

Dong Min Kim

MS student @ KAIST, Daejeon, South Korea
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RESEARCH INTERESTS

Reliable Foundation Models for Time-Series and Sensor Data

EDUCATION

KAIST (Korea Advanced Institute of Science and Technology) Daejeon, Korea
M.S. in Electrical Engineering Sep 2025 — Present
Advised by Sung-Ju Lee

KAIST (Korea Advanced Institute of Science and Technology) Daejeon, Korea
B.S. in Electrical Engineering Sep 2019 — Aug 2025
GPA: 4.06/4.3, Summa Cum Laude

Rice University Houston, Texas, US
Visiting exchange student, ECE & CS Jan 2024 — May 2024
GPA: 4.0/4.0

RESEARCH AND WORK EXPERIENCE

Mobile Intelligence & Interaction Lab @ KAIST Daejeon, Korea
Undergraduate Research Intern June 2024 — Aug 2025

- Developed efficient low-latency framework for test-time adaptation on edge devices. Improved the methodology by using domain-level Wasserstein distance for effective sampling, implemented baselines, and tracked latency and memory usage on edge devices.

Intelligent Network Architecture Lab @ KAIST Daejeon, Korea
Individual Research June 2023 — Dec 2023

- Analyzed microservices trace data from the Alibaba Cluster Trace Program to support the scalability of an adaptive overload control framework for SLO-oriented microservices.
- Investigated storage abstraction for accelerating video-based deep learning applications.

Republic of Korea Army Sejong, Korea
Military service June 2021 — Dec 2022

PUBLICATIONS

C: Conference

- [C.1] “SNAP: Low-Latency Test-Time Adaptation with Sparse Updates”
Hyeongheon Cha, **Dong Min Kim**, Taesik Gong, Hye Won Chung, Sung-Ju Lee
Conference on Neural Information Processing Systems (NeurIPS), 2025.

U: Under Review

- [U.1] Manuscript on multimodal federated learning
Adiba Orzikulova, **Dong Min Kim**, Jaehong Yoon, Sung-Ju Lee
Under review at *Conference on Neural Information Processing Systems (NeurIPS), 2026.*

PROJECTS

Parallel Computing Projects: Course projects for COMP422 (Rice). Completed 4 projects using different parallel programming models: Parallel exploratory game tree search (Cilk Plus), parallel LU decomposition (OpenMP), 2.5D matrix multiplication (MPI), and data-parallel hole compaction (CUDA).

Pacwar Project: Term project for COMP440 (Rice). Implemented a genetic algorithm and simulated annealing to optimize the “killer gene” that can annihilate its opponents in a team of 2.

Pintos (OS): Course project for EE415. Completed the pintos projects, implementing kernel functionalities for threads, user programs, and virtual memory. Full score on all projects.

Rocket Recycling (Reinforcement Learning): Course project for EE488. Implemented a RL algorithm (PPO) to hover and land a rocket in a team of 3.

Music Genre Classification: Course project for ELEC378 (Rice). Used recurrent convolutional neural network and support vector machine to classify a dataset of songs into their genres in a team of 4. Achieved first place in Kaggle leaderboard rankings.

Out-of-Domain Face Recognition: Course project for EE488. Designed a face-recognition pipeline robust to out-of-domain data using MobileFaceNet and Sub-center ArcFace loss. Achieved 3rd place out of 66 on test set EER.

Dallyeo, Personalized Running Buddy: Course project for EE59900A. Built an Android app (in team of 2) for personalized LLM-based running coaching by compiling user goals into executable DSL plans and triggering real-time TTS feedback from mobile sensor metrics.

HONORS AND AWARDS

Kwon Young-se Scholarship 4M KRW Merit-based Scholarship from KAIST	Nov 2025
Undergraduate Research Participation Program 2M KRW Research Grant from KAIST	Jan 2025
KAIST Study Abroad Scholarship 4M KRW Study Abroad Scholarship	May 2024
National Science and Technology Scholarship 2M KRW Merit-based Scholarship	Aug 2023

RELEVANT COURSES

KAIST

- Foundations of Big Data Analytics
- Deep Learning for Computer Vision
- Operating Systems and System Programming for Electrical Engineering
- System Programming
- Computer Network
- Introduction to Reinforcement Learning
- Discrete Mathematics
- Programming Structures for Electrical Engineering
- Basics of Artificial Intelligence
- Data Structures

Rice University

- Artificial Intelligence
- Machine Learning Concepts and Techniques
- Introduction to Computer Vision
- Parallel Computing

TEACHING EXPERIENCES

Computer Networks (EE30023) Head of teaching assistants	Spring 2026
EE Design Project for Social Impact (EE405) Teaching assistant	Fall 2025

ACADEMIC SERVICES

ACM MobiCom Reviewer	2026
ACM MobiSys Reviewer	2026

OTHER EXPERIENCES

KAIST Science Outreach Program Daejeon, Korea
One-on-one English mentoring for middle and high school students April 2023 — July 2023

The KAIST Herald Daejeon, Korea
Head of Society Division for the KAIST Herald, the monthly English newspaper at KAIST Aug 2019 — June 2021

SKILLS

- **Programming languages:** Python, C/C++
- **Languages:** Korean(native), English(TOEFL 115), Chinese(HSK 5)