

## Yaelan Jung

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### Academic positions and education

2020 – present	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

### Publications

**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

## In Preparation

**Jung, Y.,** & Walther, D. B., *under revision*, Task dependence of neural representations of global scene properties but not scene categories in the prefrontal cortex.

**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., *in preparation*, Visual development from infancy through childhood: contributions (and future directions) from neuroscience (review paper).

## 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, and Brainiak), fMRIprep.

**Others** Matlab, R, Shell, Inquisit, Python, Java (familiar)

## 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**

### **Dirk Bernhardt-Walter**

Associate Professor, Department of Psychology, University of Toronto  
Email: [bernhardt-walther@psych.utoronto.ca](mailto:bernhardt-walther@psych.utoronto.ca)

### **Amy S. Finn**

Assistant Professor, Department of Psychology, University of Toronto  
Email: [finn@psych.utoronto.ca](mailto:finn@psych.utoronto.ca)

### **Lauren Emberson**

Assistant Professor, Department of Psychology, Princeton University  
Email: [lauren.emberson@princeton.edu](mailto:lauren.emberson@princeton.edu)