

# Hee Yeon Im

## ACADEMIC APPOINTMENTS

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- **Assistant Professor**

University of British Columbia, Vancouver, BC, Canada  
Department of Psychology

- **Instructor (2019-2020)**

Boston Children's Hospital And Harvard Medical School, Boston, MA, USA  
Department of Pediatrics, Fetal-Neonatal Neuroimaging and Developmental Science Center

- **Postdoctoral Research Fellow (2015-2019)**

Massachusetts General Hospital And Harvard Medical School, Charlestown, MA, USA  
Department of Radiology, Martinos Center for Biomedical Imaging

- **Postdoctoral Research Associate (2014-2015)**

Brown University, Providence, RI, USA  
Department of Cognitive, Linguistics, & Psychological Sciences

## EDUCATION

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- **Johns Hopkins University, Baltimore, MD, USA**

Ph.D in Psychological & Brain Sciences (2013)

- **Yonsei University, Seoul, Korea**

M.Sc in Cognitive Science (2008)

- **Yonsei University, Seoul, Korea**

B.S. in Psychology (2006)

## PUBLICATIONS

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- **Im, H.Y.**, Cushing, C., Ward, N., & Kveraga, K. (in press). Differential neurodynamics and connectivity in the dorsal and ventral visual pathways during perception of emotional crowds and individuals: a MEG study. *Cognitive, Affective, and Behavioral Neuroscience*.
- **Im, H.Y.**, Tiurina, N.A., & Utochkin, I.S. (2020). An explicit investigation of the roles that feature distributions play in rapid visual categorization. *Attention, Perception, & Psychophysics*, 83, 1050-1069.
- Kveraga, K., **Im, H.Y.**, Ward, N., & Adams, R.B.Jr. (2020). Fast saccadic and manual responses to faces presented to the koniocellular visual pathway. *Journal of Vision*, 20, 9.
- Cushing, C., **Im, H.Y.**, Adams, R.B.Jr., Ward, N., & Kveraga, K. (2019). Magnocellular and parvocellular pathway contributions to facial threat cue processing. *Social, Cognitive and Affective Neuroscience*, 14, 151-162.
- Adams, R.B.Jr., **Im, H.Y.**, Cushing, C., Boshyan, J., Ward, N., Albohn, D.N., & Kveraga, K. (2019). Differential magnocellular versus parvocellular pathway contributions to the combinatorial processing of facial threat. *Progress in Brain Research*, 247, 71-87.
- Kveraga, K., De Vito, D., Cushing, C., **Im, H.Y.**, Albohn, D.N., & Adams, R.B.Jr. (2019). Spatial

- and feature-based attention to expressive faces. *Experimental Brain Research*, 4, 967-975.
- **Im, H.Y.**, Adams, R.B.Jr., Cushing, C., Boshyan, J., Ward, N., & Kveraga, K. (2018). Sex-related differences in behavioral and amygdalar responses to compound facial threat cues. *Human Brain Mapping*, 39, 2725-2741.
  - Cushing, C., **Im, H.Y.**, Adams, R.B.Jr., Ward, N., Albohn, N.D., Steiner, T.G., & Kveraga, K. (2018). Neurodynamics and connectivity during facial fear perception: The role of threat exposure and signal congruity. *Scientific Reports*, 8, 2776.
  - **Im, H.Y.**, Albohn, N.D., Steiner, T.G., Cushing, C., Adams, R.B.Jr., & Kveraga, K. (2017). Ensemble coding of crowd emotion: Differential hemispheric and visual stream contributions. *Nature Human Behaviour*, 1, 828-842.
  - **Im, H.Y.**, Adams, R.B.Jr., Boshyan, J., Ward, N., Cushing, C., & Kveraga, K. (2017). Observer's anxiety facilitates magnocellular processing of clear facial threat cues, but impairs parvocellular processing of ambiguous facial threat cues. *Scientific Reports*, 7, 15151.
  - **Im, H.Y.**, Chong, S.C., Sun, J., Steiner, T.G., Albohn, D.N., Adams, R.B.Jr., & Kveraga, K. (2017). Cross-cultural effects on ensemble coding of emotion in facial crowds. *Culture and Brain*, 5, 125-152.
  - **Im, H.Y.**, Bédard, P., & Song, J-H. (2016). Long lasting attentional-context dependent visuomotor memory. *Journal of Experimental Psychology: Human Perception & Performance*, 42, 1269-1274.
  - **Im, H.Y.**, Zhong, S., & Halberda, J. (2016). Perceptual groups as a unit for rapid extraction of approximate number of elements in random dot arrays. *Vision Research*, 126, 291-307.
  - Odic, D., **Im, H.Y.**, Eisinger, R., Ly, R., & Halberda, J. (2016). PsiMLE: A maximum-likelihood approach to estimating psychophysical scaling and variability more reliably, efficiently, and flexibly. *Behavioral Research Methods*, 48, 445-462.
  - **Im, H.Y.**, Bédard, P., & Song, J-H. (2015). Encoding attentional-states during visuomotor learning. *Journal of Vision*, 15, 1-16.
  - **Im, H.Y.**, Park, W., & Chong, S.C. (2015). Ensemble statistics as a unit of selection. *Journal of Cognitive Psychology*, 27, 114-127.
  - **Im, H.Y.**, & Chong, S.C. (2014). Mean size as a unit of visual working memory. *Perception*, 43, 663-676.
  - **Im, H.Y.**, & Halberda, J. (2013). The effects of sampling and internal noise on the representation of ensemble average size. *Attention, Perception, & Psychophysics*, 75, 278-286.
  - **Im, H.Y.**, & Chong, S.C. (2009). Computation of mean size is based on perceived size. *Attention, Perception, & Psychophysics*, 71, 375-384.
  - Park, K.M., Cha, O., Kim, S., **Im, H.Y.**, Chong, S.C., (2007). The Influence of Depth Context on Blind Spot Filling-in. *Korean Journal of Cognitive Science*, 18, 351-370.

## FELLOWSHIPS AND ACADEMIC AWARDS

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| • <b>Ecor Tosteson Postdoctoral Fellowship Award For Medical Discovery (\$ 74,386)</b> | <b>2018</b> |
| Role: Principal Investigator, Massachusetts General Hospital                           |             |

• **Neuroimaging Funding Initiative For Research Fellows (\$ 12,000)**

2015

Role: Principal Investigator, Martinos Center For Biomedical Imaging

• **Center For Vision Research Fellowship (\$ 13,742)**

2014

Role: Principal Investigator, Brown University

• **Collaborative Research Award, Johns Hopkins University**

2013

This award supports interdisciplinary research work proposed by graduate students from different laboratories.

• **Mary Ainsworth Research Award, Johns Hopkins University**

2012

This award recognizes a female graduate student who has demonstrated exceptional scholarly progress in research.

## TEACHING EXPERIENCES

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• **Section Instructor:**

Foundations of Mind	Johns Hopkins University	Spring 2011
Functional Human Neuroanatomy	Johns Hopkins University	Spring 2009

• **Invited guest Lecturer:**

Cognitive Neuroscience: Social Vision	Busan University (Korea)	Spring 2019
Perception and Mind: Scene Perception	Brown University	Spring & Fall 2014

• **Teaching Assistant**

Developmental Psychology	Johns Hopkins University	Fall 2010
Psychology and Law: Clinical Applications	Johns Hopkins University	Spring 2010
Sensation and Perception	Johns Hopkins University	Fall 2009
Introduction to Cognitive Science	Yonsei University (Korea)	Fall 2007

## AD HOC REVIEWING

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Acta Psychologica; Attention, Perception, and Psychophysics; European Journal of Neuroscience; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: General; Consciousness and Cognition; PLoS One; Journal of Vision; Vision Research; Visual Cognition; Korean Society for Cognitive and Biological Psychology; Neuropsychologia; Frontiers in Psychology; Grant review for Israel Science Foundation; Cognitive Research: Principles and Implications

## INVITED TALKS

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Institute for Basic Science, Daegu, Korea	2019
McLean Hospital, Belmont, MA	2019
Brigham and Woman's Hospital, Boston, MA	2018
Brown University, Providence, RI	2018
Press Conference on Social Behavior at '15 Society for Neuroscience, Chicago, IL	2015
Brown University, Providence, RI	2014
MIT, Cambridge, MA	2013
Korea University, Seoul, Korea	2013

Yonsei University, Seoul, Korea

2013

**SELECTED CONFERENCE PRESENTATIONS (LAST FOUR YEARS)**

- Kveraga, K., **Im, H.Y.**, Ward, N., & Adams, R.B.Jr. (2020). Koniocellular pathway contributions to saccadic and manual responses to threat faces. Cognitive Neuroscience Society
- Yoon, H.K., **Im, H.Y.**, & Park, S. (2020). Differential encoding of dynamic objects in navigational context. Vision Sciences Society.
- **Im, H.Y.**, Adams, R.B.Jr., Cushing, C., Boshyan, J., Ward, N., & Kveraga, K. (2018). The effects of aging in neural processing of facial threat cues via magnocellular and parvocellular pathways. Poster at Vision Sciences Society.
- **Im, H.Y.**, Adams, R.B.Jr., Cushing, C., Boshyan, J., Ward, N., & Kveraga, K. (2018). Sex-related differences in behavioral and neural processing of facial threat cues via magnocellular and parvocellular pathways. Poster at Cognitive Neuroscience Society.
- **Im, H.Y.**, Cushing, C., Albohn, D.N., Steiner, T.G., Ward, N., Adams, R.B.Jr., & Kveraga, K. (2017). Neurodynamics of reading crowd emotion: Independent visual pathways and hemispheric contributions. Poster at Vision Sciences Society.
- Adams, R.B.Jr., **Im, H.Y.**, Ward, N., Boshyan, J., Cushing, C., & Kveraga, K. (2017). Trait anxiety moderates visual pathway contributions to the processing of clear versus ambiguous threat. Poster at Vision Sciences Society.
- Cushing, C., Adams, R.B.Jr., **Im, H.Y.**, Ward, N., & Kveraga, K. (2017). Differential visual pathway contributions to compound facial threat cue processing. Poster at Vision Sciences Society.
- Ward, N., De Vito, D., Cushing, C., Boshyan, J., **Im, H.Y.**, Adams, R.B.Jr., & Kveraga, K. (2017). Neurodynamics and hemispheric lateralization in threat and ambiguous negative scene recognition. Poster at Vision Sciences Society.