

Youngeun Nam

Motto: “Irreplaceable”

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Mobile: +82-10-9596-0615

E-mail: youngeun.nam@kaist.ac.kr

RESEARCH INTEREST

Data Analysis, Deep Learning, Generative Model, Anomaly Detection, Multi-Modal Learning, RAG

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)

Ph.D. in School of Computing

Mar. 2022 – Feb. 2026(expected)

Advisor: Jae-Gil Lee

Korea Advanced Institute of Science and Technology (KAIST)

M.S. in Industrial and System Engineering (Graduate School of Data Science)

Mar. 2020 – Feb. 2022

Advisor: Jae-Gil Lee

Pohang University of Science and Technology (POSTECH)

B.S. in Industrial and Management Engineering

Mar. 2013 – Feb. 2017

Cum Laude

PUBLICATIONS

Conferences

[13] **Nam, Y.***, Na, J.*, Yoon, S., Song, H., Lee, J., and Lee, B. S., *Bi-Modal Learning for Networked Time Series*. Proceedings of the 31st ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD), Toronto, Canada, 2025.

[12] Na, J., **Nam, Y.**, Kang, J., and Lee, J., *Mitigating Source Label Dependency in Time-Series Domain Adaptation under Label Shifts*. Proceedings of the 31st ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD), Toronto, Canada, 2025.

[11] Na, J.*, **Nam, Y.***, Yoon, S., Song, H., Lee, J., and Lee, B. S., *Mobility Networked Time-Series Forecasting Benchmark Datasets*. International AAAI Conference on Web and Social Media (ICWSM Posters, Demos, and Datasets Track). Copenhagen, Denmark, 2025.

[10] Bae, M., Shin, Y., **Nam, Y.**, Lee, Y., and Lee, J., *Semi-Supervised Learning for Time Series Collected at a Low Sampling Rate*. Proceedings of the 30th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD), Barcelona, Spain, 2024.

[9] **Nam, Y.**, Yoon, S., Shin, Y., Bae, M., Song, H., Lee, J., and Lee, B. S., *Breaking the Time-Frequency Granularity Discrepancy in Time-Series Anomaly Detection*. International World Wide Web Conference (WWW), Singapore, Singapore, 2024.

[8] **Nam, Y.**, Trirat, P., Kim, T., Lee, Y., and Lee, J. *Context-Aware Deep Time-Series Decomposition for Anomaly Detection in Businesses*. Proceedings of European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD), Torino, Italy, 2023.

[7] Shin, H., Kang, J., Akbar, I., Choi, S., **Nam, Y.**, Lee, J. *An Empirical Investigation of Deep Learning Models for Defect Classification in Solar Cells Electroluminescence*. Korea Computer Congress, 2023.

[6] Trirat, P.*, **Nam, Y.***, Kim, T., and Lee, J. *AnoViz: A Visual Inspection Tool of Anomalies in Multivariate Time Series*. The Thirty-Seventh AAAI Conference on Artificial Intelligence (Demonstration Program), Washington, DC, 2023.

[5] Kim, T., Bae, M., Jung, H., **Nam, Y.**, Shin, Y., Min, H. *User-Adaptive Ranking System on Mobile Trading Applications*. Korea Computer Congress, 2022.

[4] Kim, D., Min, H., **Nam, Y.**, Song, H., Yoon, S., Kim, M., Lee, J. *COVID-EENet: Predicting Fine-Grained Impact of COVID-19 on Local Economies*. The Thirty-Sixth AAAI Conference on Artificial Intelligence, Virtual Event, 2022.

[3] Na, J., Kang, J., Bae, M., **Nam, Y.**, Lee, J. *Vessel Trajectory Periodic Pattern Mining by Using AIS Data*. Korea Computer Congress, 2021.

[2] **Nam, Y.**, Kang, J., Lee, J. *ActiveBoostThief: Model Extraction Attack Using Reliable Active Learning*. Korea Computer Congress, 2021.

[1] Kim, M., Kang, J., Kim, D., Song, H., Min, H., **Nam, Y.**, Park, D. Lee, J. *Hi-COVIDNet: Deep Learning Approach to Predict Inbound COVID-19 Patients and Case Study in South Korea*. Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD), Virtual Event, California, 2020.

ACADEMIC EXPERIENCE

Research Internship

Data Mining Lab

Seoul National University

Advisor: Sungzoon Cho

Aug. 2018 – Jul. 2018

Experience Design & Engineering Lab

POSTECH

Advisor: Sungho Han

Sep. 2015 – Dec. 2015

Activities

Management Strategy Student Association (MSSA)

POSTECH

Sponsor: 3M Korea, POSCO

Sep. 2014 – Dec. 2016

Future Industrial Engineering Leaders and Dreamers (FIELD Camp)

Korea University

Competition Silver Award

Aug. 2014

International Conference for the Integration of Science, Technology and Society

KAIST

ICIST-KAIST Delegates

Aug. 2014

Teaching Assistant

[CS360] Introduction to Database

Advisor: Jae-Gil Lee

KAIST

Sep. 2023 – Dec. 2023

[CS564] Data Science Methodology

Advisor: Jae-Gil Lee

KAIST

Mar. 2023 – Jun. 2023

(Outstanding Teaching Assistant Award)

[CS564] Data Science Methodology

Advisor: Jae-Gil Lee

KAIST

Sep. 2022 – Dec. 2022

[CS492(D)] Special Topics in Computer Science<Introduction to Data Science>

Advisor: Jae-Gil Lee

KAIST

Mar. 2022 – Jun. 2022

WORK EXPERIENCE

Research Internship, LG AI Research

Data Analyst, Fitogether Inc.

Software Engineer, Hyundai Autoever

Sep. 2025 –

Sep. 2018 – Nov. 2019

Jan. 2017 – Dec. 2017

OTHER EXPERIENCE

Mentor, Hyoam High School Program

SHOOTART Women's Futsal Club

SAMSUNG Dream Class Mentor

RC Volunteers

POSTECH Residential College Residential Advisor

16th LS University Students Overseas Volunteers

Mentor, Hyoam High School Program

President of the Female Student Council

Exchange Students, Korea National University of Arts

Busking (Keyboard) in Seoul

Hong Kong Toys & Games Fair 2013 Exhibitor

Jul. 2021

Jan. 2017 – Present

Jul. 2016 – Aug. 2016

Mar. 2016 – Dec. 2016

Feb. 2016 – Dec. 2016

Jul. 2015 – Sep. 2015

Jul. 2015

Jan. 2015 – Dec. 2015

Jun. 2014, Dec. 2015

Jan. 2014

Jan. 2013

PROJECTS

Research Projects

Samsung Mobile Experience

- Few-shot Anomaly Detection and Root Cause Estimation development

KAIST

Jul. 2022 – Jul. 2023

Samsung Mobile Experience

- Real-time service incident prediction development

KAIST

Jun. 2021 – Jun. 2022

Samsung SDS

- Storage-based platform model business idea research project

- Platform proposal that provides new value to storage consumers

Seoul National University

Aug. 2018 – Jul. 2018

Hyundai Card/Capital/Commercial

- Hyundai Card/Capital/Commercial Blockchain Platform Construction and Service Task

Hyundai Autoever

Jun. 2017 – Dec. 2017

Course Projects

[CS575] AI Ethics

KAIST

- Solving the Bias in Social Attitude Problem of News Recommendation System

Spring 2022

[CS470] Introduction to Artificial Intelligence

KAIST

- Unsupervised Anomaly Detection in Time Series with Temporal Context

Spring 2022

[CS570] Artificial Intelligence and Machine Learning

KAIST

- Time-series anomaly detection via multiresolution ensemble learning

Spring 2021

[KSE526] Analytical Methodologies for Big Data

KAIST

- WAD: Anomaly detection for ECG data using CNN improved by Wavelet analysis

Fall 2020

[CS548] Advanced Information Security

KAIST

- Black-box attack using active learning

Fall 2020

AWARDS AND HONORS

Outstanding Reviewer, KDD 2025 February

2025

Outstanding Reviewer, KDD 2025 August

2024

Excellence in Character Scholarship, 2024 (₩1,000,000)

2024

Young-Han Kim Global Leader Scholarship, 2024 (₩4,000,000)

2024

School of Computing, KAIST, Outstanding Teaching Assistant Award, 2023 Spring

2023

The Thirty-Seventh AAAI Conference on Artificial Intelligence Scholarship, 2023 (\$500)

2023

Department of Industrial & Systems Engineering, KAIST, Scholarship, 2021 (₩1,000,000)

2021

FIELD Silver Award, Future Industrial Engineering Leaders and Dreamers Camp

2016

REVIEWER SERVICES

Program Committee

- ACM International World Wide Web Conference (WWW): 2024
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD): 2024
- Conference on Neural Information Processing Systems (NeurIPS): 2024
- Asian Conference on Machine Learning Conference Track (ACML): 2024
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD): 2025 August
 - Recognized as an **Outstanding Reviewer (top 10%)**
- International Conference on Learning Representations (ICLR): 2025
- Artificial Intelligence and Statistics (AISTATS): 2025
- ACM International World Wide Web Conference (WWW): 2025
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD): 2025 February
 - Recognized as an **Outstanding Reviewer (top 10%)**
- Conference on Neural Information Processing Systems (NeurIPS) Datasets and Benchmarks: 2025

PROGRAMMING SKILLS

Python(Intermediate), R(Intermediate), Excel(Intermediate), C(Basic), C++(Basic), Java(Basic)