

Youngeun Nam

Motto: “Irreplaceable”

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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

[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.	<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 Autoever
- Hyundai Card/Capital/Commercial Blockchain Platform Construction and Service Task	<i>Jun. 2017 – Dec. 2017</i>

Course Projects

[CS575] AI Ethics	KAIST
- Solving the Bias in Social Attitude Problem of News Recommendation System	<i>Spring 2022</i>
[CS470] Introduction to Artificial Intelligence	KAIST
- Unsupervised Anomaly Detection in Time Series with Temporal Context	<i>Spring 2022</i>
[CS570] Artificial Intelligence and Machine Learning	KAIST
- Time-series anomaly detection via multiresolution ensemble learning	<i>Spring 2021</i>
[KSE526] Analytical Methodologies for Big Data	KAIST
- WAD: Anomaly detection for ECG data using CNN improved by Wavelet analysis	<i>Fall 2020</i>

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

PROGRAMMING SKILLS

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