Youngeun Nam

Motto: "Irreplaceable"
May 16, 2025

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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 — KAIST
Advisor: Jae-Gil Lee — *Sep. 2023 – Dec. 2023*

[CS564] Data Science Methodology — KAIST
Advisor: Jae-Gil Lee — *Mar. 2023 – Jun. 2023*
(Outstanding Teaching Assistant Award)

[CS564] Data Science Methodology — KAIST
Advisor: Jae-Gil Lee — *Sep. 2022 – Dec. 2022*

[CS492(D)] Special Topics in Computer Science<Introduction to Data Science> — KAIST
Advisor: Jae-Gil Lee — *Mar. 2022 – Jun. 2022*

WORK EXPERIENCE

Data Analyst, Fitogether Inc. — *Sep. 2018 – Nov. 2019*
Software Engineer, Hyundai Autoever — *Jan. 2017 – Dec. 2017*

OTHER EXPERIENCE

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

PROJECTS

Research Projects

Samsung Mobile Experience — KAIST
- Few-shot Anomaly Detection and Root Cause Estimation development — *Jul. 2022 – Jul. 2023*

Samsung Mobile Experience — KAIST
- Real-time service incident prediction development — *Jun. 2021 – Jun. 2022*

Samsung SDS — Seoul National University
- Storage-based platform model business idea research project — *Aug. 2018 – Jul. 2018*
- Platform proposal that provides new value to storage consumers

Hyundai Card/Capital/Commercial — Hyundai Autoever

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

PROGRAMMING SKILLS

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