BYUNG-IL OH

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INTERESTS	Working memory, Long-term memory, Computational modeling, Human neuroimaging	

EDUCATION

Sungkyunkwan University — Seoul, Republic of Korea, 2019
- Bachelor of Arts in Psychology
- Bachelor of Science in Engineering, Interdisciplinary Program of Convergence Software

PUBLICATIONS & MANUSCRIPTS IN PROGRESS

1. **Oh, B.-I.**, Kim, Y.-J., Kang, M.-S. (under review). Ensemble representations reveal distinct neural coding of visual working memory.
2. Son, G., **Oh, B.-I.**, Kang, M.-S., & Chong, S. C. (2019, May 9). Similarity-based clusters are representational units of visual working memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition.* Advance online publication. http://dx.doi.org/10.1037/xlm0000722
3. Kang, M.-S. & **Oh, B.-I.** (2016). Grouping influences output interference in short-term memory: a mixture modeling study. *Frontiers in Psychology*, *7*, *585*. https://doi.org/10.3389/fpsyg.2016.00585

PRESENTATIONS

1. **Oh, B.-I.** & Kang, M.-S. (2018). Cluster representation during maintenance in visual working memory. Poster presented at the 18th Annual Meeting of *Korean Society for Cognitive and Biological Psychology*, Suwon, Republic of Korea.
2. **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 *Vision Science Society*, St. Pete Beach, FL., U.S. Abstract published in *Journal of Vision*, *17*(10), 350.

RESEARCH EXPERIENCES

Visual Cognitive Neuroscience Lab, — Seoul, Republic of Korea, Feb. 2015 – Aug. 2018
Department of Psychology, Sungkyunkwan University
Research Assistant (Advisor: Prof. Min-Suk Kang)
- Led project on working memory and ensemble representation. Ran behavioral and EEG experiments. Set up and managed EEG environment and participant pool.

Sensorimotor Cognition Laboratory, — Suwon, Republic of Korea, Jun. 2016 – Jul. 2016
Center for Neuroscience Imaging Research, Institute of Basic Science
Intern (Advisor: Prof. Jun-Yeol Lee)
- Participated in pilot project on smooth pursuit eye movement and memory. Ran behavioral experiment with eye-tracker and presented result by poster.

AWARDS

Data Science Competition 2019, — Republic of Korea, Apr. 2019 – Aug. 2019
Naver Corporation & Seoul National University
Third Place (among 2,000 competitors)
- Purpose: to make creative financial portfolio strategy based on data science
- Designed portfolio optimization method that overcomes disposition effect. Utilized Cox's proportional hazards model, logistic lasso regression, multivariate geometric Brownian motion.

SKILLS

MATLAB, Python, R, Keras, Stan, SQL, C/C++, Java, Photoshop

EXTRA-CURRICULAR ACTIVITIES	**Student Club Activities**, Sungkyunkwan University *Cognitive Psychology Student Club*	Seoul, Republic of Korea Apr. 2014 – Nov. 2017

Student Club Activities, Sungkyunkwan University — Seoul, Republic of Korea / Apr. 2014 – Nov. 2017

Cognitive Psychology Student Club

- Participated in projects on memory, attention, consciousness, face recognition, motion perception, time perception, and navigation. Ran experiment, analyzed data, wrote paper, and gave poster and oral presentations.
- Organized club meeting and fund and made decision on project as club president.

Data Analysis Student Club — Mar. 2016 – Nov. 2017

- Studied statistics, data analysis, machine learning, R, python. Participated in project on network analysis. Entered competition of recommendation system.

Class Mentoring Activities, Sungkyunkwan University — Seoul, Republic of Korea / Fall 2016

Brain, Mind, and Behavior (PSY3013-01)

- Gave summary presentation of neuroimaging method, perception, attention, memory, decision making, social neuroscience to classmates.

Perception (PSY3008-01) — Spring 2015

- Covered psychometrics, visual, auditory, and somatosensory perception. Summarized study material for class buddies. Answered their question and led discussion.

WORK EXPERIENCES

KATUSA (Korean Augmentation to the United States Army), Republic of Korea Army — Republic of Korea / Oct. 2018 – Present

Administrative Specialist

- Performed mandatory military service. Worked with Eighth U.S. Army.

Last Updated: 29 August 2019