

# Namkyeong Lee

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## 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**)

<b>PROJECTS</b>	<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
<b>AWARDS &amp; SCHOLARSHIPS</b>	<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.
<b>TEACHING EXPERIENCE</b>	<b>Teaching Assistant</b>
	▪ IE343: Statistical Machine Learning Spring 2021, 2022, 2023
	▪ CoE202: Basics of Artificial Intelligence Fall 2021
<b>PROFESSIONAL SERVICES</b>	<b>Conference Reviews</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
<b>TALKS AND SEMINARS</b>	<b>Augmentation-Free Self-Supervised Learning on Graphs</b>
	▪ Top Conference Session of Korea Computer Congress (KCC) 2022
	<b>Relational Self-Supervised Learning on Graphs</b>
	▪ Top Conference Session of Korea Software Congress (KSC) 2022
<b>REFERENCES</b>	<b>Prof. Chanyoung Park</b>
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