

# Chihye Han (Kelsey)

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EDUCATION	<b>Johns Hopkins University</b>	Baltimore, MD
	Ph.D. in Cognitive Science. Computational Track.	2020–Present
	M.A. in Cognitive Science. <i>Advisor: Michael F. Bonner.</i>	2020–2022
	<b>Korea Advanced Institute of Science and Technology</b>	Daejeon, Korea
	M.S. in Electrical Engineering. <i>Advisor: Daeshik Kim.</i>	2017–2019
	<b>Carleton College</b>	Northfield, MN
	B.A. in Cognitive Science. Neuroscience Concentration. Honors in Music Performance, <i>Cum laude</i> . <i>Advisors: Kathleen G. Galotti and Roy Eleveton.</i>	2009–2013
PUBLICATIONS	<b>Han, C.</b> & Bonner, M.F. High-dimensional Structure Underlying Individual Differences in Naturalistic Visual Experience. arXiv: <a href="#">2505.12653</a>	
	Park, G., <b>Han, C.</b> , Yoon, W., & Kim, D. (2020). MHSAN: Multi-Head Self-Attention Network for Visual Semantic Embedding. <i>2020 IEEE Winter Conference on Applications of Computer Vision (WACV)</i> . doi: 10.1109/WACV45572.2020.9093548	
	<b>Han, C.</b> , 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. <i>2019 International Joint Conference on Neural Networks (IJCNN)</i> . doi: 10.1109/IJCNN.2019.8851763	
	Kwon G., <b>Han, C.</b> , & Kim, D. (2019). Generation of 3D Brain MRI Using Auto-Encoding Generative Adversarial Networks. <i>2019 Medical Image Computing and Computer Assisted Intervention (MICCAI)</i> . doi: 10.1007/978-3-030-32248-9_14	
	Hong, J., Li, L., <b>Han, C.</b> , Jin, B., Yang, Q., & Yang, Z. (2016). Optimizing Hadoop Framework for Solid State Drives. <i>2016 IEEE International Congress on Big Data (Big-Data Congress)</i> . doi: 10.1109/BigDataCongress.2016.11	
CONFERENCE PRESENTATIONS	<b>Han, C.</b> & Bonner, M. F. High-dimensional structure underlying individual differences in naturalistic visual experience. <i>Vision Sciences Society</i> ; 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.

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

<b>INVITED TALKS</b>	KAIST, EE635: Functional Neuroimaging.	Oct 2019
	PsyGrammar, Cognitive Science Open Talk.	Sep 2019

<b>EXPERIENCE</b>	Research Intern, KAIST. Hosted by Dr. Sang Ah Lee.	Jan–May 2020
	Analysis Engineer, OBELAB.	Jan–May 2017
	Software Engineer, Samsung Electronics.	Feb 2014–April 2016

<b>TEACHING ASSISTANT</b>	Computational Cognitive Neuroscience of Vision, JHU.	Spring 2024
	Cognitive Neuropsychology, JHU.	Fall 2021, 2023

Cognitive Neuropsychology in Vision, JHU.

Spring 2022

Cognitive Neuroscience, JHU.

Spring 2021

Electronics Design Lab, KAIST.

Spring 2019

Neural Networks, KAIST.

Fall 2018

Music Theory I & II, Carleton College.

Fall–Winter 2012