

## Woon Ju Park

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Center for Visual Science  
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### Education

- 2012 – Present University of Rochester
- Graduate Program in Brain and Cognitive Science
  - *Advisor:* Duje Tadin (<http://www.bcs.rochester.edu/people/Duje/index.html>)
- 2010 – 2012 Yonsei University
- M.S. in Cognitive Science
  - *Advisor:* Sang Chul Chong (<http://vcc.yonsei.ac.kr>).
  - *Thesis:* On the relationship between vision and art: The perception of spatial layouts and compositions in paintings
- 2005 – 2010 Yonsei University
- B.A. in Psychology
- Summer 2009 University of California Berkeley
- Summer Sessions in Cognitive Science and English Writing in Art History.
- 2007 – 2008 University of Washington
- Exchange program in Psychology and Art History.
- 2002 – 2003 Ewha Girls' Foreign Language High School
- English and French Major

### Research Experience

- 2010 – 2012 Researcher
- National Research Foundation for Korea (NRF) grant funded by the Korea government (MEST), “Dynamic modulation of cortical interaction and visual perception II” (*PI:* Choongkil Lee, Seoul National University, *Co-PI:* Sang Chul Chong, Yonsei University)
- 2010 – 2012 Researcher
- Basic Science Research Program through the National Research Foundation of Korea (NRF) funded by the Ministry of Education, Science, and Technology, “Does modulation of brain activities cause the change of conscious state?” (*PI:* Chai-Youn Kim, Korea University, *Co-PI:* Sang Chul Chong, Yonsei University)

- 2010 – 2012      Research Assistant
- Center for Cognitive Science, Yonsei University
- 2009              Research Assistant
- Vision, Cognition, and Consciousness Lab, Graduate Program in Cognitive Science, Yonsei University

## Teaching Experience

- 2010              Teaching Assistant
- Introduction to Cognitive Science (Instructor: Sang Chul Chong)
  - Graduate Program in Cognitive Science, Yonsei University

## Awards and Honors

- 2012              Excellence in Presentation
- Korean Society for Cognitive Science Annual Spring Conference
- 2010 – 2012      BK21 Participation Scholarship
- Ministry of Education, Science, and Technology, Korea
- 2009              Highest Honors (Yonsei University)
- 2007, 2008      Dean's list (University of Washington)
- 2005              Honors (Yonsei University)

## Publications

Im, H. Y., **Park, W. J.**, & Chong, S. C. Estimation of mean size interacts with selective attention both in goal-directed and stimulus-driven manners. *Under revision.*

**Park, W. J.**, Yoo, S. -A., Eo, K., Kim, K. -J., & Cho, S. -B. Reading other's mind with limited information in evolutionary robotics. *Under revision.*

**Park, W. J.**, & Chong, S. C. The Influence of Painting Composition on Human Perception. *Seeing and Perceiving. In press.*

**Park, W. J.**, Jung, I., Park, J., Bae, S., & Chong, S. C. (2011). The effect of spatial dimension shifts in rotated target position search. *Korean Journal of Cognitive Science, 22(2)*, 103-121.

## Conference Presentations

Yoo, S. -A., **Park, W. J.**, & Chong, S. C. (2012, July) Filling-in the blind spot with the average direction. *In 2012 Asia-Pacific Conference on Vision. Poster.*

- Park, W. J., Im, H. Y., & Chong, S. C.** (2012, June). Bottom-up and top-down interactions between ensemble statistics and selective attention. *In Korean Society for Cognitive Science Annual Spring Conference. Talk.*
- Park, W. J., Im, H. Y., & Chong, S. C.** (2012, May). Ensemble statistics and attentional selection. *In Vision Sciences Society. Poster.*
- Park, W. J., & Chong, S. C.** (2011, June). Processing of compositions influences perceptual similarity in paintings. *In Korean Society for Cognitive Science Annual Spring Conference. Talk.*
- Park, W. J., & Chong, S. C.** (2011, May). Mental representation of compositions in paintings is based on their perceptual similarities. *In Vision Sciences Society. Poster.*

## Ongoing Projects

- 1) The time-course of adaptation to individual and group visual properties
- 2) Selective attentional guidance to the centroid of a stimulus group based on the set-based representation of mean size
  - ✓ Manuscript under revision
- 3) Theory of Mind for Robots using Evolutionary Algorithms
  - Cooperating with Soft Computing Laboratory (Yonsei University, Korea, *PI*: Sung-Bae Cho) and Computational Intelligence Laboratory (Sejong University, Korea, *PI*: Kyung-Joong Kim)
  - ✓ Manuscript under revision

## Skills

### Psychophysics

- Visual Search
- Perceptual Filling-in at the blind spot
- Adaptation

### Neurophysics

- fMRI (familiarity)

### Statistics

- Bootstrapping
- Multi-dimensional Scaling

### Image Analysis

- Intensity distribution
- Spatial frequency power spectrum analysis

### Softwares

- Matlab

- Psychophysical Toolbox
- Psignifit Toolbox
- SPSS
- Brain Voyager, and Statistical Parametric Mapping 8 (familiarity)

## Other

- 2010 – 2012 Department Administrative Assistant
- Graduate Program in Cognitive Science, Yonsei University, Seoul, Korea
- 2009 – 2012 Translator, and Exhibition Assistant (August – December 2009)
- Gallery Brain Factory, Seoul, Korea

Last updated: October, 9, 2012