GAEUN SON

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BWLab & MackLab
University of Toronto
100 St George St, Toronto, ON
M5S 3G3, Canada

Email:gaeun.son@mail.utoronto.ca
Cell: +1-647-465-5004

EDUCATION

2019 – Ph.D., University of Toronto, Ontario, Canada
Major: Psychology
Advisor: Dirk Bernhardt-Walther and Michael Mack

2015 – 2017 M.S., Yonsei University, Seoul, Korea
Major: Cognitive Science
Advisor: Sang Chul Chong
Thesis: Similarity-based clusters are the representational units of visual working memory

2011 – 2015 B.A., Yonsei University, Seoul, Korea
Major: Psychology
Joint Major: Cognitive Science

RESEARCH INTERESTS

Real-world scene perception & cognition; cognitive neuroscience; generative adversarial networks; psychological dimensions; categorical perception; visual working memory; visual search

PUBLICATIONS

Son, G., Walther, B. D., & Mack, M (2021). Scene wheels: Measuring perception and memory of real-world scenes with a continuous stimulus space. *Behavior Research Method*.

Son, G., Oh, B., Kang, M., & Chong, S. C. (2020). Similarity-based clusters are representational un its of visual working memory. *Journal of Experimental Psychology: Learning, Memory & Cog nition,* 46(1), 46–59.

Cha, O., **Son, G.,** Chong, S.C., & Blake, R. (2020). Novel procedure for generating continuous flas h suppression: Seurat meets Mondrian. *Journal of Vision,* 19(14), 1-1

MANUSCRIPTS

Son, G., Walther, B. D., & Mack, M (*in preparation*). Category learning biases in real-world sc ene perception.

Son, G., Walther, B. D., & Mack, M (*in preparation*). The emergence of similarity structure of real-world scenes in human brains.

Chen, H., **Son, G.**, & Walther, B. D. (*in preparation*). Categorization of continuously changing amb iguous scenes.

Son, G., Chong, S. C. (*in preparation*). Similarity-based clustering of multi-feature objects in visual working memory

Son, G., Sun, J., Im, H.Y., Albohn, D. N., Krevaga, K., Adams Jr, R. G., & Chong, S. C. (*in prepar*

ation). Attentional effects on ensemble coding of emotion in facial crowds: Cross-cultural stud y.

CONFERENCE PRESENTATIONS

Son, G., Walther, B. D., & Mack, M (2022). Category learning biases in real-world scene perceptio n. Talk presentation at the 22nd Annual Meeting of the Vision Sciences Society, St. Pete Beach , FL.

Walther, B. D., Farzanfar, D. & **Son, G.** (2022). Categorization links Perceptual Fluency and Aesth etic Pleasure**.** Poster presentation at the 22nd Annual Meeting of the Vision Sciences Societ, St. Pete Beach, FL.

Chen, H., **Son, G.** & Walther, B. D. (2022) Categorization of continuously changing ambiguous sce nes. *Poster* presentation at the 22nd Annual Meeting of the Vision Sciences Society, Virtual me eting.

Son, G., Walther, B. D., & Mack, M (2021). Scene wheels: Measuring perception and memory of real-world scenes with a continuous stimulus space. *Awarded poster* presented at the 21th Annual Meeting of the Vision Sciences Society, Virtual meeting.

Son, G., & Chong, S. C. (2019). Clustering based on multiple features in visual working memory. P oster presented at the 19th Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.

Son, G., & Chong, S. C. (2019). Clustering mechanism of stimuli with multiple features in visual w orking memory. Talk presented at the Annual Meeting of the Korean Society for Cognitive an d Biological Psychology, Pyeongchang, Gangwon, Korea.

Son, G., Oh, B., Kang, M., & Chong, S. C. (2018). Similarity-based clusters are the representationa l units of visual working memory. Poster presented at the 18th Annual Meeting of the Vision S ciences Society, St. Pete Beach, FL.

Son, G., Oh, B., Kang, M., & Chong, S. C. (2018). Similarity-based clusters as representation units of visual work memory. Poster presented at the Annual Meeting of the Korean Society for Cog nitive and Biological Psychology, Suwon, Korea.

Son, G., & Chong, S. C. (2017). The precision of visual working memory is set by the number of su bsets. Poster presented at the17th Annual Meeting of the Vision Sciences Society, St. Pete Bea ch, FL.

Son, G., & Chong, S. C. (2016). The effect of task-irrelevant global information on visual working memory capacity. Poster presented at the Annual Meeting of the Korean Society for Cognitive and Biological Psychology, Jeju, Korea.

HONORS & AWARDS

2021 — Conference Travel Awards
- Awarded poster presentation at the 21th Annual Meeting of the Vision Sciences Society *(Title - Scene wheels: Measuring perception and me mory of real-world scenes with a continuous stimulus space)*

2016-2017 — External Scholarship
- Funded by Brain Korea 21+, Ministry of Education, Korea

2015 — Awarded Honors
- Awarded to students with GPA of upper 10%

2014 Awarded Highest Honors
- Awarded to students with GPA of upper 1%

2013-2014 University Internal Scholarship
- Academic scholarship for selective students

2013 Awarded Honors
- Awarded to students with GPA of upper 10%

RESEARCH EXPERIENCE

2018.03 – 2018.05 **Student Internship**
- Randolph Blake's Lab, Vanderbilt University.
- Working on two projects including *'interaction between working m emory representations and unconscious visual inputs'*, and *'novel p rocedure of generating continuous flash suppression.'*
- Designed, revised and performed experiments.

2017.09 – 2019.08 **Post-Master's Researcher**
- Vision, Cognition, and Consciousness Lab, Yonsei University.
- Center for Cognitive Science, Yonsei University.
- Working on three projects including *'attentional effect on face ense mble'*, and *'cultural differences of ensemble perception'*, *'clusterin g effect of feature-conjunction stimuli in visual working memory'*. (PI: Sang Chul Chong)
- Designed, revised and performed experiments. Collected and analy zed behavioral data.

2015 - 2017 **Graduate Student Researcher**
- Vision, Cognition, and Consciousness Lab, Yonsei University.
- Working on two projects including *'clustering structure in visual w orking memory'*, and *'interaction between local and global informa tion in visual working memory'.* (PI: Sang Chul Chong)
- Designed, revised and performed experiments. Collected and analy zed behavioral data.
- Presented articles and actively exchanged comments at Journal Clu b, in collaboration with other labs.

2014 – 2015 **Undergraduate Research Assistant**
- Vision, Cognition, and Consciousness Lab, Yonsei University
- Designed research on '*impact of social anxiety level on ensemble c*

oding of emotion in facial crowd.'

- Designed, revised and performed experiments.

TEACHING EXPERIENCE

2021 Winter **Teaching Assistant (Introductory Psychology)**
- University of Toronto, St. George campus

2020 Fall **Teaching Assistant (Sensation & Perception)**
- University of Toronto, St. George campus

2020 Winter **Teaching Assistant (Introductory Psychology)**
- University of Toronto, St. George campus

2019 Fall **Teaching Assistant (Sensation & Perception)**
- University of Toronto, St. George campus

WORKING EXPERIENCE

2017-2019 **Administrative & Research Assistant**
- Center for Cognitive Science, Yonsei University

2015-2016 **Department Administrative Assistant**
- Graduate Program in Cognitive Science, Yonsei University

PROGRAMMING SKILLS

Python
R
Javascript & jsPsych
MATLAB & Psychophysics Toolbox