JIYEON HAN

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EDUCATION

Korea Advanced Institute of Science and Technology Ph.D. in Artificial Intelligence	*Mar 2020 - Aug 2025 (Expected Graduation Date)*
Ulsan National Institute of Science and Technology M.S. in Computer Science & Engineering	*Mar 2016 - 2020*
Ulsan National Institute of Science and Technology B.S. in Computer Science & Engineering	*Mar 2010 - Feb 2016* Rank: 3/90

PUBLICATION

J. Han[†], D. Kwon[†], G. Lee, J. Kim, J. Choi, *Enhancing Creative Generation on Stable Diffusion-based Models*, in Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025 († contributed equally).
Jun 2025

S. Lee, **J. Han**, S. Kim, J. Choi, *Diverse Rare Sample Generation with Pre-trained GANs*, in Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 2025
Feb 2025

S. Kwon, **J. Han**, C. Kang and J. Choi, *Why Do Masked Language Models Still Need Common Sense Knowledge?*, under review.
Jan 2025

J. Han, H. Choi, Y. Choi, J. Kim, J.W. Ha, J. Choi, *Rarity Score: A New Metric to Evaluate the Uncommonness of Synthesized Images*, in International Conference on Learning Representations (ICLR; Oral), 2023
May 2023

H. Jeong, **J. Han**, J. Choi , *An Unsupervised Way to Understand Artifact Generating Internal Units in Generative Neural Networks*, in The Thirty-Sixth AAAI Conference on Artificial Intelligence (AAAI), 2022
Feb 2022

A. Tousi, H. Jeong, **J. Han**, H. Choi, J. Choi, *Automatic Correction of Internal Units in Generative Neural Networks*, in Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021
Jun 2021

J. Han[†], K. Lee[†], A. Tong and J. Choi, *Confirmatory Bayesian Online Change Point Detection in the Covariance Structure of Gaussian Processes*, in the International Joint Conference on Artificial Intelligence (IJCAI), 2019 († contributed equally).
Aug 2019

J. Han and J. Choi, *Explainable Artificial Intelligence*, in Journal of the Korean Society for Noise and Vibration Engineering, 27(6), 2017, 8-13.
Nov 2017

S. Lim, **J. Han**, K. Lee and J. Choi, *Automatic Relation Extraction for Knowledge Base Population*, in Communications of the Korean Institute of Information Scientists and Engineers, 34(9), 2016, 39-46.
Sep 2016

COMPETITION

TAC-KBP Cold start KB/SF, slot-filling competition (Ranking 11 out of 17 teams)	2016

TEACHING EXPERIENCE

Deep Learning
Aug 2021 – Dec 2021

Teaching Assistant

· Deep learning models covering auto encoder, recurrent neural network, convolutional neural network, generative adversarial network.

AI-based Time Series Analysis
Mar 2021 – Jun 2021

Teaching Assistant

· Time series modeling techniques, ranging from traditional uni/multi-variate, stationary/nonstationary models to advanced non-parametric and deep learning approaches.

Deep Learning
Aug 2020 – Dec 2020

Teaching Assistant

· Deep learning models covering auto encoder, recurrent neural network, convolutional neural network, generative adversarial network.

Interpretability and Interactivity in AI
Mar 2020 – Jun 2020

Teaching Assistant

· Explainable AI methods covering model-agnostic, example-based, input attribution methods.

Star-MOOC
Aug 2018 – Dec 2018

Teaching Assistant

· Introductory and advanced machine learning lectures

Principles of Programming Languages
Mar 2018 – Jun 2018

Teaching Assistant

· SML, racket, python and probabilistic programming languages

LANGUAGES

Korean	**Mother tongue**
English	**Advanced**
	IELTS Academic overall 7.0

INTERESTS

Current research interests include creativity in generative models, fairness in AI, change point detection in time series, knowledge base population in language models, cognitive science.