

Chihye Han (Kelsey)

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EDUCATION

Johns Hopkins University

Ph.D. in Cognitive Science
Computational Cognitive Science Track
PI: Michael F. Bonner

Baltimore, MD
Aug 2020–Present

Korea Advanced Institute of Science and Technology

M.S. in Electrical Engineering
PI: Daeshik Kim

Daejeon, Korea
Sep 2017–Sep 2019

Carleton College

B.A. in Cognitive Science
Neuroscience concentration
PIs: Kathleen G. Galotti, Roy Elevanton

Northfield, MN
Sep 2009–June 2013

PUBLICATIONS

Chihye Han, Caterina Magri, Michael Bonner, “Quantifying the latent semantic content of visual representations,” *Journal of Vision*, Accepted (abstract only).

Geondo Park, **Chihye Han**, Wonjun Yoon, Daeshik Kim, “MHSAN: Multi-Head Self-Attention Network for Visual Semantic Embedding,” *IEEE Winter Conference on Applications of Computer Vision (WACV 2020)* [\[paper\]](#)

Chihye Han, Wonjun Yoon, Gihyun Kwon, Seungkyu Nam, Daeshik Kim, “Representation of White- and Black-Box Adversarial Examples in Deep Neural Networks and Humans: A Functional Magnetic Resonance Imaging Study,” *Proceedings of the International Joint Conference on Neural Networks (IJCNN)*, 2019 [\[paper\]](#)

Gihyun Kwon, **Chihye Han**, Daeshik Kim, “Generation of 3D Brain MRI Using Auto-Encoding Generative Adversarial Networks,” *International Conference On Medical Image Computing & Computer Assisted Intervention (MICCAI)* [\[paper\]](#)

Jaeki Hong, Liang Li, **Chihye Han**, Bingxu Jin, Qichao Yang, Zilong Yang, “Optimizing Hadoop Framework for Solid State Drives,” *Proceedings of IEEE International Congress on Big Data (BigData Congress)*, 2016 [\[paper\]](#)

CONFERENCE POSTERS

Chihye Han, Caterina Magri, Michael Bonner, “Quantifying the latent semantic content of visual representations,” *Vision Sciences Society (VSS 2021)*, Virtual.

Chihye Han, Wonjun Yoon, Seungkyu Nam, Daeshik Kim, “Neural Representation of Adversarial Images: An fMRI Study,” *13th Women in Machine Learning Workshop*, Montreal, Canada

Jisuk Park, **Chihye Han**, Minseon Kim, Daeshik Kim, “End-to-End rs-fMRI Data Classification Using Deep Convolutional and Long Short- Term Memory Networks”, *Organization for Human Brain Mapping 2018*, Singapore

Minseon Kim, **Chihye Han**, Jisuk Park, Daeshik Kim, “T1 Image Synthesis with Deep Convolutional Generative Adversarial Networks”, *Organization for Human Brain Mapping 2018*, Singapore

Jisuk Park, **Chihye Han**, Sun Mi Park, Seungkyu Nam, Dae-Shik Kim, “Gender and age classification based on Long Short-Term Memory during resting state fMRI,” *Society for Neuroscience Annual Meeting (SfN) 2017*, Washington DC, USA

EXPERIENCE

Research Intern, KAIST	Jan–May 2020
Context consistency for audio-visual scene memory [osf]	
<i>PI: Sang Ah Lee</i>	
Analysis Engineer, OBELAB Inc.	Jan–May 2017
fNIRS data analysis and analysis software development	
Software Engineer, Samsung Electronics	Feb 2014–April 2016
Optimization of the Hadoop framework for solid state drives	
Solid state drive-based genome analysis solution	
<i>PI: Wooseok Chang</i>	

HONORS

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

INVITED TALKS	Chihye Han. Representation of Adversarial Examples in Deep Neural Networks and Humans.	
	<ul style="list-style-type: none"> • Invited talk at Cognitive Science Open Talk at PsyGrammar, Sep 2019. • Guest lecture for EE635: Functional Neuroimaging at KAIST, Oct 2019. 	
TEACHING	Teaching Assistant, Cognitive Neuroscience (JHU)	Spring 2021
	Teaching Assistant, Electronics Design Lab (KAIST)	Spring 2019
	Teaching Assistant, Neural Networks (KAIST)	Fall 2018
	Teaching Assistant, Music Theory I & II (Carleton College)	Fall–Winter 2012
SKILLS	Python, MATLAB, PyTorch, Bash shell scripting (proficient)	
	Java, C, Perl, LaTeX, HTML (basic)	
	Functional Neuroimaging: fMRI, fNIRS, SPM, PsychoPy, SPSS	
PROFESSIONAL MEMBERSHIPS	IEEE, Society for Neuroscience, Vision Sciences Society	