

# Yong Min Choi

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## Research Interests

Visual perception, eye movement, perceptual stability, scene perception, ensemble representation, attention

## Education Backgrounds

Ohio State University	Columbus, Ohio, USA Ph.D. candidate in Cognitive Neuroscience, Dept of Psychology M.S. in Cognitive neuroscience, Dept of Psychology Advisor: <a href="#">Julie D. Golomb</a>	2020 - 2025 (expected)
Yonsei University	Seoul, Republic of Korea (South Korea) M.S. in Cognitive Science, Advisor: <a href="#">Sang Chul Chong</a>	2018 - 2020
Yonsei University	Seoul, Republic of Korea (South Korea) B.S in Psychology (Joint major in Cognitive Science)	2012 - 2018

## Publications & Preprints

*\*: (co-)first author; <sup>‡</sup>: corresponding author*

Narhi-Martinez, W<sup>\*</sup>, **Choi, Y. M.**, Dube, B., & Golomb, J. D<sup>‡</sup>. (accepted pending minor revisions). Allocation of Spatial Attention in Human Visual Cortex as a Function of Endogenous Cue Validity. *Cortex*

**Choi, Y. M<sup>\*</sup>**, Chiu, T. Y., Ferreira, J. & Golomb, J. D<sup>‡</sup>. (2024). Maintaining Visual Stability in Naturalistic Scenes. Preprint on *PsychArXiv*: <https://doi.org/10.31234/osf.io/m9wa4>

**Choi, Y. M<sup>\*‡</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>‡</sup>. (2024). Ensemble Memory of a Scene Interacts With Current Perception Regardless of Attentional Requirements. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.

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>‡</sup>. (2020). Effects of Selective Attention on Mean-Size Computation: Weighted Averaging and Perceptual Enlargement. *Psychological Science*, 0956797620943834.

Manuscripts under review/in preparation \*: (co-)first author; †: corresponding author

**Choi, Y. M\***, Chiu, T. Y., Ferreira, J. & Golomb, J. D<sup>†</sup>. (under review). Maintaining Visual Stability in Naturalistic Scenes: The roles of trans-saccadic memory and default assumptions.

**Choi, Y. M\***, Chiu, T. Y. & Golomb, J. D<sup>†</sup>. (in preparation). Behavioral and Neural Correlates of Impaired Post-Saccadic Scene Perception

Conference oral presentation

**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 2021.

**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 presentation

**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, 2023, 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, 2023, 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, 2023, 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

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

## Scholarships

Graduate Excellence Award	2023	May-Aug
SBS Graduate Scholarship Award	2022	May-Aug
University Fellowship		
Scholarship funded by Brain Korea 21+, Ministry of Education, South Korea.	2019	Mar-Aug
Scholarship funded by Yonsei University for accelerated bachelor / master's scholarship program.	2018 - 2019	

## Extra-curricular Activities

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) Student Group, Technical Director.	2022 - 2023
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
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
Volunteer staff in KSCS (The Korean Society for Cognitive Science) annual spring conference at Sogang University.	2013    May

## Mentoring

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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 ( <a href="#">PREP</a> ), investigating functional connectivity between brain 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 University), investigating how human visual system maintain phenomenological stability across eye movement, using a blanking paradigm.	
Zihan Bai – Currently a research assistant / lab manager in Dr. Elizabeth Goldfarb's lab	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.	