Jaehyun Nam

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Education

KAIST Sept. 2023 – Present
Ph.D. in Artificial Intelligence Daejeon, KR
- Advisor: Jinwoo Shin ↗

KAIST Mar. 2022 – Aug. 2023
M.S. in Artificial Intelligence Daejeon, KR
- Advisor: Jinwoo Shin ↗

Seoul National University Mar. 2016 – Feb. 2022
B.S. in Industrial Engineering and Mathematical Sciences (minor) Seoul, KR
- Advisor: Jaewook Lee ↗

Employment

Google Cloud AI Research Mar. 2025 – Dec. 2025
Student Researcher Sunnyvale, CA, US
- Advisor: Jinsung Yoon ↗

Research Interests

My research interests are centered on integrating large language models (LLMs) into a broad range of applications.
Keywords: LLM Agents, Tabular Learning, AI for Science

Publications

*: Equal Contribution

Preprints

[P2] MLE-STAR: Machine Learning Engineering Agent via Search and Targeted Refinement
Jaehyun Nam, Jinsung Yoon, Jiefeng Chen, Jinwoo Shin, Sercan Ö. Arık, Tomas Pfister

[P1] FontAdapter: Instant Font Adaptation in Visual Text Generation
Myungkyu Koo, Subim Kim, Sangkyung Kwak, **Jaehyun Nam**, Seojin Kim, Jinwoo Shin

Conferences

[C5] Optimized Feature Generation for Tabular Data via LLMs with Decision Tree Reasoning
Jaehyun Nam*, Kyuyoung Kim*, Seunghyuk Oh, Jihoon Tack, Jaehyung Kim, Jinwoo Shin
NeurIPS 2024

[C4] Tabular Transfer Learning via Prompting LLMs
Jaehyun Nam, Woomin Song, Seong Hyeon Park, Jihoon Tack, Sukmin Yun, Jaehyung Kim, Kyu Hwan Oh, Jinwoo Shin
COLM 2024

[C3] Data-Efficient Molecular Generation with Hierarchical Textual Inversion
Seojin Kim, **Jaehyun Nam**, Sihyun Yu, Younghoon Shin, Jinwoo Shin
ICML 2024

[C2] SuRe: Summarizing Retrievals using Answer Candidates for Open-domain QA of LLMs
Jaehyung Kim, **Jaehyun Nam**, Sangwoo Mo, Jongjin Park, Sang-Woo Lee, Minjoon Seo, Jung-Woo Ha, Jinwoo Shin
ICLR 2024

[C1] STUNT: Few-shot Tabular Learning with Self-generated Tasks from Unlabeled Tables
    Jaehyun Nam, Jihoon Tack, Kyungmin Lee, Hankook Lee, Jinwoo Shin
    <u>ICLR 2023</u>, **Spotlight Presentation (280/4956=5.6%)**
    Bronze Prize, Samsung Humantech Paper Awards
    Grand Prize, KAIST-Samsung Electronics Industry-Academia Cooperation Paper Award

Journals

[J1] Holistic Molecular Representation Learning via Multi-view Fragmentation
    Jaehyun Nam*, Seojin Kim*, Junsu Kim, Hankook Lee, Sungsoo Ahn, Jinwoo Shin
    <u>TMLR 2024</u>

Workshops

[W1] An Efficient Tokenization for Molecular Language Models
    Seojin Kim, **Jaehyun Nam**, Jinwoo Shin
    NeurIPS Workshop on AI for New Drug Modalities 2024

Honors

Notable Reviewer, ICLR	Mar. 2025
Google Cloud Platform Credit Award, Goolge Cloud	Apr. 2024
Grand Prize, KAIST-Samsung Electronics Industry-Academia Cooperation Paper Award	Aug. 2023
Travel Award, ICLR	May. 2023
Recipient, Google Conference Scholarships (APAC)	May. 2023
Bronze Prize, Samsung Humantech Paper Awards	Feb. 2023
Special Prize, National Cryptograpy Contest	Oct. 2021
Recipient, Hanseong Scholarship for Gifted Students	Mar. 2014 - Feb. 2016

Invited Talks

MLE-STAR: Machine Learning Engineering Agent via Search and Targeted Refinement
- Google Cloud AI Research (Sunnyvale, CA, US) — June 2025

Semi-supervised Tabular Classification via In-context Learning of Large Language Models
- Samsung Advanced Institue of Technology (Suwon, KR) — June 2023

STUNT: Few-shot Tabular Learning with Self-generated Tasks from Unlabeled Tables
- AI Expo Korea (Seoul, KR) — May 2023
- ICLR (Kigali, RW) — May 2023
- Samsung Electronics Co. Ltd. (Remote) — Mar. 2023
- MOGAM Institute of Biomedical Research (Remote) — Mar. 2023

Privacy-preserving Median Selection and Secure Aggregation in Federated Learning
- Korean Mathematical Society Fall Meeting (Remote) — Oct. 2021

Academic Services

Conference Reviewer
- Conference on Neural Information Processing System (**NeurIPS**)
- International Conference on Machine Learning (**ICML**)
- International Conference on Learning Representations (**ICLR**)
- International Conference on Computer Vision (**ICCV**)
- International Conference on Artificial Intelligence and Statistics (**AISTATS**)
- Conference on Language Modeling (**COLM**)

Teaching Experience

Teaching Assistant, Recent Advances in Deep Learning (AI602), KAIST — Spring 2024, Spring 2025

Teaching Assistant, Bayesian Machine Learning (AI701), KAIST — Fall 2024

Reference

Jinwoo Shin, Professor at KAIST
- Contact: jinwoos@kaist.ac.kr

Jaehyung Kim, Assistant Professor at Yonsei University
- Contact: jaehyungk@yonsei.ac.kr

Jinsung Yoon, Research Scientist at Google Clouad AI Reserach
- Contact: jinsungyoon@google.com