Jiyoon Jeong

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EDUCATION

University of Toronto *Toronto/Scarborough, ON, Canada*
Ph.D. Candidate in Psychology Present

Korea University *Seoul, Korea*
Master of Science in Behavioral & Cognitive Neuroscience Mar. 2022 – Aug. 2023
- *GPA: 4.5/4.5, Early graduation in three semesters*

Bachelor of Science in Psychology Mar. 2018 – Feb. 2022
Bachelor of Engineering in Computer Science & Engineering (Dual degree)
- *GPA: Psychology 4.12/4.5, Total 4.08/4.5, Great Honor*

University of British Columbia *Vancouver, British Columbia, Canada*
Exchange Student Program Sep. 2019 – Dec. 2019
- *Completed 15 credits of Psychology courses*

PUBLICATIONS

Jeong, J. & Cho, Y. S. (2024). Object-based Suppression in Target Search but not in Distractor Inhibition. *Attention, Perception, & Psychophysics.* https://doi.org/10.3758/s13414-024-02905-7

Kim, S., **Jeong, J.**, & Cho, Y. S. (2024). Proactive Suppression Is Evident Even If the Probe-Recognition Assumption Is Not Evident, 1–14. https://doi.org/10.1080/13506285.2024.2343158

Jeong, J., Lee, J., & Cho, Y. S. (In preparation). Different Roles of Object Representations in Target Selection and Distractor Inhibition: an EEG study.

CONFERENCE PRESENTATIONS

Jeong, J. & Cho Y.S. (Nov. 2023). Objects Modulate Attentional Suppression in Target Search but not in Distractor Inhibition. *Psychonomic Society, San Francisco, CA, USA.*

Jeong, J. & Cho Y.S. (Feb. 2023). Objects Modulate Attentional Suppression through Statistical Learning: Differential Effects of Object-based Attention on Singleton Distractor Inhibition and Target Search. **[Best Presentation Award]**
Korean Society for Cognitive and Biological Psychology, Seoul, Korea.

Jeong, J., Kim, S., & Cho, Y.S. (Nov. 2022). Attentional Suppression of Salient Singleton is Proactive: Examination with Finer Time Resolution in Capture-Probe Task.
Object Perception, Attention, & Memory (OPAM), Boston, MA, USA.

Lee, S.H. & **Jeong, J.** (Aug. 2023). The Effect of Object Representation on Feature-based Suppression.
Korean Psychological Association, Suwon, Korea.

Ryu, E., **Jeong, J.**, & Cho, Y.S. (Aug. 2022). Object Dependency of Attentional Inhibition by Statistical Learning. *Korean Psychological Association, Virtual*.

Lim, A., Kim, S., **Jeong, J.**, Lee, J.E., & Lee, Y.S. (Aug. 2020). The Congruency Sequence Effect Modulated by the Distance of Response Keys. *Korean Psychological Association, Virtual.*

AWARDS & HONORS

University of Toronto
Connaught International Scholarship — Sep. 2024 – Aug. 2028

National Research Foundation of Korea
Brain Korea 21 Research Scholarship (two times) — Spring 2022 & 2023
Brain Korea 21 Combined Bachelor's · Master's Degree Program Scholarship — Spring 2023

Korean Society for Cognitive & Biological Psychology
Best Presentation Award — Feb. 2023

Korea University
Research Assistant Scholarship — Fall 2022
Administrative Assistant Scholarship — Spring 2022
Great Honor — Winter 2021 Graduation
Semester High Honors (five times) — Spring 2018 – Fall 2021
KU Special Scholarship (six times) — Spring 2018 – Fall 2021

SPECIALIZED SKILLS

Programs & Certificates (intermediate or higher levels)
MATLAB *(PsychToolbox, EEGLAB, etc.),* Python *(PsychoPy, PyTorch, ScikitLearn, etc.)*, C, C++, G-Power, OpenSesame *(Mouse Tracking)*, SPSS, JASP, Excel, PostgreSQL, AWS Certified Cloud Practitioner

Languages
English *(fluent)*, Korean *(native)*, German *(intermediate)*, Spanish · Japanese *(basic)*

RESEARCH EXPERIENCE

Human Performance Lab (P.I.: Yang Seok Cho), Korea University

M.S. Researcher (Behavioral Science Research Institute) — Sep. 2023 – Jul. 2024

- **ERP Analysis with Machine Learning**: Examined N2pc/Pd components with lateralized ERP and Inverted Encoding Model (IEM) during object-modulated target/distractor processing. (In progress)
- **Dynamic Object Representation**: Investigated how varying size, locations, and features of objects and their interaction affect attentional capture and inhibition. (In progress)

M.S. Student — Mar. 2022 – Aug. 2023

- **Object-based Configuration of Priority Map**: Developed a novel experimental design integrating visual search task with two-rectangle paradigm. Managed all aspects of research.
- **Feature-based Attention & Feature Map**: Assessed proactive/reactive inhibition of attention from non-target features through modified capture-probe paradigm with finer measures.
- **Statistical Learning**: Investigated the effects of frequently displayed stimulus features/locations on the capture of cues and salient items with behavioral and EEG experiments.

Research Assistant — Jul. 2020 – Feb. 2022

- **Attention & Cognitive Control**: Investigated conflict resolution between incongruent information via attentional allocation to task-relevant/irrelevant dimensions.
- **EEG · Mouse Tracking**: Collected/preprocessed EEG signal and Mouse-tracking trajectories for classification based on time-frequency analysis and SVM.
- **Behavioral Cognitive Tasks**: Implemented various tasks (spatial/color cuing, flanker, etc.) using MATLAB Psychtoolbox and Python PsychoPy.

ACADEMIC · TEACHING EXPERIENCE *(course)*

Course Projects

Natural Language Processing Fall 2021

- Developed a cryptocurrency price prediction model through sentiment analysis of Twitter API data by implementing LSTM and BERT-GRU model. *Selected as an outstanding project in class.* (report, code)

Machine Learning Fall 2021

- Performed categorical predictions on demographic datasets with probabilistic, linear, and non-linear models, including Bayesian classifier, logistic regression, and MLP. (code)

Deep Learning Fall 2020

- Implemented CNN architectures (VGG16, 4-layered ResNet-50 model) for image classification with CIFAR-10 datasets. (code)

Attention & Response Selection Spring 2020

- Tested the effect of response modes on cognitive control via Congruency Sequence Effect (CSE) in cross-Stroop/Simon tasks.

Academic Society for Psychology *(Vice President)* Spring & Fall 2020

- Examined loss aversion between individuals when decision-making under risk with 50% probability.

Teaching Assistant

Attention & Response Selection Spring 2022 & 2023

- Supervised behavioral experiments on attention capture/suppression in team projects. Guided experiment design considerations, equipment usage, and data interpretation.

Hypertext & Computability Spring 2022

- Prepared class environments and equipment. Supervised and graded examinations.

Computing the World Spring 2019

- Assisted Python programming and physical computing using Arduino UNO boards in game-developing projects.

Peer Tutor for International Students

Fundamentals of Psychology I Fall 2018

- Provided individualized supplementary lessons on the course in English.

VOLUNTARY · EXTRACURRICULAR ACTIVITIES

Student Council, School of Psychology Mar. 2018 – Aug. 2019
Supporting students' learning & academic affairs

Volunteering Club at St. Vincent Youth Association Sep. 2018 – Jun. 2019
Study Mentor for multicultural children

Korea University Acappella Club Sep. 2018 – Aug. 2019
Team Director, Club Executive