Soojin Park

Curriculum Vitae

Cognitive Science Department
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Baltimore, MD 21218

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Academic Appointments

Assistant Professor — 2011- current
Department of Cognitive Science, Johns Hopkins University

Education and Training

Massachusetts Institute of Technology — 2008-2011
Postdoctoral Associate
Advisor: Aude Oliva

Yale University — 2003-2008
Ph.D., 2008: Psychology
M.Phil., 2006: Psychology
M.S., 2005: Psychology

Yonsei University, Seoul, Korea — 1999-2003
B.A., 2004: Psychology & English Literature

University of Oregon (junior year abroad) — 2001-2002
Research Assistant (Spring 2002)
Advisor: Dr. Edward Awh

Grants and Awards

Current Research Support

NIH R01- EY026042 (4/1/16 - 3/31/21)
Title: Neural representation of the geometry and functionality in a scene
Role: PI
Total amount: $1,638,785

Johns Hopkins Catalyst Award (9/1/15-8/31/16)
Title: Neural sensitivity to Boundary and Geometric shape of space
Role: PI
Total amount: $75,000

Awards and Fellowships

Yale University Dissertation Fellowship	2007-2008
University of Oregon Dean's Award (undergraduate)	2001-2002
Yonsei University Academic Fellowship (undergraduate)	2000-2001

Publications

Manuscripts under review

Park, J. & **Park, S.** (under review). The parahippocampal place area (PPA) conjointly represents texture ensemble and location in a scene.

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

Published

Hatfield, M., McCloskey, M., & **Park, S**. (2016). Neural representation of object orientation: A dissociation between MVPA and Repetition Suppression, *Neuroimage*, http://dx.doi.org/10.1016/j.neuroimage.2016.05.052

Ferrara, K., & **Park, S.** (2016). Neural representation of scene boundaries, *Neuropsychologia*, http://dx.doi.org/10.1016/j.neuropsychologia.2016.05.012

Park, S., Konkle, T., & Oliva, A. (2015). Parametric coding of the size and clutter of natural scenes in the human brain. *Cerebral Cortex, 25 (7), 1792-1805.*

Park, S., & Chun, M. M. (2014). The constructive nature of scene perception. *Scene Vision*, *ed. Kveraga, K. and Bar, M. MIT Press. ISBN: 9780262027854*

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. ISBN: 9781107001756*

Park, S., Chun, M. M., & Johnson, M. K. (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.*

Conference Presentations

Park, S., & Ferrara, K. (2016). Complementary neural representation of scene boundaires. Talk presented at the Symposium of *the Annual Meeting of the Vision Sciences Society*, St. Pete Beach, FL

Ferrara, K., Landau, B., & **Park, S**. (2016). Neural and behavioral sensitivity to boundary cues in Williams syndrome. Talk presented at the Symposium of *the Annual Meeting of the Vision Sciences Society*, St. Pete Beach, FL

Hatfield, M., McCloskey, M., & **Park, S.** (2016). Neural representation of object orientation reveals dissociation between MVPA and Repetition Suppression. Talk presented at *the Annual Meeting of the Vision Sciences Society*, St. Pete Beach, FL

Cheng, R., Ferrara, K., & **Park, S.** (2016). Neural representation of the horizontal extent of spatial boundary cues. Poster presented at *the Annual Meeting of the Vision Sciences Society*, St. Pete Beach, FL

Ferrara, K., Cheng, R., & **Park, S**. (2016). Neural sensitivity to boundary cues across different scene geometries. Poster presented at *the Annual Meeting of the Vision Sciences Society*, St. Pete Beach, FL

Wiley, R. & **Park, S.** (2016). Context-based predictions and errors in scene-selective cortex. Poster presented at *the Annual Meeting of the Vision Sciences Society*, St. Pete Beach, FL

Park, J., Johannes, K., Levine, M. & **Park, S.** (2016). Implicitly learned temporal association between targets attenuates AB effect. Poster presented at *the Annual Meeting of the Vision Sciences Society*, St. Pete Beach, FL

Ferrara, K., Landau, B., & **Park, S.** (2015). Neural and behavioral sensitivity to boundary cues in Williams Syndrome. Talk presented at the Annual Meeting of the Society for Neuroscience, Chicago IL.

Park, S., Ferrara, K., & Landau., B. (2015). Impaired behavioral and neural sensitivity to boundary cues in Williams Syndrome. Poster presented at *the Annual Meeting of the Vision Sciences Society*, St. Pete Beach, FL

Ferrara, K., Furlong, S., Landau., B., & **Park, S.** (2015). Detailed visual memory capacity is present early in life. Poster presented at *the Annual Meeting of the Vision Sciences Society*, St. Pete Beach, FL

Park, J. & **Park, S.** (2015). The representation of texture information in the parahippocampal place area. Poster presented at *the Annual Meeting of the Vision Sciences Society*, St. Pete Beach, FL

Ferrara, K., **Park, S.**, & Landau., B. (2015). Neural and behavioral sensitivity to boundary cues across development. Talk presented at *the Society for Research in Child Development*

Furlong, S., Ferrara, K., Landau, B., & **Park, S.** (2015). Visual memory for objects in young children is surprisingly detailed. Poster presented at *the Society for Research in Child Development*

Ferrara, K., & **Park, S.** (2014). Neural representation of different boundary cues. Talk presented at the *Annual Meeting of the Society for Neuroscience*, Washington D.C.

Hatfield, M., McCloskey, M., & **Park, S.** (2014). Orientation representation in object-selective cortex. Poster presented at the *Annual Meeting of the Society for Neuroscience*, Washington D.C.

Park, J. & **Park, S**. (2014). The nature of texture representation in the PPA. Poster presented at the *Annual Meeting of the Society for Neuroscience*, Washington D.C.

Kang, J., & **Park, S.** (2014). Neural representation for properties determining the navigability of a scene. Poster presented at the *Annual Meeting of the Society for Neuroscience*, Washington D.C.

Hatfield, McCloskey, & **Park, S.** (2014). Mirror-image confusion in object-selective cortex: Are all reflections alike? Poster presented at the *Annual Meeting of the Vision Sciences Society*, St. Pete Beach, FL

Ferrara, K., Landau, B., & **Park, S.** (2013). 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). 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). 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). 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). 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). 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). Disentangling neural representation of scene content from spatial boundary. Talk presented at *SUNS*, Boston, MA.

Park, S., Konkle, T., & Oliva, A. (2010). 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). 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). 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). 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). 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). 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). 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). Talk presented at *SUNS*, Boston, MA.

Park, S., Intraub, H., Widders, D., Yi, D. J., & Chun, M. M. (2006). 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). 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). 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). 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

Keynote speaker, Spatial Cognition Symposium — March, 2015
Penn State University

Colloquium, Institute for Research in Cognitive Science — February, 2015
University of Pennsylvania

SB Unit seminar, Dept. of Brain and Cognitive Sciences — August, 2013
Seoul National University, Seoul, Korea

Seminar, Center for Neuroscience Imaging Research — August, 2013
Sungkyunkwan University, Suwon, Korea

Departmental summer talk series, Dept. of Psychology — August, 2013
Korea University, Seoul, Korea

Departmental cognitive lunch, Dept. of Psychology — April, 2013
University of Delaware

Laboratory of Brain and Cognition — November, 2012
NIH

Zelicof Dinner — November, 2012
Johns Hopkins University

Bodian Seminar, Mind Brain Institute — February, 2012
Johns Hopkins University

Departmental cognitive lunch, Dept. of Psychology — July, 2010
Yonsei University: Seoul, Korea.

Dept. of Cognitive Science — March, 2010
Johns Hopkins University

Departmental colloquium, Dept. of Psychology — July, 2009
Yonsei University: Seoul, Korea.

Cognitive Brown Bag Series, Dept. of Psychology — April, 2009
University of New Hampshire

Brain and Cognitive Sciences — June, 2008
Massachusetts Institute of Technology

Cognitive area colloquium, Dept. of Psychology — March, 2007
Yonsei University: Seoul, Korea.

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, Neuroimag,e Neuropsychologia, PLos One, Psychological Science, Visual Cognition

Ad Hoc Reviewer- Granting Agencies

NSF BCS: Perception, Action & Cognition; Hadwen Trust for Humane Research; Science of Learning Institute, JHU

Professional Societies
Society for Neuroscience; Vision Sciences Society

Departmental Service (Johns Hopkins University)

2011 - present Department Colloquium Committee (chair)

Teaching

Courses Taught at Johns Hopkins University

Cognitive Neuroscience (*Flipped classroom*)	S 2016
Cognitive Neuroscience	S 2014-15
Cognitive Neuroimaging Methods in High-level vision	S 2013; F2015
Visual Cognition	F 2011-13;2016
Research Seminar in Cognitive Neuroscience of Vision	S & F

Other courses

Cognitive Neuroscience (JHU, Guest Lecturer)	S 2013
Laboratory in Visual Cognition (MIT, Guest Lecturer)	F 2009
Sex, Evolution and Human behavior (Yale, Teaching Fellow)	S 2007
Introduction to Psychology (Yale, Teaching Fellow)	S 2006
Introduction to Cognitive Science (Yale, Teaching Fellow)	F 2005
Introduction to Psychology (Yale, Teaching Fellow)	S 2005

Advising

Graduate Students
Katrina Ferrara (PhD, 2015)
Miles Hatfield (PhD expected 2017)
Jeongho Park (PhD expected 2018)
Robert Wiley (PhD expected 2017)
Annie Cheng (MA expected 2016)

Ph.D. Dissertation Defense Committees

Caroline A. Montojo	Psychology, Ph.D. awarded 2011
Mariko Moher	Psychology, Ph.D. awarded 2011
Heeyeon Im	Psychology, Ph.D. awarded 2013
Kristen Johannes	Cognitive Science, Ph.D. awarded 2015
Katrina Ferrara	Cognitive Science, Ph.D. awarded 2015
David Rothlein	Cognitive Science, Ph.D. awarded 2015
Kitty Xu	Psychology, Ph.D. awarded 2016

PURA research awards for Undergraduate Student
Annie Cheng (primary advisor)
Sarah Furlong (secondary advisor)

Undergraduate Students

Matthew Dunne, Elbert Pu, Songyee Park, Annie Cheng, Anna Belous, Harry Ngai, Sarah Furlong; Katie Cho; Elizabeth Chang; Jiwon Shin

Lab Personnel

Matthew Levine (2012 - 2013) Jung Uk Kang (2013- 2015)