

Sohyun An

M.S. STUDENT · KAIST AI

85, Hoegi-ro, Dongdaemun-gu, Seoul, Republic of Korea, Rep. of KOREA

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Education

UCLA (University of California Los Angeles)

PH.D. IN COMPUTER SCIENCE (INCOMING)

- Supervised by [Cho-Jui Hsieh](#)

Los Angeles, CA

Aug. 2024

KAIST (Korea Advanced Institute of Science and Technology)

M.S. IN ARTIFICIAL INTELLIGENCE

- Supervised by [Sung Ju Hwang](#)

Seoul, S.Korea

Aug. 2022 - Present

SNU (Seoul National University)

B.S. IN MATERIAL SCIENCE AND ENGINEERING (SUMMA CUM LAUDE)

Seoul, S.Korea

Mar. 2017 - Aug. 2021

Publication

One Prompt is not Enough: Automated Construction of a Mixture-of-Expert Prompts

RUOCHEN WANG*, [SOHYUN AN*](#), MINHAO CHENG, TIANYI ZHOU, SUNG JU HWANG, CHO-JUI HSIEH (*: EQUAL CONTRIBUTION)

- [paper](#)

Arxiv

2024

DiffusionNAG: Predictor-guided Neural Architecture Generation with Diffusion Models

[SOHYUN AN*](#), HAYEON LEE*, JAEHYEONG JO, SEANIE LEE, SUNG JU HWANG (*: EQUAL CONTRIBUTION)

- [paper](#)

ICLR

2024

Meta-Prediction Model for Distillation-aware NAS on Unseen Datasets

HAYEON LEE*, [SOHYUN AN*](#), MINSEON KIM, SUNG JU HWANG (*: EQUAL CONTRIBUTION)

- [paper](#)
- [code](#)

ICLR Spotlight

2023

Lightweight Neural Architecture Search with Parameter Remapping and Knowledge Distillation

HAYEON LEE*, [SOHYUN AN*](#), MINSEON KIM, SUNG JU HWANG (*: EQUAL CONTRIBUTION)

- [paper](#)

AutoML Conference

2022

Projects

Material Synthesis Using Machine Learning

Samsung Advanced Institute of Technology

Sep. 2023 - Present

AutoML with Large-scale Hyperparameter Meta-Learning

Google

2022 - 2023

Honors, Awards & Scholarships

2023	Travel Grant, for AutoML 2023	<i>AutoML 2023</i>
2023	Google Travel Grant, for ICLR 2023	<i>Google</i>
2023 (Fall)	Tuition Scholarship, KAIST support scholarship	<i>KAIST</i>
2022 (Spring)	Tuition Scholarship, KAIST support scholarship	<i>KAIST</i>
2020 (Fall)	Tuition Scholarship, Additional school scholarship	<i>SNU</i>
2020 (Fall)	Tuition Scholarship, Merit-based scholarship (50%)	<i>SNU</i>
2020 (Spring)	Tuition Scholarship, Merit-based scholarship (full amount)	<i>SNU</i>
2019 (Fall)	Tuition Scholarship, Eminence scholarship (full amount)	<i>SNU</i>
2019 (Spring)	Tuition Scholarship, Merit-based scholarship (50%)	<i>SNU</i>
2018 (Fall)	Tuition Scholarship, Merit-based scholarship (20%)	<i>SNU</i>
2018 (Spring)	Tuition Scholarship, Merit-based scholarship (50%)	<i>SNU</i>
2017 (Fall)	Tuition Scholarship, Eminence scholarship (full amount)	<i>SNU</i>
2015	Hanseong Nobel Scholarship, for a student with high potential to become an outstanding scientist in the future	<i>Hanseong Son Jae Han Scholarship Foundation</i>

Internships and Work Experiences

KAIST, Machine Learning and Artificial Intelligence Lab

RESEARCH INTERN

- Research Topic: AutoML, Neural Architecture Search, Meta-learning

Seoul, S.Korea

Apr. 2022 - Jul. 2022

Samsung Electronics Device Solution

ENGINEER

- OSAT (Outsourced Semiconductor Assembly and Test) / Advanced System Packaging
- HBM (High Bandwidth Memory) Development

Cheonan, S.Korea

Aug. 2021 - Mar. 2022

SNU, Advanced Energy Materials Lab

RESEARCH INTERN

- Research Topic: AI-Powered Exploration for Secondary Battery Material Discovery

Seoul, S.Korea

Sep. 2020 - Dec. 2020

SNU, Neuromorphic Materials and Devices Lab

RESEARCH INTERN

- Research Topic: The Effect of Resistance Drift of Phase Change Memory on Artificial Neural Networks

Seoul, S.Korea

Jul. 2020 - Sep. 2020

SK Hynix

ENGINEER INTERN

- DRAM Circuit Design Engineer (Tech Core Design)

Icheon, S.Korea

Jul. 2019 - Aug. 2019

Teaching Experiences

SNS TA at KAIST AI

KAIST

Aug. 2023 - Dec. 2023

TA for Generative Model and Unsupervised Learning (AI 618)

KAIST

Mar. 2023 - Jun. 2023

Academic Services

ICLR 2024

Reviewer
2024

NeurIPS 2023

Reviewer
2023

AutoML 2023

Reviewer
2023