

# JONATHAN ISAAC FLOMBAUM

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Psychological & Brain Sciences  
The Johns Hopkins University  
3400 N. Charles Street  
Baltimore, MD 21218

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## Academic Appointments

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2009	Johns Hopkins University	Assistant Professor, Department of Psychological & Brain Sciences
2013	Johns Hopkins University	Secondary appointment, Department of Cognitive Science

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## Education

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2008	Yale University	Ph.D. in cognitive psychology (Advisor: Brian Scholl)
2006	Yale University	M.S. & MPhil in cognitive psychology
2002	Harvard University	A.B. magna cum laude with highest honors in psychology and biology

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## Academic Awards and Honors

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*Alumni Association Undergraduate Excellence in Teaching Award* (2015)  
Johns Hopkins University, <http://krieger.jhu.edu/teachingaward/>

*William Kessen Teaching Award* (2008)  
Yale University

*Individual National Research Service Award Predoctoral Fellowship* (2006-2008)  
National Institutes of Health

*Individual Graduate Research Fellowship* (2003-2006)  
National Science Foundation

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## Grant Support

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**Ongoing** (August 1, 2015 – July 30, 2018).  
*Correspondence Mechanisms in Visual Cognition*  
National Science Foundation, BCS – 1534568, \$286,782

**Completed** (July 2013-July 2015)  
*Spatial Localization Through Learning: An Information Theoretic Approach*  
JHU Science of Learning Seed Grant, \$120,000

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## Research Interests

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*General Areas:* visual cognition, attention, and memory

*Methods:* behavioral experiments, psychophysics, eye-tracking, and computational modelling

My primary research interest is in characterizing correspondence and data assignment computations in vision: how the visual system assigns token identity to perceived objects over time (correspondence), and how it assigns inputs to potential sources (data assignment). My lab investigates these computations in a variety of contexts including motion perception, object tracking, color perception, and visual memory. We use multiple methods, including psychophysics, behavioral experiments, computational modelling, eye-tracking, and testing of patients with brain damage.

## **Publications**

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### **Refereed articles, published or in-press**

1. Gross, S. J., & Flombaum, J. I. (in press). Does Perceptual Consciousness Overflow Cognitive Access? The Challenge from Probabilistic, Hierarchical Processes. *Mind & Language*.
2. Schurgin, M. W., & Flombaum, J. I. (in press). Visual long-term memory has weaker fidelity than working memory. *Visual Cognition*.
3. Marchette, S. A., Sever, M. W., Flombaum, J. I., & Shelton, A. L. (in press). Individual differences in representational precision predict spatial working memory span. *Spatial Cognition & Computation*.
4. Ma, Z., McCloskey, M., & Flombaum, J. I. (2015). A deficit perceiving slow motion following brain damage and a parallel deficit induced by crowding. *Journal of Experimental Psychology: Human Perception and Performance*, 41, 1365.
5. Bae, G. Y., Olkkonen, M., Allred, S. R., & Flombaum, J. I. (2015) Why some colors appear more memorable than others. A model of categories and particulars in the contents of color working memory. *Journal of Experimental Psychology: General*, 144, 744-763.
6. Zhong, S-H., Ma, Z., Wilson, C., Liu, Y., & Flombaum, J. I. (2014). Why don't people seem to extrapolate trajectories during multiple object tracking? A computational investigation. *Journal of Vision*, 14, 1-30.
7. Allred, S. A., & Flombaum, J. I. (2014). Relating color perception and color working memory. *Trends in Cognitive Sciences*, 18:11, 562-565.
8. Bae, G. Y., Olkkonen, M., Allred, S. R., Wilson, C., & Flombaum, J. I. (2014). Stimulus-specific variability in color working memory with delayed estimation. *Journal of Vision*, 14, 1-23.
9. Schurgin, M. W., & Flombaum, J. I. (2014). How undistorted spatial memories can produce distorted responses. *Attention, Perception, & Psychophysics*, 76, 1371-1380.
10. Ma, Z., Niño, J., Hock, H., McCloskey, M., & Flombaum, J. I. (2013). A taxonomy of directional motion judgment based on informational content: Evidence from a deficit following bilateral parietal brain damage. *Visual Cognition*, 21, 697-701.
11. Schurgin, M. W., Reagh, Z. M., Yassa, M. A., & Flombaum, J. I. (2013). Spatiotemporal continuity alters long-term memory representation of objects. *Visual Cognition*, 21, 715-718.
12. Bae, G. Y., & Flombaum, J. I. (2013) Two items remembered as precisely as one. How integral features can improve visual working memory. *Psychological Science*, 24, 2038-2047.
13. Ma, Z., & Flombaum, J. I. (2013). Off to a bad start: Uncertainty about the presence of targets at the onset of multiple object tracking. *Journal of Experimental Psychology: Human Perception & Performance*, 39, 1421-1432.
14. Odic, D., Roth, O., & Flombaum, J. I. (2012). The relationship between object files and apparent motion. *Visual Cognition*, 20, 1052-1081.
15. Levillain, F., & Flombaum, J. I. (2012). Correspondence problems cause repositioning costs in visual working memory. *Visual Cognition*, 20, 669-695.
16. Bae, G. Y., & Flombaum, J. I. (2012). Close encounters of the distracting kind: Explaining the cause of visual tracking errors. *Attention, Perception, & Psychophysics*, 74, 703-715.
17. Bae, G. Y., & Flombaum, J. I. (2011). Amodal causal capture in the tunnel effect. *Perception*, 40, 74-90.
18. Yi, D. J., Turk-Browne, N. B., Flombaum, J. I., Kim, M., Scholl, B. J., & Chun, M. M. (2008). Spatiotemporal object continuity in human ventral visual cortex. *Proceedings of the National Academy of Sciences*, 105, 8840-8845.

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19. Flombaum, J. I., Scholl, B. J., & Pylyshyn, Z. W. (2008). Attentional resources in visual tracking through occlusion: the high-beams effect. *Cognition*, *10*, 904-93.
20. Flombaum, J. I., & Scholl, B. J. (2006). A temporal same-object advantage in the tunnel effect: facilitated change-detection for persisting objects. *Journal of Experimental Psychology: Human Perception and Performance*, *32*, 840-853.
21. Flombaum, J. I., & Santos, L. R. (2005). Rhesus monkeys attribute perceptions to others. *Current Biology*, *15*, 1-20.
22. Flombaum, J. I., Junge, J. A., & Hauser, M. D. (2005). Rhesus monkeys (*Macaca mulatta*) spontaneously compute addition operations over large numbers. *Cognition*, *97*, 315-325.
23. Fan, J., McCandliss, B. D., Fossella, J., Flombaum, J. I., & Posner, M. I. (2005). The activation of attentional networks. *NeuroImage*, *26*, 471-479.
24. Flombaum, J. I., Kundey, S., Santos, L. R., & Scholl, B. J. (2004). Dynamic object individuation in rhesus macaques: a study of the tunnel effect. *Psychological Science*, *15*, 795-800.
25. Fan, J., Flombaum, J. I., McCandliss, B. D., Thomas, K. M., & Posner, M. I. (2003). Cognitive and brain consequences of conflict. *NeuroImage*, *18*, 42-57.
26. Flombaum, J. I., Santos, L. R., & Hauser, M. D. (2002). Neuroecology and psychological modularity. *Trends in Cognitive Sciences*, *6*, 106-108.
27. Ghazanfar, A. A., Flombaum, J. I., Miller, C. T., & Hauser, M. D. (2001). The units of perception in the antiphonal calling behavior of cotton-top tamarins (*Saguinus oedipus*): playback experiments with long-calls. *Journal of Comparative Physiology A*, *187*, 27-35.

### **In Preparation (manuscript available)**

- Bae, G. Y., Wilson, C., Holland, P. C., & Flombaum, J. I. (In prep). A formal model of correspondence computations in spatial working memory.
- Zhong, S-H, Ma, Z., Wilson, C. W., & Flombaum, J. I. (In prep). An eye-gaze dependent model of multiple object tracking with neither fixed nor flexible resources.
- Menendez, J., Bae, G. Y., Wilson, C. W., & Flombaum, J. I. (In prep). Explaining configurations in spatial working memory in terms of expectations about motion and correspondence.

### **Chapters**

- Gross, S., Chaisilprungraung, P., Kaplan, E., Menendez, J., & Flombaum, J. I. (In Press). Problems for the purported cognitive penetration of perceptual color experience and Macpherson's proposed mechanism. In (E. Machery & J. Prinz Eds.), *Perception & Concepts (Baltic International Yearbook of Cognition, Logic, and Communication, Vol. 9)*. New Prairie Press.
- Scholl, B. J., & Flombaum, J. I. (2010). Object persistence. In B. Goldstein (Ed.), *Encyclopedia of Perception*, Volume 2 (pp. 653 - 657). Thousand Oaks, CA: Sage Publications.
- Flombaum, J. I., Scholl, B. J., & Santos, L. R. (2009). Spatiotemporal priority: the engine that drives object persistence. In B. M. Hood & L. R. Santos (Eds.) *The Origins of Object Knowledge: The Yale Symposium on the Origins of Object & Number Representation*. Oxford: Oxford University Press.
- Santos, L. R., Flombaum, J. I., & Phillips, W. (2006). The evolution of human mind reading: How nonhuman primates can inform social cognitive neuroscience. In S. M. Platek, J. P. Keenan, & T. K. Shakelford (Eds.) *Evolutionary Cognitive Neuroscience* (pp. 433-456). Cambridge, MA: MIT Press.
- Flombaum, J. I. (2007). A review of "Thinking with Animals." *Quarterly Review of Biology*, *82*, 308-309.

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## Conference Presentations

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- Yang, F. & Flombaum, J. I. (2015). Statistical learning without attention. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL, May 2015.
- Flombaum, J. I., Jedynek, B., Zhong, S-H., & Jiang, H. (2015). The microgenesis of information acquisition in visual 'popout.' Talk presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL, May 2015.
- Ma, Z., Zhong, S-H., Wilson, C., & Flombaum, J. I. (2015). Multiple object tracking explained with neither fixed nor flexible resources. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL, May 2015.
- Schurgin, M. W., & Flombaum, J. I. (2015). Invariant object recognition enhanced by object persistence. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL, May 2015.
- Allred, S., Bae, G-Y., Olkkonen, M., & Flombaum, J. I. (2015) A new model for the contents of working memory. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL, May 2015.
- Bae, G-Y., Olkkonen, M.A., Allred, S., Wilson, C., & Flombaum, J.I. (2014). Models of color working memory with color perception as a variable. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL, May 2014.
- Im, H-Y., Zhong, S-H., Jedynek, B., Feigenson, L., & Flombaum, J. I. (2014). Entropy pursuit as a model of efficient visual search. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL, May 2014.
- Ma, Z., McCloskey, M., & Flombaum, J.I. (2014). Differentiating between object-dependent and transient-dependent motion through crowding. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL, May 2014.
- Schurgin, M., & Flombaum, J.I. (2014). Building tolerant long-term memories through (object) persistence. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL, May 2014.
- Yang, F., & Flombaum, J.I. (2014). Ponzo inducers in working memory produce illusory line perception. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL, May 2014.
- Zhong, S-H., Ma, Z., Wilson, C., & Flombaum, J.I. (2014). Kalman filter models of multiple object tracking within an attentional window. Talk presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL, May 2014.
- Menendez, J., Bae, G. Y., Wilson, C. W., & Flombaum, J. I. (2013). A computational basis for configuration effects in spatial working memory. Poster presented at the annual meeting on *Object Perception, Attention, and Memory*, Toronto, CA, November 2013.
- Schurgin, M. W., Reagh, Z. M., Yassa, M. A., & Flombaum, J. I. (2013). Spatiotemporal continuity alters long-term memory representation of objects. Talk presented at the annual meeting on *Object Perception, Attention, and Memory*, Toronto, CA, November 2013. *\*Best talk award.*
- Ma, Z., Niño, J., Hock, H., McCloskey, M., & Flombaum, J. I. (2013). A taxonomy of directional motion judgment based on informational content: Evidence from a deficit following bilateral parietal brain damage. Talk presented at the annual meeting on *Object Perception, Attention, and Memory*, Toronto, CA, November 2013. *\*Travel Award*
- Bae, G. Y., & Flombaum, J. I. (2013). Vernier acuity as an angular computation: It's actually unaffected by distance. Poster to be presented at the annual meeting on *Object Perception, Attention, and Memory*, Toronto, CA, November 2013.
- Schurgin, M. W., & Flombaum, J. I., (2013). Interactions between perception, fixation, and attention determine the endpoint of an action. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, FL, May 2013.
- Bae, G. Y., Wilson, C. W., & Flombaum, J. I. (2013). Variability in color working memory precision reflects inherent stimulus properties. Talk presented at the annual meeting of the *Vision Sciences Society*, Naples, FL, May 2013.
- Ma, Z., Nino, J., Flombaum, J. I., & McCloskey, M. (2013). Shared mechanisms for representing the sides of the visual world and the sides of objects. Evidence from a deficit following bilateral parietal brain damage. Poster presented at the annual meeting of the *Vision Science Society*, Naples, FL, May 2013.
- Flombaum, J. I., Zhong, S. H., Ma, Z., Wilson, C. W., & Liu, Y. (2013). What is the marginal advantage of extrapolating during multiple object tracking? Insights from a Kalman filter model. Talk presented at the annual meeting of the *Vision Sciences Society*, Naples, FL, May 2013.

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- Bae, G. Y., & Flombaum, J. I. (2012). Two items remembered as precisely as one. Talk presented at the annual meeting of the *Vision Sciences Society*, Naples, Florida, May 2012.
- Ma, Z., & Flombaum, J. I. (2012). Enumeration errors in multiple object tracking. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, Florida, May 2012.
- Levillain, F., & Flombaum, J. I. (2011). Repositioning costs in visual working memory for orientation but not color: Evidence for correspondence challenges. Poster presented at the annual meeting of *Object Perception, Attention, and Memory*, Seattle, Washington, November 2011.
- Roth, O., Odic, D., & Flombaum, J. I. (2011). The relationship between apparent motion and object files. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, Florida, May 2011.
- Levine, M., Bae, G. Y., & Flombaum, J. I. (2011). How the imprecision of spatial knowledge constrains multiple object tracking. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, Florida, May 2011.
- Bae, G. Y., & Flombaum, J. I. (2011). Close encounters of the distracting kind: Explaining the limits of visual object tracking. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, Florida, May 2011.
- Flombaum, J. I., & Bae, G. Y. (2011). Correspondence problems limit visual working memory. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, Florida, May 2011.
- Bae, G.-Y., & Flombaum, J. I. (2010). Invisible causal capture in the tunnel effect. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, Florida, May 2010.
- Flombaum, J. I. (2010). Tracking seven is not the same as tracking three: The roles of parallel and serial resources in object tracking. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, Florida, May 2010.
- Walsh, M. K., Gmeindl, L., Shelton, A. L., & Flombaum, J. I. (2010). Spatial working memory is limited by fixed resolution representations of location. Paper presented at the annual meeting of the *Vision Sciences Society*, Naples, Florida, May 2010.
- Flombaum, J. I., & Scholl, B. J. (2008). How does attention operate during multiple object tracking?: Evidence from the 'slot-machine' task for parallel access to target features. Paper presented at the annual meeting of the *Vision Sciences Society*, Naples, Florida, May 2008. [Abstract published in *Journal of Vision*, 8(6), 223a, <http://journalofvision.org/8/6/223/>.]
- Flombaum, J. I., & Scholl, B. J. (2007). Attending to moving vs. static stimuli: a surprising dissociation in multiple object tracking. Poster presented at the annual meeting of the *Vision Sciences Society*, Sarasota, Florida, May 2007. [Abstract published in *Journal of Vision*, 7(9), 894a, <http://journalofvision.org/7/9/894/>.]
- Flombaum, J. I., Scholl, B. J., & Pylyshyn, Z. W. (2006). "Attentional high-beams" in tracking through occlusion. Poster presented at the annual meeting of the *Vision Sciences Society*, Sarasota, Florida, May 2006. [Abstract published in *Journal of Vision*, 6(6), 765a, <http://www.journalofvision.org/6/6/765/>.]
- Shankar, M. U., Flombaum, J. I., & Scholl, B. J. (2006). The role of topological change in object persistence. Poster presented at the annual meeting of the *Vision Sciences Society*, Sarasota, Florida, May 2006. [Abstract published in *Journal of Vision*, 6(6), 988a, <http://www.journalofvision.org/6/6/988/>.]
- Yi, D. J., Turk-Browne, N. B., Flombaum, J. I., Scholl, B. J., & Chun, M. M. (2006). Effects of spatiotemporal object continuity on repetition attenuation in human fusiform gyrus. Paper presented at the annual meeting of the *Vision Sciences Society*, Sarasota, Florida, May 2006. [Abstract published in *Journal of Vision*, 6(6), 815a, <http://www.journalofvision.org/6/6/815/>.]
- Flombaum, J. I., & Scholl, B. J. (2005). Visual working memory for dynamic objects: Manipulations of motion and persistence in sequential change detection. Poster presented at the annual meeting of the *Vision Sciences Society*, Sarasota, Florida, May 2005. [Abstract published in *Journal of Vision*, 5(8), 613a, <http://journalofvision.org/5/8/613/>.]
- Flombaum, J. I., Santos, L. R., & Scholl, B. J. (2005). Persisting object representations in adult monkeys and humans. Paper presented at the *ESRC Symposium on Object Representations*, New Haven, Connecticut, March 2005.
- Santos, L. R., Flombaum, J. I., & Lyons, D. (2005). The evolution of self-awareness and theory of mind. Paper presented at the *Human Behavior and Evolution Society*, Austin, Texas, June 2005.
- Flombaum, J. I., & Santos, L. R. (2004). What rhesus monkeys understand about the knowledge of others. Paper presented at *The Biennial Conference on Infant Studies*, Chicago, Illinois, May 2004.

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- Flombaum, J. I., & Scholl, B. J. (2004). A temporal same-object advantage for persisting objects: change-detection studies of the "tunnel effect." Poster presented at the annual meeting of the *Vision Sciences Society*. Sarasota, Florida, April 2004. [Abstract published in *Journal of Vision*, 4(8), 730a, <http://journalofvision.org/4/8/730/>.]
- Flombaum, J. I., Junge, J. A., & Hauser, M. D. (2003). Object-based attention in a nonhuman primate: how rhesus monkeys enumerate small numbers of visual objects. Paper presented at the annual workshop on *Object Perception, Attention, and Memory*. Vancouver, Canada, November 2003.
- Santos, L. R., Flombaum, J. I., & Hauser, M. D. (2002). What does a non-human primate understand about self-propelled motion? Expectancy violation experiments with rhesus macaques. Poster presented at *The Biennial Conference on Infant Studies*. Toronto, Canada, May 2002.
- Fan, J., McCandliss, B. D., Flombaum, J. I., Thomas, K. M., & Posner, M. I. (2001). Comparing images of conflict in frontal cortex. Poster presented at the annual meeting of the *Cognitive Neuroscience Society*. New York City, New York, March 2001.
- Fan, J., McCandliss, B. D., Flombaum, J. I., & Posner, M. I. (2001). Imaging attentional networks. Poster presented at the annual meeting of the *Society for Neuroscience*. San Diego, California, November 2001.

### Invited Talks

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Stoney Brook University	Psychology Colloquium	October 2015
University of Delaware	Cognitive Colloquium	October 2015
Northwestern University	<i>Cognitive Brown Bag</i>	February 2015
University of Chicago	<i>NEURO Lecture Series</i>	February 2015
Tel Aviv University	<i>Psychology Colloquium</i>	July 2014
Rutgers University	<i>Cognitive Science Colloquium</i>	February 2014
Yale University	<i>Cognitive Research Seminar</i>	January 2014
Princeton University	<i>Cognitive Psychology Seminar</i>	January 2014
University of Virginia	<i>Cognitive Psychology Colloquium</i>	March 2013
Kennedy Krieger Institute	<i>Child Neuropsychology Seminar</i>	May 2009
University of Maryland	<i>Event Perception Seminar</i>	March 2009
Dartmouth College	<i>Cognitive Lunch</i>	February 2008
Johns Hopkins University	<i>Psychology Seminar</i>	February 2008
UC, San Diego	<i>Psychology Seminar</i>	January 2008
BenGurion University (Israel)	<i>Computer Science Seminar</i>	August 2007
Birkbeck College, UK	<i>Center for Brain and Development</i>	May 2007
Bristol University, UK	<i>Psychology Department Seminar</i>	April 2007
Institute of Cognitive Neuroscience	<i>Social Cognition Seminar</i>	April 2007
Princeton University	<i>Cognitive Research Seminar</i>	January 2006

### Journal and Grant Reviewing

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Consulting Editor:

*Attention, Perception, & Psychophysics* (2011-2014)

*Visual Cognition* (2011 – present)

Ad-hoc Reviewer: *Acta Psychologica*; *Animal Cognition*; *Cerebral Cortex*; *Child Development*; *Cognition*; *Developmental Psychobiology*; *Journal of Experimental Psychology: HPP / LMC / General*; *Journal of Neuroscience*; *Mind & Language*; *Nature*; *Proceedings of the Royal Society*; *Proceedings of the National Academy of Sciences*; *Psychological Science*; *Quarterly Journal of Experimental Psychology*; *Science*; *Spanish Ministry of Science and Education (grant review)*; *Leverhulme Trust (grant review)*; *Israel Science Foundation (grant review)*; *National Institute of Health (ad-hoc study section reviewer)*; *National Science Foundation (ad-hoc grant review)*

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### Teaching

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*Introduction to Cognitive Psychology* (AS200.110) Johns Hopkins University. Enrollment: 180 (Spring 2010) / 220 (Spring 2011) / 170 (Spring 2012) / 185 (Spring 2013) / 185 (Spring 2014)

*The Social Brain / The Visual Brain* (AS200.387) Johns Hopkins University. Enrollment: 20 (Spring 2009) / 20 (Fall 2010)

*Thought and Perception* (AS.200.316 / AS.150.476) Johns Hopkins University. Enrollment: 21 (Fall 2011). Co-instructor with Steven Gross (Department of Philosophy); 19 (Fall 2013); 16 (Fall 2014); 16 (Fall 2015).

### Graduate Student and Postdoc Training

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Gi Yeul Bae                      PhD student, 2009-2014  
*Current position: Postdoctoral fellow, UC Davis w/Dr. Steven Luck*

Sheng-hua Zhong              Postdoctoral fellow, 2013-2014  
*Current position: Lecturer (asst. professor equivalent), Research Institute of Future Media Computing, Shenzhen University, China*

Zheng Ma                      *PhD expected May 2016 (began 2011)*  
Mark Schurgin                *PhD expected May 2017 (began 2012)*  
Feitong Yang                 *PhD expected May 2018 (began 2013)*

### Selected Service

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#### Graduate Board Oral Exams

*Michael Rushanan, Computer Science, 2015*

*Paul Martin, Computer Science, 2014*

*Darko Odic, Psychological and Brain Sciences, 2013*

*Wei Zhao, Economics, 2013*

*Hee Yeon Im, Psychological and Brain Sciences, 2013*

*Chris Kirov, Cognitive Science, 2013*

*Mark Lapierre, Psychology, University of Melbourne, 2013 (outside examiner)*

*Manuel Vindiola, Cognitive Science, 2013*

*Jeff Moher, Psychological and Brain Sciences, 2011*

*Simon Fischer-Baum, Cognitive Science, 2011*

*Emma Gregory, Cognitive Science, 2010*

*Ariel Goldberg, Cognitive Science, 2010*

*Benjamin Rosenau, Psychological and Brain Sciences, 2010*

*Michael Liddle, Computer Science, University of Otago, (NZ) 2010 (outside examiner)*

*Adam Greenberg, Psychological and Brain Sciences, 2009*

*Victor DiFate, Philosophy, 2009*

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### Public Lectures

*Parents' College at Family Weekend (2015)*

*Hopkins Hillel Dinner and Learn (2015)*

*JHU Spring Open House Overnight Program (SOHOP) (2011, 2012, 2013)*

*Momentum: Ideas in Motion, sponsored by the Hopkins Undergraduate Research Journal (2012)*

*Admissions Summer Saturdays (2012)*

*Hopkins Hillel Freshman Move-In (2012, panelist)*

### Committees

2015 Application review — Provost's Undergraduate Research Award (PURA)

2014 Faculty search — Bloomberg Distinguished Professor in Computational Cognitive Science (Computer Science, Cognitive Science)

2014 Faculty search — Bloomberg Distinguished Professor in Networks and Neuroscience (Psychological and Brain Sciences, Biomedical Engineering)

2009 University Committee on Electronic Submission of Dissertations