

# Namkyeong Lee

[namkyeong96@kaist.ac.kr](mailto:namkyeong96@kaist.ac.kr) • [Homepage](#) • [Google Scholar](#) • [Github](#)

## RESEARCH INTEREST

### Graph Machine Learning

Anything connected to or can be represented as graphs.

- Graph Representation Learning (e.g., Self-supervised, Semi-supervised Learning on graphs)
- Graph Neural Networks for Chemistry and Bioinformatics
- Graph Neural Networks for Recommendation System

## EDUCATION

### KAIST (Korea Advanced Institute of Science and Technology)

- Ph.D. in Industrial and Systems Engineering Mar 2023 – Present
  - Research Interest: Graph Representation Learning, AI4Science
  - Advisor: [Prof. Chanyoung Park](#)

### KAIST (Korea Advanced Institute of Science and Technology)

- M.S. in Industrial and Systems Engineering Mar 2021 – Feb 2023
  - GPA: 3.85/4.3
  - Research Interest: Graph Representation Learning, Graph Mining
  - Advisor: [Prof. Chanyoung Park](#)

### Korea University

- B.S. in Industrial Management Engineering Mar 2015 – Feb 2021
  - GPA: 3.9/4.5
  - Dean's List (Spring 2021)

## WORK EXPERIENCE

### NAVER

Seongnam, Korea

Dec 2022 – Feb 2023

- Research Intern
  - Project: Learning Continual User Representation for Recommendation

### AI Soft Korea

Seoul, Korea

Jun 2020 – Mar 2021

- Co-founder of AI-based legal counseling startup company.
  - Grand prize at Seoul Innovation challenge 2020.

## PUBLICATIONS

### CONFERENCES

- [C4] Heterogeneous Graph Learning for Multi-modal Medical Data Analysis  
Sein Kim, **Namkyeong Lee**, Junseok Lee, Dongmin Hyun, Chanyoung Park  
Thirty-Seventh AAAI Conference on Artificial Intelligence (**AAAI 2023 Oral Presentation**)
- [C3] Relational Self-Supervised Learning on Graphs  
**Namkyeong Lee**, Dongmin Hyun, Junseok Lee, Chanyoung Park  
ACM International Conference on Information and Knowledge Management (**CIKM 2022**)
- [C2] GraFN: Semi-Supervised Node Classification on Graph with Few Labels via Non-Parametric Distribution Assignment  
Junseok Lee, Yunhak Oh, Yeonjun In, **Namkyeong Lee**, Dongmin Hyun, Chanyoung Park  
ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR 2022 Short Paper**)
- [C1] Augmentation-Free Self-Supervised Learning on Graphs  
**Namkyeong Lee**, Junseok Lee, Chanyoung Park  
Thirty-Sixth AAAI Conference on Artificial Intelligence (**AAAI 2022**)

### JOURNALS

- [J1] Self-Supervised Graph Representation Learning via Positive Mining  
**Namkyeong Lee**, Junseok Lee, Chanyoung Park  
**Information Sciences (2022)**

### WORKSHOPS

[W1] Predicting Density of States via Multi-modal Transformer  
**Namkyeong Lee**, Heewoong Noh, Sungwon Kim, Dongmin Hyun, and Chanyoung Park  
 ICLR Workshop on Machine Learning for Materials (**ML4Materials 2023**)

PROJECTS	<b>Predicting Density of States based on the Structure of Materials</b>	May 2021 – Mar 2022
	▪ Collaboration with Korea Research Institute of Chemical Technology (KRICT)	
	<b>Predicting Molecular Properties after Chemical Interaction</b>	Mar 2022 – Dec 2022
	▪ Collaboration with Korea Research Institute of Chemical Technology (KRICT)	
	<b>Learning Continual Universal User Representation for Recommendation</b>	Jul 2022 – Present
	▪ Collaboration with NAVER Shopping	
AWARDS & SCHOLARSHIPS	<b>CIKM Travel Award</b>	Sep 2022
	▪ SIGIR student travel grants for CIKM 2022.	
	<b>Grand Prize at Seoul Innovation Challenge 2020</b> , Seoul Business Agency	Jan 2021
	▪ Barlaw: AI-based legal counseling start-up.	
	• 1st place among 444 teams.	
	<b>Dean's List</b> , Korea University	Spring 2019
	▪ Academic Excellence Award for attaining a semester GPA of 4.5/4.5.	
	<b>Special Scholarship for the Student Affairs Office</b> , Korea University	Fall 2019, Spring 2020
	<b>Veritas Scholarship</b> , Korea University	Spring 2020
	▪ Research on optimize drone routing with trucks for on-demand services	
	• Advisor: Prof. Taesu Cheong	
	<b>Certificate</b> , Korea National Police Agency	Fall 2018
	▪ An exemplary auxiliary police.	
TEACHING EXPERIENCE	<b>Teaching Assistant</b>	
	▪ IE343: Statistical Machine Learning	Spring 2021, 2022, 2023
	▪ CoE202: Basics of Artificial Intelligence	Fall 2021
PROFESSIONAL SERVICES	<b>Program Committee</b>	
	▪ Conference on Neural Information Processing Systems (NeurIPS), 2023	
	▪ AAAI Conference on Artificial Intelligence (AAAI), 2023	
	<b>Journal Reviews</b>	
	▪ ACM Transactions on Knowledge Discovery from Data (TKDD)	
	▪ IEEE Transactions on Neural Networks and Learning Systems (TNNLS)	
	▪ World Wide Web	
REFERENCES	<b>Prof. Chanyoung Park</b>	
	Professor of Industrial and Systems Engineering	
	KAIST (Korea Advance Institute of Science and Technology)	
	cy.park@kaist.ac.kr • +82 (042) 350-3137	

[CV compiled on 2023-04-11]