# Youngeun Nam

Motto: "Irreplaceable" June 11, 2025

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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)

Mar. 2013 – Feb. 2017

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

b.s. in moustral and Management Engineering

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

Researc	h In	terns	hip

Data Mining Lab Seoul National University
Advisor: Sungzoon Cho

Aug. 2018 – Jul. 2018

Experience Design & Engineering Lab

Advisor: Sungho Han

POSTECH

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

ICIST-KAIST Delegates

Aug. 2014

Advisor: Jac-Gil Lee  [CS564] Data Science Methodology Advisor: Jac-Gil Lee  (Outstanding Teaching Assistant Award)  [CS564] Data Science Methodology Advisor: Jac-Gil Lee  (CS564] Data Science Methodology Advisor: Jac-Gil Lee  [CS492(D)] Special Topics in Computer Science KAIST Mar. 2022 – Dec. 2022  [CS492(D)] Special Topics in Computer Science KAIST Mar. 2022 – Jun. 2022  [CS492(D)] Special Topics in Computer Science KAIST Mar. 2022 – Jun. 2022  [CS492(D)] Special Topics in Computer Science KAIST Mar. 2022 – Jun. 2022  [CS492(D)] Special Topics in Computer Science KAIST Mar. 2022 – Jun. 2022  [CS492(D)] Special Topics in Computer Science KAIST Mar. 2022 – Jun. 2022  [CS492(D)] Special Topics in Computer Science KAIST Mar. 2012 – Jun. 2022  [CS492(D)] Special Topics in Computer Science KAIST Mar. 2012 – Jun. 2022  [CS492(D)] Special Topics in Computer Science KAIST Mar. 2017 – Dec. 2015  [CS564] Data Science  [CS492(D)] Special Topics in Computer Science Jun. 2017 – Dec. 2017  [CS564] Data Science  [CS492(D)] Special Topics in Computer Science Jun. 2017 – Dec. 2017  [CS564] Data Science  [CS492(D)] Special Topics in Computer Science Jul. 2016 – Dec. 2017  [CS564] Data Science  [CS492(D)] Special Topics in Computer Science Jul. 2016 – Dec. 2017  [CS564] Data Science  [CS492(D)] Special Topics in Computer Science Jul. 2016 – Dec. 2017  [CS564] Data Science  [CS492(D)] Special Topics in Computer Science	Teaching Assistant	
[CS564] Data Science Methodology Advisor: Jae-Gil Lee (Outstanding Teaching Assistant Award)  [CS564] Data Science Methodology Advisor: Jae-Gil Lee (CS492(D)] Special Topics in Computer Science <introduction &="" (keyboard)="" -="" 16th="" 2013="" 2014="" 2015="" 2016="" 2017="" 2022="" 2023="" advisor="" advisor:="" analyst,="" and="" anomaly="" arts="" autoever="" busking="" cause="" class="" club="" college="" council="" data="" dec.="" detection="" development="" dream="" engineer,="" estimation="" exchange="" exhibitor="" experience="" experience<="" fair="" fernale="" few-shot="" fitogether="" futsal="" games="" high="" hong="" hyoam="" hyundai="" in="" inc.="" jae-gil="" jul.="" jun.="" kaist="" kong="" korea="" la="" lee="" ls="" mar.="" mentor="" mentor,="" mobile="" national="" of="" overseas="" postech="" president="" program="" projects="" rc="" research="" residential="" root="" samsung="" school="" science="" seoul="" shootart="" software="" student="" students="" students,="" th="" the="" to="" toys="" university="" volunteers="" women's="" work="" –=""><th>[CS360] Introduction to Database</th><th>KAIST</th></introduction>	[CS360] Introduction to Database	KAIST
Advisor: Jac-Gil Lee (Outstanding Teaching Assistant Award)  [CS564] Data Science Methodology Advisor: Jae-Gil Lee  [CS492(D)] Special Topics in Computer Science <introduction &="" (keyboard)="" 2013="" 2016="" advisor="" advisor:="" analyst,="" and="" anomaly="" arts="" autoever="" busking="" cause="" class="" college="" council="" data="" dec.="" detection="" development="" dream="" engineer,="" estimation="" exchange="" exhibitor="" experience="" fair="" feb.="" female="" few-shot="" fitogether="" fresident="" games="" high="" hong="" hontor,="" hyoam="" hyundai="" idth="" in="" inc.="" jac-gil="" kaist="" kaist<="" kong="" korea="" lee="" ls="" mentor="" mentor,="" mobile="" national="" of="" overseas="" postech="" program="" projects="" rc="" research="" residential="" root="" samsung="" school="" science="" seoul="" software="" student="" students="" students,="" th="" the="" to="" toys="" university="" volunteers="" work="" –=""><th>Advisor: Jae-Gil Lee</th><th>Sep. 2023 – Dec. 2023</th></introduction>	Advisor: Jae-Gil Lee	Sep. 2023 – Dec. 2023
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Software Engineer, Hyundai Autoever  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 Jul. 2015 – Sep. 2015 Mentor, Hyoam High School Program Jul. 2015 President of the Female Student Council Exchange Students, Korea National University of Arts Jun. 2014 – Dec. 2015 Busking (Keyboard) in Seoul Hong Kong Toys & Games Fair 2013 Exhibitor  PROJECTS  Research Projects Samsung Mobile Experience KAIST - Few-shot Anomaly Detection and Root Cause Estimation development Jul. 2022 – Jul. 2023 Samsung Mobile Experience KAIST	WORK EXPERIENCE	
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Samsung Mobile Experience KAIST		KAIST
	- Few-shot Anomaly Detection and Root Cause Estimation development	Jul. 2022 – Jul. 2023
- Real-time service incident prediction development	Samsung Mobile Experience	KAIST
Test this serves instant prediction as recognism	- Real-time service incident prediction development	Jun. 2021 – Jun. 2022
Samsung SDS Seoul National University	Samsung SDS	Seoul National University
		Aug. 2018 – Jul. 2018
- Platform proposal that provides new value to storage consumers	- Platform proposal that provides new value to storage consumers	

- Hyundai Card/Capital/Commercial Blockchain Platform Construction and Service Task Jun. 2017 – Dec. 2017

## **Course Projects**

[CS5/5] Al 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**