

Youngeun Nam

Motto: “Irreplaceable”

January 28, 2026

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RESEARCH INTEREST

Data Analysis, Anomaly Detection, Time Series, Multi-Modal Learning, Large Language Model, Agent

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)

Ph.D. in School of Computing

Mar. 2022 – Feb. 2026

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 <i>Sep. 2023 – Dec. 2023</i>
[CS564] Data Science Methodology Advisor: Jae-Gil Lee <i>(Outstanding Teaching Assistant Award)</i>	KAIST <i>Mar. 2023 – Jun. 2023</i>
[CS564] Data Science Methodology Advisor: Jae-Gil Lee	KAIST <i>Sep. 2022 – Dec. 2022</i>
[CS492(D)] Special Topics in Computer Science<Introduction to Data Science> Advisor: Jae-Gil Lee	KAIST <i>Mar. 2022 – Jun. 2022</i>

WORK EXPERIENCE

Research Internship, LG AI Research	<i>Sep. 2025 – Feb. 2026</i>
Data Analyst, Fitogether Inc.	<i>Sep. 2018 – Nov. 2019</i>
Software Engineer, Hyundai Autoever	<i>Jan. 2017 – Dec. 2017</i>

OTHER EXPERIENCE

Mentor, Hyoam High School Program	<i>Jul. 2021</i>
SHOOTART Women's Futsal Club	<i>Jan. 2017 – Present</i>
SAMSUNG Dream Class Mentor	<i>Jul. 2016 – Aug. 2016</i>
RC Volunteers	<i>Mar. 2016 – Dec. 2016</i>
POSTECH Residential College Residential Advisor	<i>Feb. 2016 – Dec. 2016</i>
16 th LS University Students Overseas Volunteers	<i>Jul. 2015 – Sep. 2015</i>
Mentor, Hyoam High School Program	<i>Jul. 2015</i>
President of the Female Student Council	<i>Jan. 2015 – Dec. 2015</i>
Exchange Students, Korea National University of Arts	<i>Jun. 2014, Dec. 2015</i>
Busking (Keyboard) in Seoul	<i>Jan. 2014</i>
Hong Kong Toys & Games Fair 2013 Exhibitor	<i>Jan. 2013</i>

PROJECTS

Research Projects

Samsung Mobile Experience	KAIST
- Few-shot Anomaly Detection and Root Cause Estimation development	<i>Jul. 2022 – Jul. 2023</i>
Samsung Mobile Experience	KAIST
- Real-time service incident prediction development	<i>Jun. 2021 – Jun. 2022</i>
Samsung SDS	Seoul National University
- Storage-based platform model business idea research project	<i>Aug. 2018 – Jul. 2018</i>
- Platform proposal that provides new value to storage consumers	

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

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

KAIST

Spring 2022

[CS470] Introduction to Artificial Intelligence

- Unsupervised Anomaly Detection in Time Series with Temporal Context

KAIST

Spring 2022

[CS570] Artificial Intelligence and Machine Learning

- Time-series anomaly detection via multiresolution ensemble learning

KAIST

Spring 2021

[KSE526] Analytical Methodologies for Big Data

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

KAIST

Fall 2020

[CS548] Advanced Information Security

- Black-box attack using active learning

KAIST

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
- International Conference on Learning Representations (ICLR): 2026

PROGRAMMING SKILLS

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