

# Chihye Han (Kelsey)

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## Education

<b>Johns Hopkins University</b> <i>Ph.D. in Cognitive Science, Computational Track</i> M.A. in Cognitive Science <i>Advisor: Michael F. Bonner</i>	Baltimore, MD 2020–Present 2022
<b>Korea Advanced Institute of Science and Technology</b> <i>M.S. in Electrical Engineering</i> <i>Advisor: Daeshik Kim</i>	Daejeon, Korea 2017–2019
<b>Carleton College</b> <i>B.A. in Cognitive Science, Neuroscience Concentration</i> <i>Cum laude, Honors in Music Performance</i> <i>Advisors: Kathleen G. Galotti and Roy Eleveton</i>	Northfield, MN 2009–2013

## Publications

- Han, C.** & Bonner, M.F. High-dimensional Structure Underlying Individual Differences in Naturalistic Visual Experience. *Under revision*. arXiv:[2505.12653](https://arxiv.org/abs/2505.12653)
- Park, G., **Han, C.**, Yoon, W., & Kim, D. (2020). MHSAN: Multi-Head Self-Attention Network for Visual Semantic Embedding. *2020 IEEE Winter Conference on Applications of Computer Vision (WACV)*.
- Han, C.**, Yoon, W., Kwon G., Nam, S., & Kim, D. (2019). Representation of White- and Black-Box Adversarial Examples in Deep Neural Networks and Humans: A Functional Magnetic Resonance Imaging Study. *2019 International Joint Conference on Neural Networks (IJCNN)*.
- Kwon G., **Han, C.**, & Kim, D. (2019). Generation of 3D Brain MRI Using Auto-Encoding Generative Adversarial Networks. *2019 Medical Image Computing and Computer Assisted Intervention (MICCAI)*.
- Hong, J., Li, L., **Han, C.**, Jin, B., Yang, Q., & Yang, Z. (2016). Optimizing Hadoop Framework for Solid State Drives. *2016 IEEE International Congress on Big Data (BigData Congress)*.

## Conference Presentations

### Talks

- Han, C.**, Yoon, W., Kwon G., Nam, S., & Kim, D. Representation of White- and Black-Box Adversarial Examples in Deep Neural Networks and Humans: A Functional Magnetic Resonance Imaging Study. *International Joint Conference on Neural Networks*; Jul 14–19, 2019; Budapest, Hungary.

### Posters

- Han, C.**, Gauthaman, R.M. & Bonner, M. F. Behavioral relevance of high-dimensional neural representations. *Cognitive Computational Neuroscience*; Aug 12–15, 2025; Amsterdam, The Netherlands.
- Han, C.** & Bonner, M. F. High-dimensional structure underlying individual differences in naturalistic visual experience. *Vision Sciences Society*; May 16–20, 2025; St. Petersburg, FL.
- Han, C.** & Bonner, M. F. High-dimensional latent manifolds and individual differences in naturalistic movie viewing. *Cognitive Computational Neuroscience*; Aug 12–15, 2024; Boston, MA.
- Han, C.** & Bonner, M. F. High-dimensional latent manifolds as predictors of individual differences in naturalistic movie viewing. *Vision Sciences Society*; May 17–22, 2024; St. Petersburg, FL.

**Han, C.**, Magri, C., & Bonner, M. F. Quantifying the latent semantic content of visual representations. *Vision Sciences Society*; May 21–26, 2021; Virtual.

**Han, C.**, Yoon, W., Nam, S., & Kim, D. Neural Representation of Adversarial Images: An fMRI Study. *Women in Machine Learning Workshop*; Dec 3, 2018; Montreal, Canada.

Park, J., **Han, C.**, Kim, M., & Kim, D. End-to-End rs-fMRI Data Classification Using Deep Convolutional and Long Short-Term Memory Networks. *Organization for Human Brain Mapping*; Jun 17–21, 2018; Singapore.

Kim, M., **Han, C.**, Park, J., & Kim, D. T1 Image Synthesis with Deep Convolutional Generative Adversarial Networks. *Organization for Human Brain Mapping*; Jun 17–21, 2018; Singapore.

## Invited Talks

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<b>Johns Hopkins University, OneNeuro Student Talk</b>	Oct 2025
<b>Johns Hopkins University, CogSci Brown Bag Talk</b>	Apr 2025
<b>KAIST, EE635: Functional Neuroimaging</b>	Oct 2019
<b>PsyGrammar, Cognitive Science Open Talk</b>	Sep 2019

## Honors & Awards

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<b>Elsevier/Vision Research Travel Award (V-VSS)</b>	2021
<b>National Scholarship (KAIST)</b>	2017–2019
<b>Student Travel Award (International Joint Conference of Neural Networks)</b>	2019
<b>Student Travel Award (Women in Machine Learning)</b>	2018
<b>Best Paper Award (International Congress on Big Data)</b>	2016
<b>Value Creator Award (Samsung Human Resources Development Center)</b>	2014
<b>Sixma Xi Nomination (Carleton College)</b>	2012
<b>Robert J. Kolenkow and Robert A. Reitz Fund for Undergraduate Research</b>	2010

## Teaching

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<b>Teaching Assistant, Johns Hopkins University</b>	
Computational Cognitive Neuroscience of Vision	Spring 2024
Cognitive Neuropsychology	Fall 2021, Fall 2023
Cognitive Neuropsychology in Vision	Spring 2022
Cognitive Neuroscience	Spring 2021
<b>Teaching Assistant, KAIST</b>	
Electronics Design Lab	Spring 2019
Neural Networks	Fall 2018
<b>Teaching Assistant, Carleton College</b>	
Music Theory I & II	Fall–Winter 2012

## Professional Experience

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<b>LG AI Research</b>	Seoul, Korea
<i>AI R&amp;D Strategist</i>	Sep 2022–Jun 2023
<b>KAIST</b>	Daejeon, Korea
<i>Research Intern, hosted by Dr. Sang Ah Lee</i>	Jan–May 2020
<b>OBELAB</b>	Seoul, Korea
<i>Analysis Engineer</i>	Jan–May 2017
<b>Samsung Electronics</b>	Seoul, Korea
<i>Software Engineer</i>	Feb 2014–Apr 2016