

# J. Benjamin Hutchinson

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## Academic Positions

2017- Assistant Professor of Psychology, Northeastern University

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## Education and Training

2011-Present Postdoctoral Associate, Princeton University, Neuroscience Institute  
NIH National Research Service Award (2011-2014)  
Intel Labs/Princeton Neuroscience Partnership (2015-2016)  
Advisor: Nicholas Turk-Browne

2006-2011 PhD, Stanford University, Psychology (Neuroscience Area)  
Advisor: Anthony Wagner

2000-2004 BA, University of Pennsylvania, Psychology  
Magna Cum Laude, Phi Beta Kappa, Dean's List (2001-2004)  
Advisor: John Trueswell

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## Publications

Fan J, Hutchinson JB, Turk-Browne NB (2016). When past is present: substitutions of long-term memory for sensory evidence in perceptual judgments. *Journal of Vision*, 16, 1-12.

Hutchinson JB, Pak SS, Turk-Browne NB (2016). Biased competition during long-term memory formation. *Journal of Cognitive Neuroscience*, 28, 187-197.

Gonzalez A, Hutchinson JB, Uncapher MR, Chen J, LaRocque KF, Foster BL, Rangarajan V, Parvizi J, Wagner AD (2015). Electrocorticography reveals the temporal dynamics of posterior parietal cortical activity during recognition memory decisions. *Proceedings of the National Academy of Sciences*, 112, 11066-11071.

Hutchinson JB, Uncapher MR, Wagner AD (2015). Increased functional connectivity between dorsal posterior parietal and ventral occipitotemporal cortex during uncertain memory decisions. *Neurobiology of Learning and Memory*, 117, 71-83.

Farah MJ, Hutchinson JB, Phelps EA, Wagner AD (2014). Functional MRI-based lie detection: scientific and societal challenges. *Nature Reviews Neuroscience*, 15, 123-131.

Hutchinson JB, Uncapher MR, Weiner KS, Bressler DW, Silver MA, Preston AR, Wagner AD (2014). Functional heterogeneity in posterior parietal cortex across attention and episodic memory retrieval. *Cerebral Cortex*, 24, 49-66.

Hutchinson JB, Turk-Browne NB (2012). Memory-guided attention: control from multiple memory systems. *Trends in Cognitive Sciences*, 16, 576-579.

Uncapher MR, Hutchinson JB, Wagner AD (2011). Dissociable effects of top-down and bottom-up attention during episodic encoding. *Journal of Neuroscience*, 31, 12593-12603.

Adamson MM, Hutchinson JB, Shelton A, Wagner AD, Taylor JL (2011) Reduced hippocampal activity during encoding in cognitively normal adults carrying the APOE  $\epsilon$ 4 allele. *Neuropsychologia*, 49, 2448-2455.

Uncapher MR, Hutchinson JB, Wagner AD (2010). A roadmap to brain mapping: toward a functional map of human parietal cortex. *Neuron*, 67, 5-8.

Preston AR, Bornstein AM, Hutchinson JB, Gaare ME, Glover GH, Wagner AD (2010). High-resolution fMRI of content-sensitive subsequent memory responses in human medial temporal lobe. *Journal of Cognitive Neuroscience*, 22, 156-173.

Hutchinson JB, Uncapher MR, Wagner AD (2009). Posterior parietal cortex and episodic retrieval: convergent and divergent effects of attention and memory. *Learning and Memory*, 16, 343-356.

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## Conference Presentations

Hutchinson JB, Wang, Y, Turk-Browne NB (May 2016). Overlap and separation of remembered and perceived visual information in the human medial temporal lobe. *Vision Sciences Society*, St. Pete Beach, FL.

Hutchinson JB, Turk-Browne NB (Oct 2015). Object-based competition during long-term memory encoding. *Society for Neuroscience*, Chicago, IL.

Hutchinson JB, Wang Y, Turk-Browne NB (Nov 2014). Decoding the locus of attention from the full correlation matrix of the human brain. *Society for Neuroscience*, Washington, DC.

Gonzalez A, Hutchinson JB, LaRocque KF, Chen J, Foster BL, Rangarajan V, Parvizi J, Wagner AD (Nov 2014). Intracranial evidence of parietal cortex involvement in the encoding of episodic memories. *Society for Neuroscience*, Washington, DC.

Hutchinson JB, Turk-Browne NB (May 2014). Guidance of object-based attention from neural signatures of memory. *Vision Sciences Society*, St. Pete Beach, FL.

Pak SS, Hutchinson JB, Turk-Browne NB (May 2014). Intuitive statistics from graphical representations of data. *Vision Sciences Society*, St. Pete Beach, FL.

Fan JE, Hutchinson JB, Turk-Browne, NB (Nov 2013). Incidental expression of visual long-term memory in online perception. *Psychonomic Society*, Toronto, ON.

Hutchinson JB, Turk-Browne, NB (Nov 2013). Interacting signals of memory during competitive encoding. *Society for Neuroscience*, San Diego, CA.

Hutchinson JB, Pak SS, Turk-Browne NB (Jun 2013). Competitive dynamics of the encoding of novel information. *Manhattan Area Memory Meeting*, New York, NY.

Gonzalez A, Hutchinson JB, Uncapher MR, Chen J, LaRocque KF, Foster BL, Rangarajan V, Parvizi J, Wagner AD (Apr 2013). Oscillatory dynamics in the human parietal cortex during recognition memory decisions. *Cognitive Neuroscience Society*, San Francisco, CA.

Hutchinson JB, Pak SS, Turk-Browne NB (Oct 2012). Memory-guided attention: how prior experience influences encoding of novel information. *Society for Neuroscience*, New Orleans, LA.

Gonzalez-Barbosa A, Hutchinson JB, Uncapher MR, Parvizi J, Wagner AD (Oct 2012). Decoding of recognition memory states from ECoG local field potentials in human parietal cortex. *Society for Neuroscience*, New Orleans, LA.

Hutchinson JB, Pak SS, Turk-Browne NB (May 2012). When old meets new: repetition enhances encoding of competing novel items. *Vision Sciences Society*, Naples, FL.

Uncapher MR, DuBrow S, Hutchinson JB, Wagner AD (Nov 2011). Temporal interplay of attention and memory during associative retrieval. *Society for Neuroscience*, Washington DC.

Uncapher MR, DuBrow S, Hutchinson JB, Wagner AD (Nov 2011). Associative retrieval exhibits a dynamic temporal interplay between attention and memory. *Bay Area Memory Meeting*, Davis, CA.

Hutchinson JB, Uncapher MR, Wagner AD (Aug 2010). Effects of decision framing on episodic retrieval. *Bay Area Memory Meeting*, Stanford, CA.

Hutchinson JB, Uncapher MR, Wagner AD (Apr 2010). Parietal contributions to episodic retrieval: effects of memory and decision criteria. *Cognitive Neuroscience Society*, Montreal, Canada.

Uncapher MR, DuBrow S, Hutchinson JB, Wagner AD (Apr 2010). Remembering to attend: separating memory and attention signals in the posterior parietal cortex. *Cognitive Neuroscience Society*, Montreal, Canada.

Hutchinson JB, Uncapher MR, Wagner AD (Mar 2009). Contributions of parietal cortex to attention and memory: divergent processes of visual attention and episodic retrieval. *Cognitive Neuroscience Society*, San Francisco, CA.

Hutchinson JB, Uncapher MR, Bressler DW, Silver MA, Wagner AD (Apr 2008). Episodic memory retrieval and parietal cortex: relating memory to topographic maps of visuo-spatial attention and reflexive orienting. *Society for Neuroscience*, Washington DC.

Uncapher MR, Hutchinson JB, Wagner AD (Apr 2008). Attentional capture increases mnemonic capture: episodic encoding is modulated by the ventral parietal attention system. *Society for Neuroscience*, Washington, DC.

Hutchinson JB, Uncapher MR, Bressler DW, Silver MA, Wagner AD (Aug 2008). Parietal contributions to episodic memory retrieval and visuo-spatial attention. *Bay Area Memory Meeting*, Davis, CA.

Uncapher MR, Hutchinson JB, Wagner AD (Aug 2008). From negative to positive: harnessing the ventral attentional system to promote rather than detract from episodic encoding. *Bay Area Memory Meeting*, Davis, CA.

Hutchinson JB, Cristo Y, Preston AR, Wagner AD (Apr 2008). Frontal and parietal correlates of graded recollection during episodic retrieval. *Cognitive Neuroscience Society*, San Francisco, CA.

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### Invited Talks

Ebbinghaus Empire Meeting, University of Toronto, November, 2014  
Cognitive Research Seminar, Princeton University, October, 2011  
Friday Cognitive Seminar, Stanford University, February, 2011

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### Other Research Experience

2005-2006	Lab Manager, Stanford University, Psychology Principal Investigator: Anthony Wagner
2004-2005	Research Assistant, Stanford University, Psychology Principal Investigator: John Gabrieli

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### Teaching Experience

2009	Introduction to Cognitive Neuroscience, Teaching Assistant
2008	Introduction to Learning and Memory, Teaching Assistant
2008	Introductory Statistics, Teaching Assistant
2008	MATLAB and Psychtoolbox for the Behavioral Sciences, Co-Instructor
2008	Introduction to Cognitive and Comparative Neuroscience, Co-Instructor
2007	Cellular Neuroscience, Teaching Assistant

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### Mentoring Experience

2015	Rachel Klebanov (Princeton undergrad)
2013	Annie Chen (CMU undergrad)
2013	Max Luo (area high school student)
2011-2015	Sarah Pak (Princeton undergrad)
2010	Tim Jausovec (Stanford undergrad)
2009	Nandini Datta (UCSD undergrad)
2007-2008	Valerie Ross (Stanford undergrad)
2007	Michael King (Stanford undergrad)
2007	Maria Corona (CSU undergrad)
2007	Yudy Cristo (Leadership Alliance Research Mentor program)

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## Ad Hoc Reviewing

*Acta Psychologica • Attention, Perception and Psychophysics • Biological Psychology • Brain Research • Cerebral Cortex • Cognitive, Affective, and Behavioral Neuroscience • Cognitive Neuroscience • Cortex • Frontiers in Human Neuroscience • Human Brain Mapping • Journal of Cognitive Neuroscience • Journal of Experimental Psychology: Human Perception and Performance • Journal of Experimental Psychology: Learning, Memory, and Cognition • Journal of Neuroscience • Nature Reviews Neuroscience • Neurobiology of Aging • NeuroImage • Neuropsychologia • PLOS Biology • Scientific Reports • Visual Cognition*