

# HYERI YOH

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## EDUCATION

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<b>M.S. in Cognitive Science</b> Yonsei University, Seoul, Republic of Korea GPA: 4.27/4.30	Feb 2025
<b>B.A. in Psychology</b> Yonsei University, Seoul, Republic of Korea GPA: 4.04/4.30	Feb 2023

## RESEARCH EXPERIENCE

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<b>Post-Master Researcher</b>	Mar 2025 - Present
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*Cognition Lab, Professor Min-Shik Kim, Dept. of Psychology*

Identifying the Dimension of Visual Feature Underlying Perception of Social Interaction

*In collaboration with Prof. Sang Chul Chong, Dept. of Cognitive Science & Psychology*

Research Aim:

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- dd

**Graduate Student Researcher**

Mar 2023 – Feb 2025

*Cognition Lab, Professor Min-Shik Kim*

Temporal Structure in Visual Working Memory: Contributions of Relative Order and Item-Interval Associations

Research Aim: To investigating how two components of temporal structure

—relative order and item–interval associations—shape VWM representations

- Conceptualized and programmed experiments
- Developed a new method for precise temporal order control
- Recruited participants, conducted experiments, and collected data
- Analyzed results, presented findings at conferences, and prepared a manuscript

Context Effect on Ensemble Emotion Perception in Naturalistic Scenes

*In collaboration with Prof. Sang Chul Chong, Dept. of Cognitive Science & Psychology*

Research Aim:

- Research initially conducted during M.S. program: continued as post-master's research
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## Identifying Features Underlying Relational Memory: Machine Learning Insights into Brain Structure

Research Aim: To examine how feature identification in relational memory relates to hippocampal and prefrontal structures using machine learning analyses

- Developed research questions and processed Human Connectome Project (HCP) data
- Programmed and executed machine learning analyses (clustering and random forest)

## **TEACHING & ADMINISTRATIVE EXPERIENCE**

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### **Teaching Assistant**

*Methodology in Psychology (Undergraduate Course)*

Sep 2023 – Dec 2023

- Conducted TA sessions in English to guide students in designing and implementing research projects
- Advised on research topic selection, experimental design, and appropriate statistical analysis through regular TA meetings during each group's project development

*Cognitive Psychology (Undergraduate Course)*

Mar 2024 – Jun 2024

- Designed, proctored, and graded midterm and final exams based on lecture and student presentations

### **Administrative Experience**

*Lab Administrative Assistant*

Mar 2023 – Oct 2023 / Sep 2024 – Feb 2025

- Managed the lab's administrative tasks, including budgeting, supply orders, documentation, and performance reporting
- Managed the lab website and email communications; coordinated with the professor and lab members on lab operations

*BK21(Brain Korea21) Program Research Assistant*

Apr 2025 – Jun 2025

- Compiled and organized data and supporting documents from multiple departments
- Drafted and reviewed Yonsei University's annual evaluation report for the BK21 Four national research funding program

### **International Student Support**

*International Student Support Assistant*

Sep 2023 – Dec 2023 / Sep 2024 – Dec 2024

- Reached out to international psychology students to provide academic support and help with course-related issues via email, one-on-one meetings, and supplemental TA sessions

## HONORS & SCHOLARSHIPS

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### Honors & Awards

- 2024**     *Best Poster Presentation Award*  
78th Annual Meeting of the Korean Psychological Association
- 2022/23**   *Highest Honors for Academic Achievement*  
Yonsei University (Fall 2021, Fall 2022)
- 2021**     *Honors for Academic Achievement*  
Yonsei University (Spring 2021)

### Scholarships

- 2023/24**   *International Student Support Assistant Scholarship*  
Yonsei University (Fall 2023, Fall 2024)
- Teaching Assistant (TA) Scholarship*  
Yonsei University (Fall 2023, Spring 2024)
- Graduate Student Research Assistant (GSRA) Scholarship*  
Yonsei University (Spring 2023, Fall 2024)
- 2021/22**   *Yonsei Truth Scholarship*  
Yonsei University (merit-based; Fall 2021, Spring 2022, Fall 2022)

## PUBLICATION

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**Yoh, H.**, & Kim, M.-S. (submitted) Temporal Structure in Visual Working Memory: Contributions of Relative Order and Item-Interval Associations.

Lee, W<sup>†</sup>., **Yoh, H<sup>†</sup>.**, & Chong, S.C. (In preparation). Context Effect on Ensemble Emotion Perception in Naturalistic Scenes.

Hong, L., **Yoh, H.**, Lee, W., Kim, Y., Park, J., Yoon., G., & Kim, M.-S. (In preparation). Identifying the Dimension of Visual Feature Underlying Perception of Social Interaction.

## PRESENTATIONS

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**Yoh, H.**, & Kim, M.-S. (2024, November). Temporal Interitem Relations in Visual Working Memory  
Poster presented at the 32nd *Annual Meeting of the Object Perception, Attention, and Memory (OPAM) Conference*, New York, NY.

**Yoh, H., & Kim, M.-S.** (2024, August). Temporal Structure in Visual Working Memory: Absolute or Relative? Poster presented at *the 78th Annual Conference of the Korean Psychological Association*, Gyeongju, Republic of Korea. – Recipient of Best Poster Award

**Yoh, H., & Kim, M.-S.** (2024, February). Temporal Order in Visual Working Memory: Absolute or Relative? Poster presented at *the 2023 Annual Conference of the Korean Society for Cognitive and Biological Psychology*, Seoul, Republic of Korea.

## **ACADEMIC & COLLABORATIVE ACTIVITIES**

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### **Lab-based Learning Activities**

#### *Journal Club*

Winter 2023, Summer 2023, Winter 2024

- Participated in journal clubs on key topics in cognitive psychology by reading and presenting one selected paper each week over a 7-week period, followed by group Q&A discussions
- In the third term, assumed a leadership role in the final one by selecting readings, structuring the meetings, and facilitating group discussion

#### *Python Study group*

Summer 2023, Winter 2024

- Learned the basics of Python and expanded to experimental design, PsychoPy coding, and data preprocessing
- In the second term, led a learning session by sharing and explaining my own experiment code and analysis pipeline

#### *MATLAB Study group*

Winter 2023, Summer 2023

- Studied the basics of MATLAB through weekly tasks and short programming assignments

### **Chat but Better – English Research Discussion Group**

Mar 2025 – Jun 2025

- Participated in an English-only research discussion group with graduate students from diverse subfields of psychology
- Delivered research presentations, engaged in Q&A sessions, and held casual conversations entirely in English, enhancing academic communication and spontaneous speaking skills

### **CogSci:IN – Undergraduate Cognitive Science Association**

Mar 2022 – Dec 2022

- Participated in weekly student-led seminars with peers from various disciplines, delivering topic presentations and engaging in group discussions on key issues in cognitive science
- As part of a required semester project, chose to form a research group and participated in the design and execution of cognitive psychology studies

## **SKILLS**

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## Statistical Analysis

- Data preprocessing, descriptive statistics, T-tests, ANOVA, correlation analysis, regression analysis, and visualization using **R, JASP, and Python**
- Bayesian Generalized Linear Model (GLM) analysis and model comparison (**R**)

## Experimental Stimuli Design

- Designed and conducted cognitive experiments (e.g., change detection, memory recall, ensemble perception, Likert-scale emotion judgement) using **PsychoPy**
- Controlled and normalized low-level visual features of stimuli using **MATLAB SHINE Toolboxes**
- Manipulated and established naturalistic visual stimuli using **Photoshop** and **DeepFace**

## Machine Learning & Data Analysis

- Applied Principal Component Analysis (PCA), Support Vector Machine (SVM), K-Means Clustering, and Random Forest models
- Conducted word-level analysis of open-ended text responses, including tokenization, embedding, clustering, and co-occurrence network modeling
- Performed facial recognition and emotion classification using DeepFace
- All analyses were implemented using **Python in Jupyter Notebook**

## Language

- Korean (Native), English (Fluent)