

Youngeun Nam

Motto: “Irreplaceable”

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RESEARCH INTEREST

Data Analysis, Machine Learning, Time Series, Anomaly Detection, Sports Data Analysis, Networked TS

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

[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. 2020.

[2] **Nam, Y.**, Kang, J., Lee, J. “*ActiveBoostThief: Model Extraction Attack Using Reliable Active Learning*”. Korea Computer Congress. 2021.

[3] Na, J., Kang, J., Bae, M., **Nam, Y.**, Lee, J. “*Vessel Trajectory Periodic Pattern Mining by Using AIS Data*”. Korea Computer Congress. 2021.

[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. 2022.

[5] 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). 2023.

[6] 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.

[7] **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). 2023.

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

[CS492(D)] Special Topics in Computer Science<Introduction to Data Science>	KAIST
Advisor: Jae-Gil Lee	Mar. 2022 – Jun. 2022
[CS564] Data Science Methodology	KAIST
Advisor: Jae-Gil Lee	Sep. 2022 – Dec. 2022
[CS564] Data Science Methodology	KAIST
Advisor: Jae-Gil Lee	Mar. 2023 – Jun. 2023
(<i>Outstanding Teaching Assistant Award</i>)	
[CS360] Introduction to Database	KAIST
Advisor: Jae-Gil Lee	Sep. 2023 – Dec. 2023

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	<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>
[CS548] Advanced Information Security	KAIST
- Black-box attack using active learning	<i>Fall 2020</i>

AWARDS AND HONORS

School of Computing, KAIST, Outstanding Teaching Assistant Award, 2023 Spring	<i>2023</i>
The Thirty-Seventh AAAI Conference on Artificial Intelligence Scholarship, 2023 (\$500)	<i>2023</i>
Department of Industrial & Systems Engineering, KAIST, Scholarship, 2021 (₩1,000,000)	<i>2021</i>
FIELD Silver Award, Future Industrial Engineering Leaders and Dreamers Camp	<i>2016</i>

PROGRAMMING SKILLS

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