

JUNSOO HA

Seoul, Korea

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RESEARCH INTERESTS

Theoretical deep learning and differentiable games
Implicit biases and regularization in deep learning

EDUCATION

Seoul National University

Master of Science in Artificial Intelligence
Advisor: Prof. Gunhee Kim

Seoul, Korea

Sep. 2020 - Aug. 2023

Hanyang University

Bachelor of Science in Software
Bachelor of Science in Mathematics
Graduated with High Distinction

Seoul, Korea

Mar. 2013 - Aug. 2020

GPA: 4.08 / 4.5

PUBLICATIONS

On Convergence of Lookahead in Smooth Games

Junsoo Ha, Gunhee Kim

International Conference on Artificial Intelligence and Statistics (AISTATS), 2022

A Neural Dichlet Process Mixture Model for Task-Free Continual Learning

Soochan Lee, Junsoo Ha, Dongsu Zhang, Gunhee Kim

International Conference on Learning Representations (ICLR), 2020

Harmonizing Maximum Likelihood with GANs for Multimodal Conditional Generation

Soochan Lee, Junsoo Ha, Gunhee Kim

International Conference on Learning Representations (ICLR), 2019

RESEARCH & INDUSTRIAL EXPERIENCE

Unknot Inc.

Research Scientist

Seoul, Korea

Aug. 2021 - Now

Built a flexible **bespoke research framework** that supports any existing financial markets

Built a highly parallelized, error-tolerant **live inference system**

Redesigned **the entire data pipeline** to support thousands of assets across the world

Developed a strong **foundation model** that could adapt to multiple financial markets

Raised **code quality standards** and introduced **automated tests** to make research reliable

SNU Vision & Learning Lab.

Research Assistant

Seoul, Korea

Nov. 2017 - Aug. 2021

Buzzni

Backend Software Engineer

Seoul, Korea

Mar. 2017 - Jul. 2017

Geopia

Full-Stack Software Engineer

Seoul, Korea

Apr. 2015 - Feb. 2017

Nexol System

Software Engineering Intern

Seoul, Korea

Jan. 2015 - Mar. 2015

LG Electronics

Software Engineering Intern

Seoul, Korea

Jul. 2014 - Aug. 2014

HONORS & AWARDS

Samsung Human-Tech Paper Award <i>Samsung Electronics</i> 2nd place; Silver Prize	2019
Distinguished Service Award <i>Hanyang University</i>	2019

RELEVANT COURSEWORKS

Graduate Convex Optimization Theory, Measure Theory
Undergraduate Deep Learning, Mathematical Statistics I-II, Abstract Algebra I-II, Topology I-II, Linear Algebra II, Ordinary Differential Equations, Advanced Calculus I, Vector Calculus, Differential Geometry, Elementary Hyperbolic Geometry

SKILLS

Machine Learning	PyTorch, Tensorflow
Python	Django, Flask, SQLAlchemy, Celery
JavaScript	ES6/7, React, Redux, Electron, Immutable
Database	MySQL, PostgreSQL, SQLite, Redis