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Work Experience



Post-doctoral Research Associate
Dartmouth College, Hanover, New Hampshire, USA

2025 Aug -

Advisor: [Viola Störmer](#)

Education



The Ohio State University, Columbus, Ohio, USA
 Ph.D. in Cognitive Neuroscience, Dept of Psychology
 M.A. in Cognitive Neuroscience, Dept of Psychology

2020 - 2025

Advisor: [Julie D. Golomb](#)



Yonsei University, Seoul, South Korea
 M.A. in Cognitive Science, Dept of Psychology

2018 - 2020

Advisor: [Sang Chul Chong](#)

Yonsei University, Seoul, South Korea
 B.A in Psychology (Joint major in Cognitive Science)

2012 - 2018

Publications & Preprints *: (co-)first author; ♡: corresponding author

Choi, Y. M ♡, 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 *, Chiu, T. Y., Ferreira, J. & Golomb, J. D ♡. (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 *, **Choi, Y. M.**, Dube, B., & Golomb, J. D ♡. (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 ♡, & 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*, Cho, J., & Chong, S. C[¶]. (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, 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*, & Chong, S. C[¶]. (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 * : (co-)first author; ¶ : corresponding author

Choi, Y. M[¶], Chiu, T. Y. & Golomb, J. D. (under revision). Post-Saccadic Disruption of Semantic Category Information in Naturalistic Scenes.

Choi, Y. M* & Golomb, J. D[¶]. (in preparation). Distinct Forms of Pre-saccadic Remapping in the Human Brain: A Voxel-Wise Predictive Encoding Model Approach

▪ Invited Talks

Choi, Y. M. (Mar 2026). Cross-Modal Effects of Sustained Auditory Attention. *Science and Art of Human-AI Systems Lab (SARHAS Lab)*; PI: Dr. Nikhil Singh, Computer Science Department, Dartmouth College, New Hampshire, USA. (In-person)

Choi, Y. M. (Dec 2025). Human Visual Perception Across Eye Movements: Predictive Remapping of Receptive Fields. Department of Psychology, Chungbuk National University, South Korea (in-person)

Choi, Y. M. (Jun 2025) Through the Eyes of the Brain: Receptive Field Remapping in the Human Visual Cortex. [CCBS Undergraduate Summer Institute](#), The Ohio State University, Ohio, USA (in-person)

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)

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. (In-person)

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)

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)

▪ 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., Störmer, V. (May 2026). Sustained Auditory Spatial Attention Facilitates Visual Processing. *the Vision Sciences Society annual conference* in Florida, USA.

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.

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.

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).

▪ Academic Mentoring Experience

- [Natalia Schmitter-Emerson](#)** – Currently a research assistant in Dartmouth College. 2025 -
Mentoring undergraduate research assistant in develop independent project on multisensory perception.
- [Ehigialoya Okojie](#)** – Currently a PhD student in Neuroscience at UNC Chapel Hill (Advised by Dr. Charlotte Boettiger) 2023 - 2024
Mentoring Ehi throughout post-baccalaureate Research Education Program ([PREP](#)), investigating functional connectivity between brain regions under category-selective attention and distraction condition.
- [Jake Ferreira](#)** – Currently a Lead Associate at Veeva Systems 2023 - 2024
Mentoring Jake with undergraduate thesis project (The Ohio State University), investigating how human visual system maintain phenomenological stability across eye movement, using a blanking paradigm (Choi et al., 2025, Cognition).
- [Zihan Bai](#)** – Currently a PhD student at New York University 2019 - 2022
Mentoring undergraduate thesis project (The Ohio State University), investigating the role of background scene context on object-location binding. Together, we conducted three behavioral experiments and presented the results as a poster at 2022 VSS.

▪ Awards & Honors

- Best oral presentation at the [Center for Cognitive and Behavioral Brain Imaging research day](#), 2023, Columbus, Ohio, USA 2023 Dec
- 1st award from poster presentations for a Social and Behavioral Sciences at the [Edward F. Hayes Advanced Research Forum](#). 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-Aug
- Primary Advisor: Dr. Julie D. Golomb		
- Visiting Advisor: Dr. Deyue (Dion) Yu		
The Center for Cognitive and Brain Sciences, The Ohio State University		
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

Korean American Scientists and Engineers Association (KSEA), Ohio chapter, Web master	2025 -
Center for Cognitive and Behavioral Brain Imaging (CCBBI) Student Group , 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 – 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 (lecturer. Do-Joon Yi, Psychology department, Yonsei University)	2019	Feb
Computer Neuroscience Winter School Korean Society for Computational Neuroscience	2018	Feb

Volunteer staff in KSCS (The Korean Society for Cognitive Science) annual spring conference at Sogang University.

2013 May