

Kyoung Whan CHOE

Department of Psychology, University of Chicago

5848 S. University Avenue, Chicago, IL 60637

kywch@uchicago.edu

EMPLOYMENT

2015/12 – current Postdoc Scholar (PIs: Dr. Sian Beilock & Dr. Marc Berman)

Department of Psychology, University of Chicago

2015/09 – 2015/11 Postdoc Scholar (PI: Dr. Sang-Hun Lee)

Dept. of Brain & Cognitive Sci., Seoul National University

EDUCATION

PhD Seoul National University, 2010/09-2015/08

Department of Brain & Cognitive Sciences

Thesis: Neuroimaging studies on the role of human primary visual cortex during perceptual decision-making (Advisor: Dr. Sang-Hun Lee)

MS Seoul National University, 2008/03-2010/02

Interdisciplinary Program in Cognitive Neuroscience

BS Korea Advanced Institute of Science and Technology, 1998/03-2005/08

Major: Computer Science, Minor: Mathematics

Served military duty by working at the designated venture companies as a software developer (2002/01-2004/11)

PEER-REVIEWED PUBLICATIONS

Choe KW, Blake R, Lee SH (2016). Pupil size dynamics during fixation impact the accuracy and precision of video-based gaze estimation. *Vision Research* 118:48-59

Suh JE, **Choe KW**, Kim CD (2015). The trends and issues in neuroimaging studies of counseling and psychotherapy (1992-2014). *Korean Journal of Counseling* 16(2): 27-51 (written in Korean language)

Choe KW, Blake R, Lee SH (2014). Dissociation between neural signatures of stimulus and choice in population activity of Human V1 during perceptual decision-making. *The Journal of Neuroscience* 34(7):2725-2743

HONORS AND AWARDS

2014/11 Young Investigator Award, Korean Society of Human Brain Mapping

2013/05 Student Travel Award, Vision Sciences Society

CONFERENCE PRESENTATIONS

- Choe, KW.**, Lee, WY., Lee, SH. (2015), The dynamics of line motion illusion is constrained by the collinearity of its cues and line parts, *Korean Society for Brain and Neural Sciences*, Daegu, Korea (Poster)
- Choe, KW.**, Blake, R., Lee, SH. (2014), Correcting video-based eye-tracking signals for pupil-size artifacts, *Vision Sciences Society*, St. Pete Beach, Florida (Poster)
- Choe, KW.**, Blake, R., Lee, SH. (2013), Decomposition of stimulus representations and decision-bias signatures in population activity of human primary visual cortex, *Vision Sciences Society*, Naples, Florida (**Talk**)
- Choe, KW.**, Blake, R., Lee, SH. (2012), Decomposition of BOLD activity into tuned and untuned components reveals cohabitation of stimulus and choice information in V1, *Asia-Pacific Conference on Vision*, Incheon, Korea (**Talk**)
- Choe, KW.**, Kim, MJ., Suh, YM., Lee, SH. (2010), Trial-to-trial prediction of choice behavior from the stimulus-classification pattern of fMRI activity in human V1, *Society for Neuroscience*, San Diego, California (Poster)
- Choe, KW.**, Lee, SH. (2009), Prediction of perceptual choices from noise fluctuations of fMRI activity in human visual cortex, *Society for Neuroscience*, Chicago, Illinois (Poster)

WORK EXPERIENCE

- 2005/07-2008/02 Data analyst, Daum communications (top Korean internet company)
- *Developed search query/shopping suggestion systems based on data-mining techniques*
- 2003/04-2005/01 Software developer, Softwise (search engine company)
- 2002/01-2003/04 Software developer, FistGlobal (financial software company)

TECHNICAL SKILLS

- Able to design, implement, and execute rigorous psychophysics, eye-tracking, & fMRI experiments using MATLAB (mgl, psychtoolbox)
- Able to conduct advanced analyses of fMRI and eye-tracking data using SPM and custom-made MATLAB scripts
- Have solid understanding of statistics and computer programming