Jeehong Kim

williamkim10@snu.ac.kr • Homepage • LinkedIn • GitHub

RESEARCH INTEREST

I am interested in designing broadly applicable machine learning techniques for graph-based problems, especially in heterophilous and anomalous scenarios.

- **Keywords**: Graph Representation Learning, Graph Heterophily, Anomaly Detection, GNNs with LLM

EDUCATION

Seoul National University, Seoul, South Korea
- M.S.-Ph.D. Integrated Program in Data Science   Mar 2023 – Present
    - Research Interest: Graph Representation Learning, Graph Heterophily, Anomaly Detection
    - Advisor: Prof. Hyunwoo Park

Korea University, Seoul, South Korea
- B.S. in Industrial Management Engineering   Mar 2019 – Feb 2023

RESEARCH EXPERIENCE

DSAIL (Data Science & Artificial Intelligence), KAIST
- Undergraduate Research Student   Jun 2022 – Aug 2022
    - Research Interest: Graph Neural Network, Recommendation System
    - Advisor: Prof. Chanyoung Park

AIDA Lab (Artificial Intelligence & Data Analytics), Korea University
- Undergraduate Research Student   May 2021 – Jan 2022
    - Research Interest: Anomaly Detection, GAN
    - Advisor: Prof. Sungwon Han

PUBLICATIONS
(†: Equal contribution)

JOURNALS

[J1] FURIOUS: Fully unified risk-assessment with interactive operational user system for vessels
Yooyeun Kim†, **Jeehong Kim†**, Wonhee Lee, Hyunwoo Park, Deuk Jae Cho
PLoS One (2025.05)

WORKSHOPS

[W1] Adaptive Sparsified Graph Learning Framework for Vessel Behavior Anomalies
Jeehong Kim†, Minchan Kim†, Jaeseong Ju, Youngseok Hwang, Wonhee Lee, Hyunwoo Park
AAAI 2025 Workshop on Anomaly Detection in Scientific Domains

PROJECTS

Moin Company
- AI-based fraud detection for overseas remittance   Jul 2025 – Present

VAIV Company
- Generative AI workforce development initiative   Mar 2024 – Present

Korea Research Institute of Ships & Ocean Engineering (KRISO)
- Vessel Behavior Anomaly Detection   Oct 2024 – Present
- Visualization for Ship Collision Risk Assessment   Mar 2024 – May 2025

AWARDS & SCHOLARSHIPS

SNU Medical AI Scholarship, Seoul National University   Aug 2024 – Present

Veritas Scholarship, Korea University   Feb 2022
- Research on detection of anomalies in the manufacturing process
    - Advisor: Prof. Sungwon Han

HAICON2021, Korea Institute of Information Security & Cryptology (KIISC)   Nov 2021
- Ranked 6th out of 177 teams
- Construction of an AI model for identifying time-series based anomalies in industrial control systems

Industrial Engineering Project Competition, Korean Institute of Industrial Engineers (KIIE)   Oct 2021
- Participation award in industrial engineering project competition
- Design of a dynamic corridor network for K-UAM

Data Visualization Competition, Korea University, Yonsei University, Intel   Aug 2021
- Grand Prize

▪ Visualization of patient and their deductible premium relationship

ACTIVITIES	**Lab Leader**, Visualization and Business Analytics Lab (ViBA)	Dec 2024 – Present
	▪ Advisor: Prof. Hyunwoo Park	
	Samsung Dream Class	Sep 2021 – Feb 2022
	Korea-China Leadership Program, Korea Foundation for Advanced Studies (KFAS)	Jul 2019
TEACHING EXPERIENCE	**Teaching Assistant**	
	▪ K-Digital training program at Seoul National University	Jun 2024
	▪ Python data analysis training program for SNU faculty	Jan 2024
TALKS AND SEMINARS	**FURIOUS: Fully unified risk-assessment with interactive operational user system for vessels**	
	▪ 2024 INFORMS Annual Meeting (Contributed Session)	Oct 2024
REFERENCES	**Prof. Hyunwoo Park**, Associate Professor, Seoul National University	
	▪ Email: hyunwoopark@snu.ac.kr	

[*CV compiled on 2025-07-16*]