
Yaelan Jung

Department of Psychology
Princeton University
Princeton, NJ 08540, USA
Email: yaelanj@princeton.edu

Academic positions and education

2021 – Current	Postdoc Department of Psychology, Emory University, GA, USA
2020 – 2021	Postdoc Department of Psychology, Princeton University, NJ, USA
2014 – 2019	Ph.D in Psychology University of Toronto, Toronto, ON, Canada
2011 – 2013	Master in Cognitive Science Yonsei University, Seoul, Korea
2007 – 2011	B.A. in Psychology Yonsei University, Seoul, Korea

Awards & Scholarship

2018	The Friends of Patrick Brain Research Award (CAD \$2000)
2018–2019	Doctoral completion award, Department of Psychology, University of Toronto
2017	Computational Cognitive Neuroscience (CCN), Student Travel Award (USD \$500)
2017	Faculty of Art and Science, University of Toronto, Conference Grant (CAD \$500)
2016	Vision Science Society, Student Travel Award (USD \$500)
2015	School of Graduate Studies, University of Toronto, Conference Grant (CAD \$500)
2014–2018	Ontario Trillium Scholarship (CAD \$168000)
2011–2012	BK21 Participation Scholarship Ministry of Education, Science, and Technology, Korea
2009	Scholarship for Exchange Student Program (USD \$7000) Mirae Asset, Park Hyeon Joo Foundation
2008	Awarded the Highest Honors, Yonsei University, Seoul, Korea
2007	Awarded the Honors, Yonsei University, Seoul, Korea

Manuscripts

Jung, Y., Forest, T. A., Walther, D. B., & Finn, A. S. *in preparation*, Top-down modulation of visual cortex in adults and children.

Jung, Y., Gomez, J., & Emberson L.L., *under revision*, Visual development from infancy through childhood: contributions (and future directions) from neuroscience (review paper).

Publications

Jung, Y., & Walther, D. B. (2021), Task dependence of neural representations of global scene properties but not scene categories in the prefrontal cortex. *Journal of Neuroscience*.

- Jung, Y.**, Walther, D. B. & Finn, A. S. (2020), Automatic categorical abstraction during visual statistical learning in adults and children. *Developmental Science*, e13072.
- Jung, Y.**, Larsen, B., & Walther, D. B. (2018). Modality-independent coding of scene categories in prefrontal cortex. *Journal of Neuroscience*, 38(26):5969-5981.
- Jung, Y.**, Larsen, B., & Walther, D. B. (2018). Using decoding error patterns to trace the neural signature of auditory scene perception. Proceedings of the 8th International Workshop on Pattern Recognition in Neuroimaging, Singapore
- Jung, Y.**, Kang, M.S., & Chong, S.C. (2016). The effect of attention on initial dominance in binocular rivalry. *Perception*, 45(5), 492 - 504.
- Jung, Y.**, & Chong, S.C. (2014). The effect of attention on visible and invisible adapters. *Perception*, 43(6), 549-568.
- Jung, Y.**, & Chong, S. C. (2014). Verbalization can impair the repetition priming for faces. *Journal of Cognitive Psychology*, 26(4), 413-422.
- Kim, K.-J., Eo, K.-Y., **Jung, Y.**, Kim, S.-O., & Cho, S.-B (2013). "Evolutionary conditions for the emergence of robotic theory of mind with multiple goals," *IEEE Workshop on Robotic Intelligence in Informationally Structured Space (RiiSS)*, pp. 48-54, 2013.03

Conference presentations. (* talk presentation)

- ***Jung, Y.**, Forest, T. A., Walther, D. B., & Finn, A. S. (2021, April). Top-down modulation of visual cortex in adults and children. *At Society for Research in Child Development (SRCD)*. [Virtual conference]. Talk.
- ***Jung, Y.**, Forest, T. A., Walther, D. B., & Finn, A. S. (2020, June). Top-down modulation of visual cortex in adults and children. *At Vision Science Society*. [Virtual conference]. Talk.
- Jung, Y.**, Forest, T. A., Walther, D. B., & Finn, A. S. (2019, August). Top-down modulation of sensory cortex in adults and children. *At Flux*. Poster.
- Jung, Y.**, & Walther, D.B. (2019, May). Neural coding of non-visual percepts inferred from images of natural scene. *At Vision Science Society*. Poster.
- ***Jung, Y.**, Walther, D. B., & Finn, A. S. (2019, May). Automatic categorical abstraction during statistical learning in adults and children. Toronto Area Memory Group, ON, Toronto. Talk.
- Jung, Y.**, & Walther, D.B (2018, Nov). Decoding thermal sensations from human brain activity. *At Society for Neuroscience*. Poster.
- ***Jung, Y.**, Larsen, B., & Walther, D. B. (2018, June). Using decoding error patterns to trace the neural signature of auditory scene perception. *At Pattern Recognition in Neuroimaging (PRNI)*. Talk.
- Jung, Y.**, Walther, D. B., & Finn, A. S. (2018, May). Automatic categorical abstraction during visual statistical learning in children and adults. *At Vision Science Society*. Poster.
- Jung, Y.**, Walther, D. B., & Finn, A. S. (2018, March). Statistical learning of categorical regularities in adults and children. *At Cognitive Neuroscience Society (CNS)*. Poster
- Jung, Y.**, Larsen, B., & Walther, D. B. (2018, Feb). Modality-independent coding of scene categories in prefrontal cortex. *At Lake Ontario Visionary Establishment (LOVE)*. Poster.
- Jung, Y.**, Larsen, B., & Walther, D. B. (2017, Sep). Modality-independent coding of concepts in prefrontal cortex. *At Computational Cognitive Neuroscience (CCN)*. Poster.
- Jung, Y.**, Larsen, B., & Walther, D. B. (2017, June). Modality-independent coding of concepts in prefrontal cortex. *At Pattern Recognition in Neuroimaging (PRNI)*. Poster.
- Jung, Y.**, Larsen, B., & Walther, D. B. (2017, May). Discriminating multimodal from amodal representations of scene categories using fMRI decoding. *At Vision Science Society*. Poster.

***Jung, Y.**, Larsen, B., & Walther, D. B. (2016, May). Conceptual representations of scene categories in prefrontal cortex transcend sensory modalities. *At Vision Science Society*. Talk.

***Jung, Y.**, Larsen, B., & Walther, D. B. (2015, Oct). Conceptual representations of scene categories in prefrontal cortex transcend sensory modalities. *At Society for Neuroscience*. Talk.

Jung, Y., Larsen, B., & Walther, D. B. (2015, June). Decoding the neural representations of real-world soundscapes. In International Conference on Perceptual Organization hosted by the Center for Vision Research at York University. Poster

Jung, Y., Kang, M.S., & Chong, S.C. (2014, May). Effect of attention on the initiation of binocular rivalry. *At Vision Sciences Society*. Poster.

EO, K.Y., Cha, O., **Jung, Y.** & Chong, S.C. (2014, May). The relationship between vividness of visual imagery and indirect size-measurements of the visual cortex. *At Vision Sciences Society*. Poster.

Jung, Y. & Chong, S.C. (2013, May). The effect of spatial attention on adaptation induced by visible and invisible stimuli. *At Vision Sciences Society*. Poster.

Jung, Y. R. & Chong, S. C. (2012, July). Visibility modulates the effect of spatial attention. *At Asia-Pacific Conference on Vision*. Poster.

Jung, Y. R. & Chong, S. C. (2012, May). The effect of verbalization on repetition priming for faces. *At Vision Sciences Society*. Poster.

Other talks & presentations

- 2019 Invited talk, Epstein lab, University of Pennsylvania
- 2019 Invited talk, Baby lab, Princeton University
- 2018 Invited talk, Nancy Kanwisher's lab, MIT
- 2018 Development Interest Group (DIG), Data Blitz, University of Toronto
- 2015 Graduate Led Academic Seminar Series (GLASS), University of Toronto
- 2015 Ebbinghaus Empire Meeting: Data Blitz, University of Toronto

Programming & data analysis skills

fMRI AFNI, FreeSurfer, SUMA, MVPA (Cosmo toolbox in Matlab), Brainiak, fMRIprep.

Program language Matlab, R, Shell, Inquisit (for online testing)
Python (machine learning using skitlearn), Java (jpsych)

Academic experiences

Mentoring

- 2018-2019 Aria Wills, Maria Mazaharally (Volunteer research assistant)
- 2018 Summer Hailey den Elzen (Summer Research program at Wellesley college)
- 2017-2018 Lora Stepanian (Research Opportunity Program student)
- 2016-2017 Ming Ma (Research Opportunity Program student)

Teaching assistant

2014-19	Introduction to Cognitive Psychology, Learning and Plasticity, Perception and Sensation, Statistics I and II, Intro to Development Psychology (University of Toronto, Canada)
2013	Modern Society and Psychology (Yonsei University, Korea)
2011	Introduction to Cognitive Science (Yonsei University, Korea)

Research assistant/associate

2013-2014	VCC Lab, Yonsei University, Seoul, Korea
2010-2011	VCC Lab, Yonsei University, Seoul, Korea
2009	Vision Research Lab (P.I: Bruce Bridgeman) University of California Santa Cruz, CA, USA

References

Daniel Dilks

Associate Professor, Department of Psychology, Emory University
Email: dilks@emory.edu

Dirk Bernhardt-Walter

Associate Professor, Department of Psychology, University of Toronto
Email: bernhardt-walther@psych.utoronto.ca

Amy S. Finn

Assistant Professor, Department of Psychology, University of Toronto
Email: finn@psych.utoronto.ca