

# Youngeun Nam

Motto: “Irreplaceable”

June 11, 2025

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## RESEARCH INTEREST

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

## EDUCATION

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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

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### 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

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### 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

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Data Analyst, Fitogether Inc.

*Sep. 2018 – Nov. 2019*

Software Engineer, Hyundai Autoever

*Jan. 2017 – Dec. 2017*

## OTHER EXPERIENCE

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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*

16<sup>th</sup> 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

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### 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

## 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

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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

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