Sohyun **An**

Computer Science Ph.D. Student · UCLA

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About Me

I am a Ph.D. student in the Computational Machine Learning Group at UCLA, advised by Prof. Cho-Jui Hsieh. I am passionate about democratizing AI by removing barriers of computation, data, expertise, and representation. My research spans efficient model design, automated prompt construction, and fairness across linguistic and cultural variations, producing methods that reduce costs, work in label-scarce settings, and deliver consistent performance for all users. Ultimately, I aim to make advanced AI universally accessible and adaptable to each individual's unique needs.

Education

UCLA (University of California Los Angeles) — *Los Angeles, CA*

Ph.D. in Computer Science — *Aug. 2024*

- Supervised by Cho-Jui Hsieh

KAIST (Korea Advanced Institute of Science and Technology) — *Seoul, S.Korea*

M.S. in Artificial Intelligence — *Aug. 2022 - Jul. 2024*

- Supervised by Sung Ju Hwang

SNU (Seoul National University) — *Seoul, S.Korea*

B.S. in Material Science and Engineering (Summa Cum Laude) — *Mar. 2017 - Aug. 2021*

Publication

DialectGen: Benchmarking and Improving Dialect Robustness in Multimodal Generation — *Under Review*

Yu Zhou*, Sohyun An*, Haikang Deng*, Da Yin, Clark Peng, Cho-Jui Hsieh, Kai-Wei Chang, Nanyun Peng (*: equal contribution) — *2025*

- paper

Unlabeled Data Improves Fine-Grained Image Zero-shot Classification with Multimodal LLMs — *Under Review*

Yunqi Hong, Sohyun An, Andrew Bai, Neil YC Lin, Cho-Jui Hsieh — *2025*

- paper
- code

Don't Think Longer, Think Wisely: Optimizing Thinking Dynamics for Large Reasoning Models — *Under Review*

Sohyun An, Ruochen Wang, Tianyi Zhou, Cho-Jui Hsieh — *2025*

- paper

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

Ruochen Wang*, Sohyun An*, Minhao Cheng, Tianyi Zhou, Sung Ju Hwang, Cho-Jui Hsieh (*: equal contribution) — *2024*

- paper
- code

DiffusionNAG: Predictor-guided Neural Architecture Generation with Diffusion Models — *ICLR*

Sohyun An*, Hayeon Lee*, Jaehyeong Jo, Seanie Lee, Sung Ju Hwang (*: equal contribution) — *2024*

- paper
- code

Meta-Prediction Model for Distillation-aware NAS on Unseen Datasets — *ICLR **Spotlight***

Hayeon Lee*, Sohyun An*, Minseon Kim, Sung Ju Hwang (*: equal contribution) — *2023*

- paper
- code

Lightweight Neural Architecture Search with Parameter Remapping and Knowledge Distillation — *AutoML Conference*

Hayeon Lee*, Sohyun An*, Minseon Kim, Sung Ju Hwang (*: equal contribution) — *2022*

- paper

Projects

Material Synthesis Using Machine Learning — *Samsung Advanced Institute of Technology*

Sep. 2023 - Jun 2024

AutoML with Large-scale Hyperparameter Meta-Learning — *Google*

Aug 2022 - Sep 2023

Honors, Awards & Scholarships

2024	**UCLA, Computer Science Departmental Award**
2024	**ICLR 2024, Travel Grant**
2023	**AutoML 2023, Travel Grant**
2023	**Google, ICLR 2023 Travel Grant**
2023	**ICLR, Spotlight**
2023	**KAIST, Tuition Support Scholarship**
2022	**KAIST, Tuition Support Scholarship**
2020	**Seoul National University, Merit-based scholarship**
2019	**Seoul National University, Eminence scholarship**
2018	**Seoul National University, Merit-based scholarship**
2017	**Seoul National University, Eminence scholarship**

Work Experiences

Meta, GenAI — *Menlo Park, CA*

Research Scientist Intern — *Jun. 2025 - Present*

KAIST, Machine Learning and Artificial Intelligence Lab — *Seoul, S.Korea*

Research Intern — *Apr. 2022 - Jul. 2022*

Samsung Electronics — *Cheonan, S.Korea*

Engineer — *Aug. 2021 - Mar. 2022*

Seoul National University, Neuromorphic Materials and Devices Lab — *Seoul, S.Korea*

Research Intern — *Jul. 2020 - Sep. 2020*

Teaching Experiences

SNS TA at KAIST AI — *KAIST*

Aug. 2023 - Dec. 2023

TA for AI 618: Generative Model and Unsupervised Learning — *KAIST*

Mar. 2023 - Jun. 2023