

**BRADLEY ROBINSON POSTLE**

Departments of Psychology and Psychiatry  
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**EDUCATION**

<b>Institution</b> <i>Department, Mentor</i>	<b>Degree/Position</b> <i>Specialization</i>	<b>Date</b>
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
	Affiliate	2007 - 2009
<i>Neuroscience Training Program</i>	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

*"Top-5 most cited article" -- The 2006 review paper "Working memory as an emergent property of the mind and brain" was designated a "Top-5 most cited article" published in the journal Neuroscience during the period 2006-2010. October 2011*

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 (*currently in NCE*).  
*"Investigating Cognitive & Neural Bases of Working Memory" (\$1,914,193 direct costs)*  
role: PI

National Institute of Mental Health; NIH R01 MH095984(06-10); 2019-2024.  
*"Oscillatory Contributions to Working Memory and Attention" (\$2,339,719 direct costs)*  
role: PI

### **External – completed**

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)*

Dana Foundation; 2005-2007.  
*"Anatomical and Functional Connectivity in Schizophrenia" (\$100,000 direct costs)*  
role: Consultant (A. Alexander, PI)

### **Internal – completed**

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

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

*Predoctoral NRSA to Bornali Kundu: "Individual differences and training effects in working memory"*

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

*Predoctoral 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

*Predoctoral 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

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. 1997-2000*

## **AFFILIATIONS**

Cognitive Neuroscience Society

*Member*

Memory Disorders Research Society

*Member*

Society for Neuroscience

*Member*

## **PROFESSIONAL SERVICE**

### **Editorial Responsibilities**

*Journal of Cognitive Neuroscience*, Editor-in-Chief; 2020-present (Associate Editor, 2009-2020)

*eNeuro*, Reviewing Editor; 2016-2020

*Cortex*, Associate Editor; 2011-2013

*NeuroImage*, Handling Editor; 2005-2008

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; eLife; 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; Nature Communications; Nature Neuroscience; 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; PloS Biology; PloS Computational Biology; Quarterly Journal of Experimental Psychology; Science; Science Advances; Trends in Cognitive Sciences, Vision Research; Visual Cognition*

### **Professional Societies**

Society for Neuroscience

*Neuroscience Scholars Program: mentor on several occasions; application reviewer (2020, 2021, 2022)*

Cognitive Neuroscience Society

*Diversity, Equity, and Inclusion Committee (2021-present)*

*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)*

### **Program Reviewing**

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*

### **Grant Reviewing**

NSF Merit Review Panel for *SBE Research Experiences for Undergraduates (REU) Sites Proposals*; October 2021

NIH NINDS: ZNS1 SRB-P (04) *BRAIN Initiative Advanced Postdoctoral Career Transition Awards to Promote Diversity (K99)*; July 2021

NIH *Cognition and Perception* Regular Standing Study Section

*Temporary panel member (Oct. 2009, Feb. 2019); Charter Member (2011-2016);*

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: Climate & Diversity Committee (founder; Chair 2006-2014; member, 2014-2015; member 2020-2022); Associate Chair for Undergraduate Studies (2014-2017); New Personnel Committee (elected; 2006-08; 2009-2011; 2011-14); Budgetary Subcommittee (elected; 2007-2008).*

PI of NSF grant “REU Site: Psychology Research Experience Program” (2010-2012, NCE 2013- \$271,663 direct costs; 2014-2016- \$243,990 direct costs; 2019-2021- \$114,703 Year 1 direct costs; 2022-2024- \$272,292), and Director of *Psychology Research Experience Program (PREP)*, which provides intensive mentored research experience

for 9 weeks of the summer to  $\geq 8$  undergraduates from populations that are underrepresented in academic psychology. Responsibilities include facilitating weekly “Research Mentor Training Practicum” for graduate-student/postdoctoral-fellow research mentors of undergraduate participants.

*Neuroscience Training Program*: Minority Affairs Committee (2001-2010), Steering Committee (2007-2010; 2015-2017), Awards Committee (2010-2016), Diversity Enhancement Committee (2019-present; interim Chair, 2022-present), ad hoc working group on Equity and Diversity (2020-2021)

*Dept. of Psychiatry*: Oversight Committee (oversight of all faculty mentoring and promotion; 2018-present)

*Neurobiology Major*: Member of Program Committee that was responsible for the creation, and subsequently the oversight, of this undergraduate major (2014-2019)

*University-wide*: Office of the Vice Chancellor for Research and Graduate Education review committee for Wisconsin National Primate Research Center (Chair 2019); 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)

Jason Samaha, PhD in Psychology (2018)  
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)

Qing Yu, PhD (2016-2020)  
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 Feredoes, PhD (2005-2007)

## PUBLICATIONS

### Refereed papers

111. Samaha, J., LaRocque, J.J., & Postle, B.R. (in press). Spontaneous alpha-band amplitude predicts subjective visibility but not discrimination accuracy during high-level perception. *Consciousness & Cognition*.
110. Shan, J. and Postle, B.R. (in press). The influence of active removal from working memory on serial dependence. *Journal of Cognition*.
109. Pietrelli, M., Samaha, J., and Postle, B.R. (in press). Spectral distribution dynamics across different attentional priority states. *Journal of Neuroscience*.

108. Teng, C. and Postle, B.R. (2021). Understanding occipital and parietal contributions to visual working memory: Commentary on Xu (2020). *Visual Cognition*, **29**, 401–408. <https://doi.org/10.1080/13506285.2021.1883171> PMC8323545
107. Yu, Q., and Postle, B.R. (2021). The neural codes underlying internally generated representations in visual working memory. *Journal of Cognitive Neuroscience*, **33**, 1142–1157. [https://doi.org/10.1162/jocn\\_a\\_01702](https://doi.org/10.1162/jocn_a_01702) PMID33656396
106. Teng, C. and Postle, B.R. (2021). Spatial specificity of feature-based interaction between working memory and visual processing. *Journal of Experimental Psychology: Human Perception and Performance*, **47**, 495–507. <https://doi.org/10.1037/xhp0000899> PMC8559890
105. Sheldon, A.D., Saad, E., Sahan, M.I., Meyering, E., Starrett, M.J., LaRocque, J.J., Rose, N.S., and Postle, B.R. (2021). Attention biases competition for visual representation via enhancement of targets and inhibition of nontargets. *Journal of Cognitive Neuroscience*, **33**, 739–755. PMC8354683
104. Fulvio, J.M., Akinola, I., and Postle, B.R. (2021). Gender (im)balance in citation practices in cognitive neuroscience. *Journal of Cognitive Neuroscience*, **33**, 3–7. [https://doi.org/10.1162/jocn\\_a\\_01643](https://doi.org/10.1162/jocn_a_01643). PMID33078992
103. Postle, B.R. and Yu, Q. (2020). Neuroimaging and the localization of function in visual cognition. *Visual Cognition*. **28**, 447–452. <https://doi.org/10.1080/13506285.2020.1777237> PMC201922
102. Cai, Y., Fulvio, J., Yu, Q., Sheldon, A.S., and Postle, B.R. (2020). The role of location-context binding in nonspatial visual working memory. *eNeuro*, **7**, ENEURO.0430-20.2020 1–14. <https://doi.org/10.1523/ENEURO.0430-20.2020> PMC7773890
101. Yu, Q., Panichello, M.F., Cai, Y., Postle, B.R., and Buschman, T.J. (2020). Delay-period activity in frontal, parietal, and occipital cortex tracks noise and biases in visual working memory. *PLoS Biology*, **18**: e3000854. <https://doi.org/10.1371/journal.pbio.3000854> PMC7500688
100. \*Yu, Q., \*Teng, C., and Postle, B.R. (2020). Different states of priority recruit different neural representations in visual working memory. *PLoS Biology*, **18**: e3000769. <https://doi.org/10.1371/journal.pbio.3000769> PMC7351225
99. \*Sahan, M.I., \*Sheldon, A.D., and Postle, B.R. (2020). The neural consequences of attentional prioritization of internal representations in visual working memory. *Journal of Cognitive Neuroscience*, **32**, 917–944. [doi.org/10.1162/jocn\\_a\\_01517](https://doi.org/10.1162/jocn_a_01517) PMC7646515
98. Lapate, R., Samaha, J., Rokers, B., Postle, B.R., Davidson, R.J. (2020). Perceptual metacognition of human faces is causally supported by function of the lateral prefrontal cortex. *Communications Biology*, **3**, 360. [doi.org/10.1038/s42003-020-1049-3](https://doi.org/10.1038/s42003-020-1049-3) PMC5725229
97. Wan, Q., Cai, Y., Samaha, J., Postle, B.R. (2020). Tracking stimulus representation across a 2-back visual working memory task. *Royal Society Open Science*, **7**, 190228. [doi.org/10.1098/rsos.190228](https://doi.org/10.1098/rsos.190228). PMC7481691
96. Fulvio, J.M. and Postle, B.R. (2020). Cognitive control, not time, determines the status of items in working memory. *Journal of Cognition*, **3**, 1–8. [doi.org/10.5334/joc.98](https://doi.org/10.5334/joc.98). PMC7147683
95. Lee, M., Baird, B., Gosseries, O., Nieminen, J., Boly, M., Postle, B.R., Tononi, G., and Lee, S-W. (2019). Connectivity differences between consciousness and unconsciousness in non-rapid eye movement sleep: a TMS–EEG study. *Scientific Reports*, **9**, 5175. PMC6435892
94. Samaha, J., Switsky, M., and Postle, B.R. (2019). Confidence boosts serial dependence in orientation estimation. *Journal of Vision*, **19**, 25, 1–13, <https://doi.org/10.1167/19.4.25>. PMC6690400
93. Cai, Y., Yu, Q., and Postle, B.R. (2019). Overlapping and Distinct Contributions of Stimulus Location and of Spatial Context to Nonspatial Visual Short-Term Memory. *Journal of Neurophysiology*, **121**, 1222–1231. PMC6485733

92. Samaha, J., Boutonnet, B., Postle, B.R., and Lupyan, G. (2018). Effects of meaningfulness on perception: Alpha-band oscillations carry perceptual expectations and influence early visual responses. *Scientific Reports*, **8**, 6606. PMC5920106
91. \*Gosseries, O., \*Yu, Q., LaRocque, J.J., Starrett, M.J., Rose, N., Cowan, N., and Postle, B.R. (2018). Parieto-occipital interactions underlying control- and representation-related processes in working memory for nonspatial visual features. *The Journal of Neuroscience*, **38**, 4357-4366. PMC5932644
90. Lapate, R.C., Samaha, J., Rokers, B., Hamzah, H., Postle, B.R., and Davidson, R.J. (2017). Inhibition of lateral prefrontal cortex produces emotionally biased first impressions: A TMS/EEG study. *Psychological Science*, **28**, 942-953. PMC5725229
89. Boly, M., Massimini, M., Tsuchiya, N., Postle, B.R., Koch, C., and Tononi, G. (2017). Are the neural correlates of consciousness in the front or in the back of the cerebral cortex? Clinical and neuroimaging evidence. *The Journal of Neuroscience*, **37**, 9603-9613. PMC5628406
88. Samaha, J., Postle, B.R. (2017). Correlated individual differences suggest a common mechanism underlying metacognition in visual perception and visual short-term memory. *Proceedings of the Royal Society B*, **284**:20172085. PMC5719179
87. Siclari, F., Baird, B., Perogamvros, L., Bernardi, G., LaRocque, J.J., Riedner, B., Boly, M., Postle, B.R., and Tononi, G. (2017). The neural correlates of dreaming. *Nature Neuroscience*, **20**, 872–878. PMC5462120
86. Samaha, J. Iemi, L., Postle, B.R. (2017). Prestimulus alpha-band power biases visual discrimination confidence, but not accuracy. *Consciousness and Cognition*, **54**, 47-55. PMC5561529
85. Emrich, S.M., Johnson, J.S., Sutterer, D.W., and Postle, B.R. (2017). Comparing the effects of 10-Hz rTMS on tasks of visual short-term memory and attention. *Journal of Cognitive Neuroscience*, **29**, 286-297. PMC5199610
84. LaRocque, J.J., Riggall, A.C., Emrich, S.M., and Postle, B.R. (2017). Within-category decoding of information in different attentional states in short-term memory. *Cerebral Cortex*, **17**, 4881-4890. PMC6059111
83. Samaha, J., Gosseries, O., and Postle, B.R. (2017). Distinct oscillatory frequencies underlie excitability of human occipital and parietal cortex. *The Journal of Neuroscience*, **37**, 2824-2833. PMC5221753
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. PMC5221753
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., Cimaroli, 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
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(\* = these authors contributed equally)

#### **In-principle accepted preregistered designs (a.k.a. Stage I Registered Report)**

2. Shan, J. and Postle, B.R. (September 2021). The neural mechanisms of active removal from working memory. *PLoS Biology*.
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#### **Non-refereed chapters, commentaries, and journal articles**

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22. Postle, B.R. and Oberauer, K. (in press). Working memory: Theoretical, computational, and neural considerations. In M.J. Kahana and A.D. Wagner (Eds.) *The Oxford Handbook of Human Memory*. Oxford University Press (Oxford, U.K.).
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### **Textbook**

Postle, B.R. (2020). *Essentials of Cognitive Neuroscience* (2<sup>nd</sup> edition). John Wiley & Sons, Hoboken, NJ. (1<sup>st</sup> edition 2015)

### **Abstracts (past three years)**

178. Teng, C., Fulvio, J.M., Jiang, J., and Postle, B.R. (2022). Flexible control of the interaction between working memory and perception. Cognitive Neuroscience Society, April 2022, San Francisco, CA.
180. Ding, Y, C., Postle, B.R., and van Ede, F. (2022). EEG and direction-of-gaze correlates of goal-directed vs. stimulus-driven selection in working memory. Cognitive Neuroscience Society, April 2022, San Francisco, CA.
179. Fulvio, J.M., Yu, and Postle, B.R. (2022). Strategic control of location and ordinal context in visual working memory. Cognitive Neuroscience Society, April 2022, San Francisco, CA.
178. Teng, C., Fulvio, J.M. and Postle, B.R. (2021). Flexible top-down control in the interaction between working memory and perception. Society for Neuroscience, November 2021, virtual.
177. Cai, Y. and Postle, B.R. (2021). Varying demands on context binding affects lateralized working memory behavior, and bilateral EEG signals. Cognitive Neuroscience Society, March 2021, virtual.

176. Wan, Q., Menendez, J.A., & Postle, B.R. (2020). Understanding transformations between “decision-potent” and “decision-null” representations in visual working memory using demixed PCA. neuromatch 3.0, October 2020, virtual.
175. Teng, C., & Postle, B.R. (2020). Investigating spatial specificity in the interaction between working memory and visual perception. neuromatch 3.0, October 2020, virtual.
174. Shan, J., & Postle, B.R. (2020). The influence of active removal from working memory on serial dependence. neuromatch 3.0, October 2020, virtual.
173. Pietrelli, M., Samaha, J., & Postle, B.R. (2020). Is attention modulating alpha oscillatory activity focally for task-related locations or globally to also task-irrelevant locations? neuromatch 3.0, October 2020, virtual.
172. Fulvio, J.M., Akinnola, I., & Postle, B.R. (2020). Gender (im)balance in citation practices in cognitive neuroscience. neuromatch 3.0, October 2020, virtual.
171. Teng, C. and Postle, B.R. (2020). Spatial modulation of feature-based interaction between working memory and perception. Vision Sciences Society, May 2020, virtual.
170. Pietrelli, M., Samaha, J., and Postle, B.R. (2020). Are attention-related modulations of alpha-band dynamics local or global? Cognitive Neuroscience Society, March 2020, virtual.
169. Wan, Q., Cai, Y., Samaha, J., and Postle, B.R. (2020). Rotational remapping between “decision-potent” and “decision-null” representation in visual working memory. Cognitive Neuroscience Society, March 2020, virtual.
168. Shan, J. and Postle, B.R. (2020). Training attractor dynamics in visual working memory. Cognitive Neuroscience Society, March 2020, virtual.
167. Teng, C., Yu, Q., and Postle, B.R. (2020). Effects of attentional prioritization on the representation of content and context in visual working memory. Cognitive Neuroscience Society, March 2020, virtual.
166. Fulvio, J.M., Haegens, S., Rose, N.S., and Postle, B.R. (2020). Decomposition of EEG reveals a diversity of beta-band responses to a single pulse of TMS. Cognitive Neuroscience Society, March 2020, virtual.
165. Yu, Q., Panichello, M.F., Postle, B.R., and Buschman, T.J. (2020). Training attractor dynamics in visual working memory. Cognitive Neuroscience Society, March 2020, virtual.
164. Wan, Q., Cai, Y., Samaha, J., Rogers, T.T., and Postle, B.R. (2019). Rotational remapping as a candidate mechanism for priority-based recoding in visual working memory: Empirical and computational evidence. Society for Neuroscience, November 2019, Chicago, IL.
163. Yu, Q. and Postle, B.R. (2019). Prior knowledge shapes the neural dynamics of mnemonic and response-related representations in visual working memory. Society for Neuroscience, November 2019, Chicago, IL.
162. Fulvio, J. and Postle, B.R. (2019). Representing location versus temporal context in visual working memory. Society for Neuroscience, November 2019, Chicago, IL.
161. Yu, Q. and Postle, B.R. (2019). Neural oscillatory processes underlying context binding in visual working memory. Vision Sciences Society, May 2019, St, Pete Beach, FL.
160. Yu, Q. and Postle, B.R. (2019). Neural processes underlying context binding in visual working memory. Context and Episodic Memory Symposium, May 2019, Philadelphia, PA.
159. Yu, Q., Panichello, M.F., Postle, B.R., and Buschman, T.J. (2019). Persistent neural activity in parietal cortex tracks attractor dynamics in visual working memory. Cognitive Neuroscience Society, March 2019, San Francisco, CA.

### INVITED LECTURES AND SYMPOSIA

- Medical College of Wisconsin, Neurology Grand Rounds (Presentation via Zoom). *September 2022*.
- University of California, San Francisco, Neuroscape (Presentation via Zoom). *September 2020*.

- University of Bielefeld (Germany), Center for Interdisciplinary Research (ZiF), *invited speaker at research workshop “Memory for flexible context-sensitive thought and action.” December 2019.*
- Royal Netherlands Academy of Arts and Sciences (KNAW) Colloquium (Amsterdam, Netherlands), *invited speaker at colloquium “New perspectives on visual working memory: function, content, control, capacity and architecture.” June 2019.*
- University of Ghent, Belgium. Department of Psychology. *June 2019.*
- University of Wisconsin, Milwaukee, *Keynote address at annual research symposium of Association for Graduate Students in Psychology. April 2019*
- Society for Neuroscience 2018 Annual Meeting (San Diego, CA), *organizer and chair of nanosymposium “Human Cognition and Behavior: Working Memory I.” November 2018*
- Memory Disorders Research Society, Annual Meeting. *Organizer of membership-elected symposium “Memory and Consciousness” featuring Simona Ghetti (UC Davis), Elisa Ciaramelli (U. di Bologna), Adrian Owen (Western U.), and Earl Miller (MIT) September 2018*
- 11<sup>th</sup> Federation of European Neuroscience Societies (FENS) Forum of Neuroscience (Berlin, Germany), *invited speaker for symposium “Prefrontal mechanisms underlying working memory.” July 2018*
- Neuroscience School of Advanced Studies (Venice, Italy), *guest faculty for Advanced Course on “Consciousness: From Theory to Practice”. June-July 2018*
- Cognitive Neuroscience Society, 2018 Annual Meeting (Boston, MA). *Organizer of Symposium “The Next 25 Years of Cognitive Neuroscience: Opportunities and Challenges” featuring Timothy Bussey (Western U.), Dean Buonomano (UCLA), Dora Hermes (Stanford U.), Steven Chang (Yale U.), and Nina Dronkers (UC Davis). March 2018*
- University of Iowa, Iowa Neuroscience Institute. *January 2018*
- University of Maryland, Program in Neuroscience. *November 2017*
- Baylor College of Medicine (presentation via skype). *November 2017*
- 13th International Conference for Cognitive Neuroscience (ICON; Amsterdam, the Netherlands). *Invited speaker for symposium “Is visual cortex relevant for visual working memory?” August 2017*
- Neuroscience School of Advanced Studies (Siena, Italy). *Guest faculty for Advanced Course on “Sleep and Cognition.” July 2017*
- NIH Multimodal TMS Meeting Series, NIH campus, Bethesda, MD. *June 2017*
- “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,” *invited presentation, 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*
- Gordon Research Conference on “Neurobiology of Cognition.” *July 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, 30<sup>th</sup> 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 2014*
    - 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. March, 2014.*
    - University of Missouri, Dept. of Psychology. *March 2014*
    - Charles River Association for Memory, hosted by the Boston University Center for Memory and Brain. *March*
    - 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 (U. Maryland-College Park), Christos Constantinides (Wake Forest School of Medicine), Torkel Klingberg (Karolinska Institute), and Bornali Kundu (U. 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). *November 2012*
              - “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*
- 5<sup>th</sup> 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”. (U. 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 (U. 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 “1<sup>st</sup> 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, (U. Minnesota), Earl Miller (MIT), Yuko Munakata (U. Colorado), Adrian Owen (MRC Cognition and Brain Sciences Unit), Randy O'Reilly (U. Colorado), *and* myself. *May 2001*
- 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, Neuroscience Training Program 666: “Neuroscience of Consciousness and its Disorders” (*grad. Seminar; teach lecture on “Consciousness and Memory”*) *Spring 2021, 2022*

University of Wisconsin–Madison, Neuroscience Training Program 701: “Experimental Design and Statistical Methodology ” (*grad. Seminar; teach sessions on “Beyond classical hypothesis testing” and “Methods in neuroimaging analysis”*) *Summer 2019, 2020, 2021*

University of Wisconsin–Madison, Neuroscience Training Program 900: “Seminar; Fall 2018 Subgroup #2 ‘Visual Working Memory’” (*grad. seminar*) *Fall 2018*

University of Wisconsin–Madison, Psychology 100: "Exploring Psychology" (*undergrad. seminar*) *Spring 2018*

University of Wisconsin–Madison, Psychology 720: "Essentials of Cognitive Neuroscience " (*grad. lecture*) *Fall 2016\*, Fall 2018, Fall 2020. \*Course # in Fall 2016 was 711*

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, Fall 2017, Fall 2019, Fall 2021*

*\*Beginning Fall 2017, this teaching assignment also includes undergrad. honors seminar (formerly Psychology 481)*

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 Profs. Tom Yin and Xin Huang 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; Executive Control; Spring 2015, Spring 2020.*

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*