

BYUNG-IL OH

bioh.inbox@gmail.com

INTERESTS	Working memory, Ensemble representation, Computational modeling, Human neuroimaging	
EDUCATION	Sungkyunkwan University <ul style="list-style-type: none">- Bachelor of Science in Psychology- Bachelor of Science in Convergence Software	Seoul, Republic of Korea Mar. 2013 – Present
RESEARCH EXPERIENCES	Visual Cognitive Neuroscience Lab , Sungkyunkwan University <i>Research Assistant</i> (Advisor: Prof. Min-Suk Kang) <ul style="list-style-type: none">- Led project on working memory and ensemble representation. Participated in lab meeting. Ran behavioral and EEG experiment. Set up and managed EEG environment and participant pool. Sensorimotor Cognition Laboratory , Center for Neuroscience Imaging Research, Institute of Basic Science <i>Summer Intern</i> (Advisor: Prof. Jun-Yeol Lee) <ul style="list-style-type: none">- Participated in pilot project on smooth pursuit eye movement and memory. Ran behavioral experiment with eye-tracker and presented result by poster. Learned basics of MRI and fMRI. Functional Brain Mapping Lab , Center for Neuroscience Imaging Research, Institute of Basic Science <i>Undergraduate Assistant</i> (Advisor: Prof. Yunbok Kim) <ul style="list-style-type: none">- Assisted in setting lab environment of rodent optical imaging. Observed rat surgery. Participated in lab meeting by giving presentation.	Seoul, Republic of Korea Feb. 2015 – Aug. 2018 Suwon, Republic of Korea Jun. 2016 – Jul. 2016 Suwon, Republic of Korea Jun. 2015 – Aug. 2015
PUBLICATIONS & MANUSCRIPTS IN PROGRESS	<ol style="list-style-type: none">1. Oh, B.-I., Kim, Y.-J., Kang, M.-S. (submitted). Ensemble representations reveal distinct neural coding of visual working memory.2. Son, G., Oh, B.-I., Kang, M.-S., & Chong, S. C. (under review). Similarity-based clusters are representational units of visual working memory.3. Kang, M.-S. & Oh, B.-I. (2016). Grouping influences output interference in short-term memory: a mixture modeling study. <i>Frontiers in Psychology</i>, 7:585, 1-6.	
PRESENTATIONS	<ol style="list-style-type: none">1. Kang, M.-S., Oh, B.-I., & Kim, Y. (2018). Neural coding schemes of anterior and posterior brain regions in the formation of cluster representation in visual working memory. Poster presented at the 18th Annual Meeting of the <i>Society for Neuroscience</i>, SD., U.S.2. Son, G., Oh, B.-I., Kang, M.-S., & Chong, S. C. (2018). Similarity-based clusters are the representational units of visual working memory. Poster presented at the 18th Annual Meeting of the <i>Vision Science Society</i>, St. Pete Beach, FL., U.S.3. Oh, B.-I. & Kang, M.-S. (2018). Cluster representation during maintenance in visual working memory. Poster presented at the 18th Annual Meeting of <i>Korean Society for Cognitive and Biological Psychology</i>, Suwon, Republic of Korea.4. Son, G., Oh, B.-I., Kang, M.-S., & Chong, S. C. (2018). Similarity-based clusters are the representational units of visual working memory. Poster presented at the 18th Annual Meeting of <i>Korean Society for Cognitive and Biological Psychology</i>, Suwon, Republic of Korea.5. Oh, B.-I. & Kang, M.-S. (2017). Time is needed for memory to be biased toward an ensemble average. Poster presented at the 17th Annual Meeting of the <i>Vision Science Society</i>, St. Pete Beach, FL., U.S. Abstract published in <i>Journal of Vision</i>, 17(10), 350.	

TECHNICAL SKILLS	Advanced MATLAB (Psychtoolbox, EEGLAB, FieldTrip), Python (PsychoPy, PyMC) Moderate R (Stan), C, Java, HTML/CSS, JavaScript, MySQL, Photoshop, Illustrator Beginner C++, C#, PHP, Django, Unity, Arduino
SCHOLARSHIPS	Samsung Convergence Software Course Scholarship (~\$2,000) Spring 2015 – Fall 2016 Korea Student Aid Foundation Scholarship (~\$13,000) Spring 2013 – Fall 2016 Sungkyunkwan University Scholarship (~\$13,000) Spring 2013 – Fall 2016
TEACHING EXPERIENCES	<p>Brain, Mind, and Behavior (PSY3013-01), Seoul, Republic of Korea Department of Psychology, Sungkyunkwan University Fall 2016 <i>Teaching Mentor</i></p> <ul style="list-style-type: none"> Gave summary presentation of cognitive neuroscience topics such as neuroimaging method, perception, attention, memory, decision making, social neuroscience to classmate. <p>Perception (PSY3008-01), Seoul, Republic of Korea Department of Psychology, Sungkyunkwan University Spring 2015 <i>Teaching Mentor</i></p> <ul style="list-style-type: none"> Covered psychometrics, visual, auditory, somatosensory, gustatory perception. Summarized study material for class buddy. Answered their question and led discussion on topic.
EXTRA-CURRICULAR ACTIVITIES	<p>Cognitive Psychology Student Club, Sungkyunkwan University Seoul, Republic of Korea <i>Regular Member</i> Apr. 2014 – Nov. 2017</p> <ul style="list-style-type: none"> Participated in various project on memory, attention, consciousness, face recognition, motion perception, time perception, navigation. Ran experiment, analyzed data, wrote paper, and gave presentation. <p><i>President</i> Jan. 2015 – Dec. 2015</p> <ul style="list-style-type: none"> Organized club meeting and funding. Programmed experiment and ran statistical analysis. Made decision on project. <p>Data Analysis Student Club, Sungkyunkwan University Seoul, Republic of Korea <i>Regular Member</i> Mar. 2016 – Nov. 2017</p> <ul style="list-style-type: none"> Studied statistics, data analysis, machine learning, R, python. Participated in project on network analysis. Entered competition of recommendation system.
MILITARY SERVICE	<p>KATUSA (Korean Augmentation to the United States Army), Republic of Korea Republic of Korea Army Oct. 2018 – Present <i>Administrative Specialist</i></p> <ul style="list-style-type: none"> Performed mandatory military service. Worked with Eighth U.S. Army.