

# Yong Min Choi, Ph.D.

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 Current      Dartmouth College  
 Affiliation      ( <https://sites.dartmouth.edu/stoermerlab/> )

## ○ Research Interests

Visual Perception, Eye Movements, Scene Perception, Attention, Cognitive Neuroscience

## ○ Work Experience



**Post-doctoral Research Associate**

2025 Aug -

**Dartmouth College**, Hanover, New Hampshire, USA

Advisor: [Viola Störmer](#)

## ○ Education



**The Ohio State University**, Columbus, Ohio, USA

2020 - 2025

Ph.D. in Cognitive Neuroscience, Dept of Psychology

M.A. in Cognitive Neuroscience, Dept of Psychology

Advisor: [Julie D. Golomb](#)



**Yonsei University**, Seoul, South Korea

2018 - 2020

M.A. in Cognitive Science, Dept of Psychology

Advisor: [Sang Chul Chong](#)

**Yonsei University**, Seoul, South Korea

2012 - 2018

B.A in Psychology (Joint major in Cognitive Science)

## ○ Publications & Preprints      \*: (co-)first author; †: corresponding author

**Choi, Y. M<sup>\*†</sup>**, Chiu, T. Y. & Golomb, J. D. (2025). Post-Saccadic Disruption of Semantic Category Information in Naturalistic Scenes. *bioRxiv*. <https://doi.org/10.1101/2025.06.06.658316>

**Choi, Y. M<sup>\*</sup>**, Chiu, T. Y., Ferreira, J. & Golomb, J. D<sup>ψ</sup>. (2025). Maintaining Visual Stability in Naturalistic Scenes: The Roles of Trans-Saccadic Memory and Default Assumptions. *Cognition*. <https://doi.org/10.1016/j.cognition.2025.106165>

Narhi-Martinez, W<sup>\*</sup>, **Choi, Y. M.**, Dube, B., & Golomb, J. D<sup>ψ</sup>. (2025). Allocation of Spatial Attention in Human Visual Cortex as a Function of Endogenous Cue Validity. *Cortex*. <https://doi.org/10.1016/j.cortex.2025.01.002>

**Choi, Y. M<sup>ψ</sup>**, & Golomb, J. D. (2024). The perceptual and mnemonic effects of ensemble representation on individual size representation. *Attention, Perception, & Psychophysics*. <https://doi.org/10.3758/s13414-024-02963-x>

**Choi, Y. M<sup>\*</sup>**, Cho, J., & Chong, S. C<sup>ψ</sup>. (2024). Ensemble Memory of a Scene Interacts With Current Perception Regardless of Attentional Requirements. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. <https://doi.org/10.1037/xlm0001332>

Strzelczyk, D., Clayson, P.E., ..., Lu, Z., **Choi, Y. M.**, Lout, E., Golomb, J.D., ..., Langer, N. (2023 accepted, stage 1 registered replication). Contralateral delay activity as a marker of visual working memory capacity: a multi-site registered replication. *Cortex*. Preprint on PsyArXiv: <https://psyarxiv.com/shdea/>

**Choi, Y. M<sup>\*</sup>**, & Chong, S. C<sup>ψ</sup>. (2020). Effects of Selective Attention on Mean-Size Computation: Weighted Averaging and Perceptual Enlargement. *Psychological Science*, <https://doi.org/10.1177/0956797620943834>

○ **Manuscripts Under Review/in Preparation**    <sup>\*</sup>: (co-)first author; <sup>ψ</sup>: corresponding author

**Choi, Y. M<sup>ψ</sup>**, Chiu, T. Y. & Golomb, J. D. (under revision). Post-Saccadic Disruption of Semantic Category Information in Naturalistic Scenes.

**Choi, Y. M<sup>\*</sup>** & Golomb, J. D<sup>ψ</sup>. (in preparation). Distinct Forms of Pre-saccadic Remapping in the Human Brain: A Voxel-Wise Predictive Encoding Model Approach

○ **Invited Talks**

**Choi, Y. M.** (Jun 2025) Through the Eyes of the Brain: Receptive Field Remapping in the Human Visual Cortex. [CCBS Undergraduate Summer Institute](#), Graduate Student Talk Session, Ohio, USA

**Choi, Y. M.** (Apr 2025). Through the Eyes of the Brain: Maintaining stable visual perception across saccadic eye movements. *Joint Lab Meeting at Dartmouth College* (Principle investigators: Dr. Viola Störmer, Dr. Caroline Robertson, and Dr. Brad Duchaine), Hanover, New Hampshire, USA. (Virtual talk)

**Choi, Y. M.** (Mar 2025). Through the Eyes of the Brain: Receptive Field Remapping in the Human Visual Cortex. 2025 [Midwest Regional Conference \(MRC\)](#), Urbana, Illinois, USA.

**Choi, Y. M.** (Aug 2024). Visual perception and saccadic eye movements: perceptual impairment and stability mechanisms. *Vision and Perception Neuroscience Lab (PI: Dr. Kalanit Grill-Spector)*, Stanford University, CA, USA. (Virtual talk)

**Choi, Y. M.** (Jun 2024). Visual perception and saccadic eye movements: perceptual impairment and stability mechanisms. *Laboratory of Brain and Cognition (PI: Dr. Chris Baker)*, National Institute of Mental Health, MD, USA. (Virtual talk)

#### ○ Conference Talk Presentations

**Choi, Y. M.** & Golomb, J. D. (May 2025). Voxel-wise predictive encoding models reveal evidence for pre-saccadic remapping in the human visual cortex. *the Vision Sciences Society annual conference* in Florida, USA.

**Choi, Y. M.**, Chiu, T. Y., Golomb, J. D. (May 2024). Behavioral and neural correlates of impaired scene perception following saccadic eye movements. *the Vision Sciences Society annual conference* in Florida, USA.

**Choi, Y. M.**, Chiu, T. Y., Golomb, J. D. (Nov 2023). Behavioral and neural correlates of impaired scene perception following saccadic eye movements. *Center for Cognitive and Behavioral Brain Imaging research day*, 2023, Columbus, Ohio, USA.

**Choi, Y. M.** & Golomb, J.D. (April 2022). Department of psychology Spring Graduate Student Research Forum.

**Choi, Y. M.**, Cho, J. E., & Chong, S. C. (July 2021). Interaction between current perception and recent multi-feature ensemble representations depending on task-relevance. *the Korean Society for Cognitive and Biological Psychology*.

**Choi, Y. M.**, Cho, J. E., & Chong, S. C. (June 2021). Task-irrelevant statistical ensemble memory of a scene affects current perception. *the Virtual Working Memory Symposium*.

**Choi, Y. M.**, Park, H. S. (May 2016). The effect of sleep on the type of memory associated with a traumatic event. *The Korean Society for Cognitive Science Annual Spring Conference*.

○ **Conference Poster Presentations**

**Choi, Y. M.**, Golomb, J. D. (Dec 2025). Voxel-Wise Predictive Encoding Models Reveal Evidence for Pre-Saccadic Remapping in the Human Visual Cortex. *Society for Neuroscience*, San Diego, California, USA.

**Choi, Y. M.**, Golomb, J. D. (Dec 2024). Voxel-Wise Predictive Encoding Models Reveal Evidence for Pre-Saccadic Remapping in the Human Visual Cortex. *Center for Cognitive and Behavioral Brain Imaging research day*, Columbus, Ohio, USA.

**Choi, Y.M.**, Chiu. T. Y., Golomb, J. D.(Jun 2024). Behavioral and neural correlates of impaired scene perception following saccadic eye movements. *Organization for Human Brain Mapping, 2024*, Seoul, Republic of Korea.

Ferreira, J., **Choi, Y.M.**, Chiu. T. Y., Golomb, J. D.(May 2024). The Blanking Effect on Detecting Changes in Natural Scenes across Saccades. *the Vision Sciences Society annual conference* in Florida, USA.

Okojie, E., Dube , B., **Choi, Y.M.**, Golomb, J. D.(Nov 2023). Assessing Connectivity Between Brain Regions in the Visual Cortex in the Context of Attention and Distraction, *the Annual Biomedical Research Conference for Minoritized Scientists*, Phoenix, AZ., USA.

**Choi, Y.M.**, Chiu. T. Y., Golomb, J. D.(Nov 2023). Behavioral and neural correlates of impaired scene perception following saccadic eye movements. *The Society for Neuroscience*, Washington, D.C., USA.

**Choi, Y.M.**, Chiu. T. Y., Golomb, J. D.(May 2023). Post-saccadic impairment of scene perception. *the Vision Sciences Society annual conference* in Florida, USA.

**Choi, Y.M.**, Chiu. T. Y., Golomb, J. D.(Feb 2023). Exploring Scene Perception Following Saccadic Eye Movements. *Edward F. Hayes Advanced Research Forum* in The Ohio State University, Ohio, USA.

**Choi, Y.M.**, Golomb, J. D.(Nov 2022). Stimulus regularities help protect visual perception from peri-saccadic impairment. *OPAM* in Boston, USA.

Zihan Bai, **Choi, Y.M.**, Golomb, J. D.(May 2022). The influence of background scenes on spatial congruency bias. *the Vision Sciences Society annual conference* in Florida, USA.

**Choi, Y.M.**, Golomb, J. D.(May 2022). The effect of stimulus regularity on peri-saccadic perception. *the Vision Sciences Society annual conference* in Florida, USA.

**Choi, Y.M.**, Golomb, J. D.(June 2021). Does average size of an ensemble bias individual size representations during perception or working memory retention?. *the Virtual-Vision Sciences Society annual conference*.

**Choi, Y.M.**, Chong, S. C. (June 2020). The effect of holding multi-feature ensemble in visual working memory on perception. *the Virtual-Vision Sciences Society annual conference*.

**Choi, Y.M.**, Chong, S. C. (May 2019). Attending to individual size modulates mean size computation. *the Vision Sciences Society annual conference* in Florida, USA.

**Choi, Y.M.**, Chong, S. C. (Feb 2019). Effect of attention on individual size in mean size computation. *the Korean Society for Cognitive and Biological Psychology* (travel award).

#### ○ Awards & Honors

|   |      |     |
|---|------|-----|
| Best oral presentation at the <a href="#">Center for Cognitive and Behavioral Brain Imaging research day</a> , 2023, Columbus, Ohio, USA              | 2023 | Dec |
| 1 <sup>st</sup> award from poster presentations for a Social and Behavioral Sciences at the <a href="#">Edward F. Hayes Advanced Research Forum</a> . | 2023 | Feb |
| Travel Award for a poster presentation at the Korean Society for Cognitive and Biological Psychology annual conference.                               | 2021 | Jul |
| Distinguished Thesis, Yonsei University   | 2020 | Dec |
| Travel Award for a poster presentation at the Korean Society for Cognitive and Biological Psychology annual conference.                               | 2019 | Feb |
| Excellence Award in Computational Neuroscience Winter School. Korean Society for Computational Neuroscience   | 2018 | Feb |

#### ○ Grants / Scholarships / Fellowships

|   |      |      |
|---|------|------|
| Annual Summer Graduate Research Award   | 2025 | May- |
| - Primary Advisor: Dr. Julie D. Golomb  |      | Aug  |
| - Visiting Advisor: Dr. Deyue (Dion) Yu |      |      |

The Center for Cognitive and Brain Sciences, The Ohio State University

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|--|-------------|---------|
| Graduate Student Scholarship (Graduate Student Research Excellence Award)                        | 2023        | May-Aug |
| Department of Psychology, The Ohio State University  |             |         |
| Social and Behavioral Sciences (SBS) Graduate Scholarship  | 2022        | May-Aug |
| College of Arts and Sciences, The Ohio State University  |             |         |
| University Fellowship  |             |         |
| Graduate School, The Ohio State University   |             |         |
| Scholarship funded by Brain Korea 21+  | 2019        | Mar-Aug |
| Ministry of Education, South Korea.  |             |         |
| Scholarship funded by Yonsei University for accelerated bachelor / master's scholarship program. | 2018 - 2019 |         |

### ○ Service & Leadership

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|--|-------------|
| Korean American Scientists and Engineers Association ( <a href="#">KSEA</a> ) – Ohio chapter, Web master   | 2025 -      |
| Panel for discussing academic research and graduate school at Code for Brain Decoding (CODE) program organized by Center for Cognitive Behavioral and Brain Imaging (CCBBI), OSU | 2024 - Jun  |
| Center for Cognitive and Behavioral Brain Imaging (CCBBI) <a href="#">Student Group</a> , Technical Director.  | 2022 - 2023 |
| Founding member and Vice-President of CogSci:IN Student Society of Cognitive Science at Yonsei University  | 2017 - 2018 |
| Military service obligation at the police agency Seobu Police Station, Daejeon, Republic of Korea  | 2013 - 2015 |

### ○ Extra-curricular Activities

|  |      |     |
|--|------|-----|
| Kavli Summer Institute in Cognitive Neuroscience (Santa Barbara, CA)   | 2022 | Jun |
| R workshop for psychological science<br>(lecturer. Do-Joon Yi, Psychology department, Yonsei University)             | 2019 | Feb |
| Computer Neuroscience Winter School<br>Korean Society for Computational Neuroscience                                 | 2018 | Feb |
| Volunteer staff in KSCS (The Korean Society for Cognitive Science) annual<br>spring conference at Sogang University. | 2013 | May |

### ○ **Mentoring**

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|--|-------------|
| Ehigialoya Okojie – Currently a PhD student in Neuroscience at UNC<br>Chapel Hill (Advised by Dr. Charlotte Boettiger)   | 2023 - 2024 |
| Mentoring Ehi throughout post-baccalaureate Research Education<br>Program ( <a href="#">PREP</a> ), investigating functional connectivity between brain<br>regions under category-selective attention and distraction condition.                                   |             |
| Jake Ferreira – Currently an Analytics Services Associate at Veeva Systems   | 2023 - 2024 |
| Mentoring Jake with undergraduate thesis project (The Ohio State<br>University), investigating how human visual system maintain<br>phenomenological stability across eye movement, using a blanking<br>paradigm.   |             |
| Zihan Bai – Currently a research assistant / lab manager in Dr. Elizabeth<br>Goldfarb's lab  | 2019 - 2022 |
| Mentoring undergraduate thesis project (The Ohio State University),<br>investigating the role of background scene context on object-location<br>binding. Together, we conducted three behavioral experiments and<br>presented the results as a poster at 2022 VSS. |             |