



Location

Seoul, KR

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Links

[LinkedIn](#)

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Research Interests

Foundation Models
for Structured Data

Languages

Korean

English

Dooho Lee

Master's Student @ KAIST

I am a second year Master's student at Electrical Engineering at KAIST under the supervision of Prof. Jaemin Yoo and Prof. Kijung Shin. My research focuses on Machine Learning on structured data including graph, time series and tabular data. especially recently actively researching on foundation models.

Outside academia, I've co-founded and worked as a founding engineer in three different startups, where I honed my problem-solving skills and deepened my expertise in software engineering and product development.

Education

M.S in Electrical Engineering	2025 – Present
KAIST, Daejeon, Republic of Korea	GPA: 3.88
B.S in Electrical Engineering, Computer Science (Double Major)	2019 – 2024
KAIST, Daejeon, Republic of Korea	Cum Laude (GPA: 3.77)

Publications

Node4All: Learning Node Representation Beyond Datasets

[Dooho Lee](#) and Jaemin Yoo

ACM SIGKDD Conference on Knowledge Discovery and Data Mining(KDD), 2026

View Space: Learning Representation across Arbitrary Graphs

[Dooho Lee](#), Myeong Kong, Minho Jeong, and Jaemin Yoo

International Conference on Machine Learning (ICML), 2026

Generalizing Multi-Scale Time-Series Modeling with a Single Operator

Cheonwoo Lee, [Dooho Lee](#), Doyun Choi, and Jaemin Yoo

International Conference on Machine Learning (ICML), 2026

Aggregation Buffer: Revisiting DropEdge with a New Parameter Block

[Dooho Lee](#), Myeong Kong, Sagad Hamid, Cheonwoo Lee, and Jaemin Yoo

International Conference on Machine Learning (ICML), 2025

Work Experience

Pensieve Inc. - Berkeley, CA

Founding Engineer & Designer

Nov 2022 – Aug 2023

- Co-founded a US-based startup with two UC Berkeley students and worked across engineering and product design for LLM-powered workflow tools. Built Pensieve Extension for real-time note taking from Chrome highlights and Pensieve Notes for Zoom transcription and automatic meeting notes, which was used by 3 organizations.

US Army - USAG Humpherys, KR

KATUSA (Korean Augmentation to the US Army)

Nov 2021– May 2023

- Addressed US-KR communication; the only KATUSA in the largest company of the US Army.at the Bravo Company, 602nd ASB, 2nd CAB, 2nd ID.

LayUs - Seoul, KR

Software Engineer

Mar 2022– Jul 2022

- Built a mobile application where users can upload exhibition tickets to redeem F&B coupons.

Core Skills

Programming Languages

Python · C · C++ ·
Java · JavaScript ·
TypeScript

Front-End & UI

HTML · CSS ·
Tailwind CSS
React · React Native
· Flutter

Back-End & Databases

MySQL · Neo4j ·
Chroma
Firebase · Google
Cloud Platform

Design & Prototyping

Figma · Adobe XD ·
Adobe Illustrator

Tools & DevOps

Git · Chrome
Extensions · Zoom
Apps

Machine Learning

PyTorch · PyTorch
Geometric · DGL ·
Weight&Biases

WARD - Daejeon, KR

Co-founder

Sep 2020 – Oct 2021

- Founded WARD, a machine learning-based stock info service; selected as one of the top 12 teams in 2021 E*5 KAIST under mentorship from Blue Point Partners’ Deputy CEO.
- Launched private beta with 200+ users; gathered feedback through 4 fund manager sessions, 20 user interviews, and 100+ survey responses.

Industrial Projects

Graph-Based Tracking of News Propagation on Social Media Using LLMs

National Cyber Security Research Institute, KR

Jan 2025 – Feb 2026

Research Experience

Data AI Lab - KAIST

Undergraduate Intern

Jan 2024 – Feb 2025

- Conducted in-depth studies of traditional to recent advances in graph machine learning.

Multi Modal AI Lab - KAIST

Undergraduate Intern

Aug 2023 – Dec 2023

- Studied foundational deep learning papers focus on computer vision and multi-modality.

Teaching Experience

Foundation of Big Data Analytics (EE412, KAIST)

Teaching Assistant

Fall 2025

Programming Structures for Electrical Engineering (EE209, KAIST)

Teaching Assistant

Spring, Fall 2025

- Independently developed a new programming assignment on Data Structures with auto-grading; assuming the usage of LLMs of students replaced a decade-old project for a core course for 200+ EE majors each semester.

Selected Awards & Honors

Startup

2nd place, 2023 Korea SW Startup Ideathon (Team Fall-Asleep)

Oct 2023

1st place, Pre-Startup Package (Dajeon center of CCEI)

Aug 2021

Design

1st place, 8th Army ROKA Support group Insignia Competition

Apr 2023

2nd place, Art Service Follow-up Growth Project (Team LayUs)

Nov 2022

Others

2024 team KAIST Global Challenge Program (\$15,000 funding)

Apr 2023

Bronze Medal, NH Investment Big Data Competition (Team Ward)

Aug 2021

1st place, 7th Creative Space G A.I & IoT Hackathon

Jul 2021