- 5th International Conference on Memory (ICOM 5). *Invited speaker for symposium "Models of Working Memory". August 2011*
- University of Zurich, Laboratory for Social and Neural Systems. *April 2011*
- University of Zurich, Dept. of Psychology. *April 2011*
- 2011 Reprogramming the Human Brain Symposium—"Cognitive Control: from Bench to Bedside". (University of California, Berkeley) *Invited speaker. March 2011*
- University of Rochester, Dept. of Brain and Cognitive Sciences. *November 2010*
- Memory Disorders Research Society, Annual Meeting. *Organizer of membership-elected symposium "Neuronal Oscillations and Memory" featuring Neil Burgess (Univ. Coll. London), Emrah Duzel (Univ. Coll. London), Charan Ranganath (UC-Davis), and myself. October 2010.*
- University of Maryland, Cognitive Science Colloquium. *September 2010*
- University College London, Wellcome Centre for Neuroimaging and Institute of Cognitive Neuroscience. *July 2010*
- Queens University, Centre for Neuroscience Studies. *April 2010*
- Université de Montréal, Centre de Recherche en Neuropsychologie et Cognition. *April 2010*
- Northwestern University, Cognitive Neurology and Alzheimer's Disease Center. *February 2009*
- Cornell University, Dept. of Human Development. *October 2008*
- International Society for Behavioral Neuroscience, Sixteenth Annual Meeting (Sydney, Australia). *Organizer of membership-elected symposium "New Directions in TMS Research," featuring Jason Mattingly, Univ. of Queensland; Tomas Paus, Univ. of Nottingham; Christian Ruff, Univ. College of London; and myself. June 2008*
- NeuroAct joint program of the University of Marburg and the Justus-Liebig University of Giessen, Germany. *Invited speaker at Graduate School Memory Workshop. June 2008*
- University of Wisconsin-Milwaukee, Dept. of Psychology. *September 2007*
- Brown University, Brain Sciences Program. *March 2007*
- Brown University, Depts. of Psychology and of Cognitive and Linguistic Sciences. *February 2007*
- University of South Carolina, Dept. of Psychology. *December 2006*
- Society for Neuroscience, 2006 Annual Meeting (Atlanta, GA). *Organizer of symposium "Cortical contributions to working memory storage" featuring Carlos Brody (Cold Spring Harbor Laboratory), Tatiana Pasternak (Univ. of Rochester), myself, and Masataka Watanabe (Tokyo Metropolitan Institute for Neuroscience). October 2006*

- Memory Disorders Research Society *Organizer of membership-elected symposium* "Is the concept of the Memory System still valuable?" *featuring David Gaffan (Oxford U.), Barbara Knowlton (UCLA), myself, Charan Ranganath (UC-Davis), Paul Reber (Northwestern U.), and Dan Schacter (Harvard U.). September 2006*
- Brandeis University, IGERT Neuroscience Seminar. *September 2006*
- University of California, Davis, Center for Mind and Brain, Center for Neuroscience, and Department of Psychology. *September 2006*
- University of California, Berkeley, Institute of Cognitive and Brain Sciences. *September 2006*
- "Neuroimaging and Psychological Theories of Human Memory" (Marburg, Germany). *Invited speaker. August 2006*
- Brain Development and Learning: Making Sense of the Science (Vancouver, BC). *Invited speaker. August 2006*
- University of British Columbia, Department of Psychology. *August 2006*
- International Society for Behavioral Neuroscience, Fourteenth Annual Meeting (Bath Spa, U.K.). *Organizer of membership-elected symposium* "Attention, motor control, and working memory. 3, 2, or 1 constructs?" *featuring Tirin Moore (Stanford Medical School), Marin Pare (Queens University), Clayton Curtis (NYU), and Todd Braver (Washington University). July 2006*
- MRC Cognition & Brain Sciences Unit (Cambridge, England). *June 2006*
- Cognitive Neuroscience Society, 2006 Annual Meeting (San Francisco, CA). *Organizer of symposium* "Working Memory: System, or Emergent Property?" *featuring Mikhail Lebedev (Duke University), Tatiana Pasternak (Univ. of Rochester), Jan Theeuwes (Vrije Universiteit, Amsterdam), and myself. April 2006*
- Vanderbilt University, Department of Psychology Neuroscience Seminar *September 2005*
- Second International Conference on Working Memory 2004 Kyoto (ICWM-2, Kyoto, Japan). *Invited speaker. August 2004*
- Memory Disorders Research Society, 2002 meeting (San Francisco, CA). *Invited speaker. October 2002*
- KAIST (Korean Advanced Institute for Science and Technology; Daejun, Korea). *Invited speaker at "1st International Workshop on Functional MRI". July 2001*
- International Society for Behavioral Neuroscience, Ninth Annual Meeting (Marrakech, Morocco). *Co-organizer (with Adrian Owen) of membership-elected symposium* "2001: A Frontal-lobe Odyssey," *featuring John Duncan, MRC Cognition and Brain Sciences Unit; Apostolos Georgopoulos, University of Minnesota; Earl Miller, MIT; Yuko Munakata, University of Colorado; Adrian Owen, MRC Cognition and Brain Sciences Unit; Randy O'Reilly, University of Colorado; and myself. May 2001*
- Mind Matters Seminars: "Memory: A Seminar for Health Professionals." *Engaged by this Los Altos, California-based educational seminar company to deliver day-long (six-hour) seminars to audiences composed of health professionals and educators. Delivered more than 50 seminars in AL, FL, GA, IA, IL, IN, KY, NC, TX, VA and WI.*
- NSF Spatial Intelligence Conference (Chicago, IL.). *Invited speaker. October 1999*
- International Society for Behavioral Neuroscience, Seventh Annual Meeting (Santorini, Greece). *Invited speaker at symposium on "Single Event fMRI". July 1999*
- University of Washington, Department of Psychology. *August 1997*
- MGH-NMR Center. *Invited lecture at "Visiting Fellowship Program in Functional MRI." February 1997*

TEACHING EXPERIENCE

- University of Wisconsin-Madison, Psychology 711: "Essentials of Cognitive Neuroscience" (*grad. lecture*) *Fall 2016*
- University of California, San Diego, Cogs 1: "Introduction to Cognitive Science." (*Delivered guest lecture on the Cognitive Neuroscience of Consciousness*) *Fall 2015*
- University of Wisconsin-Madison, Psychology 711: "Cognitive Neuroscience of Attention and Memory" (*grad. seminar*) *Fall 2014*
- University of Wisconsin-Madison, Neuroscience Training Program 900: "Seminar; Spring 2012 Subgroup #1 'Transcranial Magnetic Stimulation'" (*grad. seminar*) *Spring 2012*
- University of Wisconsin-Madison, Psychology 733: "Principles of Cognitive Neuroscience." (*grad. seminar*) *Fall 2011*
- University of Wisconsin-Madison, Psychology 618: "Research Mentor Training Practicum." (*A weekly seminar for supervisors in the Psychology Research Experience Program*) *Summer 2011.*

University of Wisconsin-Madison, Psychology 733: "Cognitive Neuroscience of Memory." (*grad. seminar*) Spring 2001, Fall 2001, Fall 2003, Fall 2005, Fall 2006, Fall 2010, Fall 2012

University of Wisconsin-Madison, Psychology 414: "Cognitive Psychology." (*undergrad. lecture*) Spring 2001, Spring 2002, Spring 2003, Spring 2004, Spring 2006, Spring 2008, Spring 2010, Spring 2012, Spring 2014

University of Wisconsin-Madison, Psychology 481: "Cognitive Neuroscience." (*undergrad. honors seminar*) Spring 2003, Spring 2004, Spring 2006, Spring 2008, Spring 2010, Spring 2012, Spring 2014

University of Wisconsin-Madison, Psychology 618/697: "Cognitive Neuroscience of Working Memory." (*undergrad. mentored research and seminar*) Every semester from Fall 2001-present.

University of Wisconsin-Madison, Neuroscience 611: "Systems Neuroscience" Co-taught (with Prof. Tom Yin and others) this graduate-level core course of the Neuroscience Training Program, lecturing on the Visual System and Higher Integrative Functions and Behavior, Spring 2008.

University of Wisconsin-Madison, Psychology 386: "Topics in Psychology for Honors Students." (*undergrad. seminar*) Fall 2000

MIT 9.50/9.UR: Undergraduate Research Opportunities Program. Over the course of graduate training, supervised research conducted by more than 10 undergraduates in the Behavioral Neuroscience Laboratory as a part of the UROP Program. Also supervised students participating in summer minority research opportunity programs and high school research opportunity programs. One high school student was named semifinalist in the annual Westinghouse Science Talent Search for a project conducted under my supervision.

MIT 9.97: "Introduction to Neuroanatomy." Co-organizer and co-instructor of this January term ("IAP") short-course. At the time, the highest-enrolled IAP course ever offered by the Department of Brain and Cognitive Sciences, with an annual enrollment at capacity of 75 students. Class consisted of lectures, teaching dissection of a human brain, brain atlas exercises on the World Wide Web, and supervised sheep brain dissections. January 1995; January 1996; January 1997

MIT 9.62: "Introduction to Cognitive Science." Teaching assistant for undergraduate course taught by Professors Mary Potter and Edward Gibson. Presented one lecture. Fall 1996

MIT 9.10/9.100: "Cognitive Neuroscience." Teaching assistant for graduate/ advanced undergraduate level course taught by Professor Suzanne Corkin, with an enrollment of 27 students. Presented three lectures, instituted and led two weekly recitation sections. Spring 1995

MIT 9.00: "Introduction to Psychology." Teaching assistant for undergraduate course taught by Professor Jeremy Wolfe. Led two weekly recitation sections totaling 28 students. Fall 1993