

SOOJIN PARK

Curriculum Vitae

October 2013

Contact Information

Cognitive Science Department
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Academic Appointments

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| Assistant Professor Department of Cognitive Science, Johns Hopkins University | 2011- |
| Postdoctoral Associate Brain and Cognitive Sciences, MIT Advisor: Dr. Aude Oliva | 2008-2011 |

Education

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|---------|-------------------------------------------|--------------------------------------------------------------------|-----------|
| Ph.D. | Yale University | (Cognitive Psychology) Advisor: Dr. Marvin Chun | 2008 |
| M.Phil. | Yale University | (Cognitive Psychology) | 2006 |
| M.S. | Yale University | (Cognitive Psychology) | 2005 |
| B.A. | Yonsei University, Seoul, Korea | (Psychology & English literature) | 2004 |
| | University of Oregon (junior year abroad) | <i>Research Assistant</i> (Spring 2002) Advisor: Dr. Edward Awh | 2001-2002 |

Research Interests

General Areas

Visual perception and Cognition
Scene perception and memory

Specific Questions (selected)

- What are neural mechanisms that support the construction of scene percept and memory? How does the visual system integrate across views of scenes?
- What are key properties that define a scene; how are these properties represented across the scene network?

- How does attention and working memory interact?

Honors and Fellowships

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| Dissertation Fellowship, Yale University | 2007-2008 |
| University Fellowship, Yale University | 2003-2007 |
| Dean's Award, University of Oregon | 2001-2002 |
| Academic Fellowship, Yonsei University, Seoul, Korea | 2000-2001 |

Publications

Published or Accepted

Park, S., Konkle, T., & Oliva, A. (in press). Parametric coding of scene size and clutter independent of semantic category. *Cerebral Cortex*

Park, S., & Chun, M. M. (in press). The constructive nature of scene perception. *Scene Vision*, ed. Kveraga, K. and Bar, M. MIT Press.

Park, S., Brady, T. F., Greene, M. R., & Oliva, A. (2011). Disentangling scene content from spatial boundary: Complementary roles for the PPA and LOC in representing real-world scenes. *Journal of Neuroscience*, 31(4), 1333-1340.

Golomb, J. D., Albrecht, A., Park, S., & Chun, M. M. (2011). Eye movements help link different views in scene-selective cortex. *Cerebral Cortex*. 21:2094-2102.

Oliva, A., Park, S., & Konkle, T. (2011). Representing, Perceiving and Remembering the Shape of Visual Space. *Vision in 3D Environments*, ed. L. R. Harris and M. Jenkin. Cambridge University Press

Park, S., Chun, M. M., & Johnson, M. K. (December, 2010). Refreshing and integrating visual scenes in scene-selective cortex. *Journal of Cognitive Neuroscience* 22:12, 2813-2822.

Park, S., & Chun, M. M. (2009). Different roles of the parahippocampal place area (PPA) and retrosplenial cortex (RSC) in scene perception. *Neuroimage* 47, 1747-1756.

Park, S., Intraub, H., Yi, D. -J., Widders, D., & Chun, M. M. (2007). Beyond the Edges of a view: Boundary extension in human scene-selective visual cortex. *Neuron* 54, 335-342.

Park, S., Kim, M. -S., & Chun, M. M. (2007). Concurrent working memory load can facilitate selective attention: Evidence for Specialized Load. *Journal of Experimental Psychology: Human Perception & Performance* 33(5), 1062-1075.

Manuscripts in preparation

Ferrara, K., & Park, S. (in preparation). The size of space defined by different types of boundary cues.

Hatfield, M., McCloskey, M., & Park, S. (in preparation). Mirror image-confusion in object-selective cortex: It depends on the axis.

Park, S., Turk-Browne, N. B., & Chun, M. M. (in preparation). Task specificity and variability in memory representation.

Park, S. (in preparation). Neural representation of the navigability in a scene.

Conference Presentations

Ferrara, K., Landau, B., & Park, S. (2013, November). The development of Visual Statistical learning at the Categorical level. Poster presented at the *Annual Meeting of the Psychonomic Society*, Toronto, Canada

Johannes, K., & Park, S. (2013, November). Trained statistical structure among targets attenuates the Attentional Blink. Poster presented at the *Annual Meeting on Object Perception, Attention, and Memory*, Toronto, Canada

Park, S., Levine, M., & Dunne, M. (2013, May). Neural representation of the navigability in a scene. Talk presented at the *Annual Meeting of the Vision Sciences Society*, Naples, FL

Ferrara, K., & Park, S. (2013, May). The size of space defined by different types of boundary cues. Poster presented at the *Annual Meeting of the Vision Sciences Society*, Naples, FL

Park, S., Levine, M., & Dunne, M. (2012, October). Neural representation of the navigability in a scene. Poster presented at the *Annual Meeting of the Society for Neuroscience*, New Orleans, LA.

Park, S., Konkle, T., & Oliva, A. (2011, May). Neural coding of the size of space and the amount of clutter in a scene. Talk presented at the *Annual Meeting of the Vision Sciences Society*, Naples, FL

Park, S., Greene, M., Brady, T. F., & Oliva, A. (2011, January). Disentangling neural representation of scene content from spatial boundary. Talk presented at *SUNS*, Boston, MA.

Park, S., Konkle, T., & Oliva, A. (2010, November). Neural representation of the size of space and the amount of clutter in a scene. Talk presented at the *Annual*

Meeting of the Society for Neuroscience, San Diego, CA.

Park, S., Konkle, T., & Oliva, A. (2010, May). Neural coding of scene volume: the Size of Space represented across the PPA and LOC. Poster presented at the *Annual Meeting of the Vision Sciences Society, Naples, FL*

Park, S., Greene, M., Brady, T. F., & Oliva, A. (2009, May). Natural scene categorization by global scene properties: Evidence from patterns of fMRI activity. Talk presented at the *Annual Meeting of the Vision Sciences Society, Naples, FL*

Greene, M., Park, S., & Oliva, A. (2009, May). Rapid scene understanding: evidence of global property processing before basic-level categorization. Poster presented at the *Annual Meeting of the Vision Sciences Society, Naples, FL*

Park, S., Greene, M., Brady, T. F., & Oliva, A. (2009, January). Natural scene categorization by global scene properties: Evidence from patterns of fMRI activity. Poster presented at *SUNS, Boston, MA.*

Park, S., Chun, M. M., & Johnson, M. K. (2008, April). Constructing an integrated world in the mind: Refreshing a scene in the PPA and RSC. Poster presented at the *Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.*

Park, S., & Chun, M. M. (2007, May). Different roles of the parahippocampal place area (PPA) and retrosplenial cortex (RSC) in scene perception. Talk presented at the *Annual Meeting of the Vision Sciences Society, Sarasota, FL.*

Park, S., & Chun, M. M. Different roles of the parahippocampal place area (PPA) and retrosplenial cortex (RSC) in scene perception (2007, February). Talk presented at *SUNS, Boston, MA.*

Park, S., Introub, H., Widders, D., Yi, D. J., & Chun, M. M. (2006, May). Boundary extension: Filling-out scene layout information in human scene selective cortex. Talk presented at *Annual Meeting of the Vision Sciences Society, Sarasota, FL.*

Golomb, J. D., Park, S., & Chun, M.M. (2006, October). Type of working-memory load matters: Top-down influences on the attentional control of perceptual processing. Talk presented at *Annual Meeting of the Society for Neuroscience: Atlanta, GA.*

Golomb, J. D., Park, S., & Chun, M. M. (2006, May). Working memory load can impair neural processing of unattended information. Poster presented at *Annual Meeting of the Vision Sciences Society, Sarasota, FL.*

Park, S., Kim, M. -S., & Chun, M. M. (2005, May). The type of working memory load influences the magnitude of distractor interference in a selective attention task. Talk presented at *Annual Meeting of the Vision Sciences Society*, Sarasota, FL.

Invited talks and colloquium

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| <i>SB Unit seminar</i> , Dept. of Brain and Cognitive Sciences Seoul National University, Seoul, Korea | August, 2013 |
| <i>Departmental summer talk series</i> , Dept. of Psychology Korea University, Seoul, Korea | August, 2013 |
| <i>Departmental cognitive lunch</i> , Dept. of Psychology University of Delaware | April, 2013 |
| Laboratory of Brain and Cognition NIH | November, 2012 |
| Zelicof Dinner Dean's house, Johns Hopkins University | November, 2012 |
| Bodian Seminar, Mind Brain Institute Johns Hopkins University | February, 2012 |
| <i>Departmental cognitive lunch</i> , Dept. of Psychology Yonsei University: Seoul, Korea. | July, 2010 |
| Dept. of Cognitive Science Johns Hopkins University | March, 2010 |
| <i>Departmental colloquium</i> , Dept. of Psychology Yonsei University: Seoul, Korea. | July, 2009 |
| <i>Cognitive Brown Bag Series</i> , Dept. of Psychology University of New Hampshire | April, 2009 |
| Brain and Cognitive Sciences Massachusetts Institute of Technology | June, 2008 |
| <i>Cognitive area colloquium</i> , Dept. of Psychology Yonsei University: Seoul, Korea. | March, 2007 |

Professional Activities

Ad Hoc Reviewer- Journals

Attention, Perception, & Psychophysics

Brain and Cognition
Cerebral Cortex
Cognition
Cortex
Experimental Brain Research
Human Brain Mapping
Journal of Cognitive Neuroscience
Journal of Experimental Psychology: General
Journal of Experimental Psychology: Human Perception and Performance
Journal of Neuroscience
Journal of Vision
Memory and Cognition
Nature Neuroscience
Neuron
Neuroimage
Neuropsychologia
PLoS One
Psychological Science
Visual Cognition

Ad Hoc Reviewer- Granting Agencies

NSF BCS: Perception, Action & Cognition; Hadwen Trust for Humane Research

Professional Societies

Society for Neuroscience; Vision Sciences Society

Departmental Service (Johns Hopkins University)

2011- present Department Colloquium Committee (co-chair)

Teaching Experience

Courses Taught at Johns Hopkins University

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| <i>Cognitive Neuroscience</i> | Spring 2014 |
| <i>Cognitive Neuroimaging Methods in High-level vision</i> | Spring 2013 |
| <i>Visual Cognition</i> | Fall 2011 -2013 |
| <i>Research Seminar in Cognitive Neuroscience of Vision</i> | Spring & Fall |

Other courses

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| <i>Cognitive Neuroscience (JHU, Guest Lecturer)</i> | Spring 2013 |
| <i>Laboratory in Visual Cognition (MIT, Guest Lecturer)</i> | Fall 2009 |
| <i>Sex, Evolution and Human behavior (Yale, Teaching Fellow)</i> | Spring 2007 |
| <i>Introduction to Psychology (Yale, Teaching Fellow)</i> | Spring 2006 |
| <i>Introduction to Cognitive Science (Yale, Teaching Fellow)</i> | Fall 2005 |
| <i>Introduction to Psychology (Yale, Teaching Fellow)</i> | Spring 2005 |

Advising

Graduate Students

Katrina Ferrara (PhD expected 2015; Co-supervision with Barbara Landau)
Miles Hatfield (PhD expected 2017; Co-supervision with Mike McCloskey)
Jeongho Park (PhD expected 2018)

Ph.D. Dissertation Defense Committees

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| Caroline A. Montojo | Psychology (outside member), Ph.D. awarded 2011 |
| Mariko Moher | Psychology (outside member), Ph.D. awarded 2011 |
| Heeyeon Im | Psychology (outside member), Ph.D. awarded 2013 |

Undergraduate Student PURA awards

Annie Cheng (primary advisor)
Sarah Furlong (secondary advisor)

Undergraduate Students

Matthew Dunne, Elbert Pu, Songye Park, Annie Cheng, Anna Belous, Harry Ngai

Lab Personnel

Matthew Levine (2012 - 2013)
Jung Uk Kang (2013-)

Collaborators

Timothy Brady (MIT), Talia Konkle (MIT), Nicholas Turk-Browne (Princeton), Julie Golomb (Ohio State University), Helene Intraub (University of Delaware), Michelle Greene (Stanford University), Alice Albrecht (Yale University), Marcia Johnson (Yale University), Min-Shik Kim (Yonsei University), Do-Joon Yi (Yonsei University), Barbara Landau (Johns Hopkins University), Michael McCloskey (Johns Hopkins University)