

# 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

### AISoftKorea

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)

## PROJECTS

### Predicting Density of States based on the Structure of Materials

May 2021 – Mar 2022

	<ul style="list-style-type: none"> <li>▪ Collaboration with Korea Research Institute of Chemical Technology (KRICT)</li> </ul>	
	<b>Predicting Molecular Properties after Chemical Interaction</b>	Mar 2022 – Dec 2022
	<ul style="list-style-type: none"> <li>▪ Collaboration with Korea Research Institute of Chemical Technology (KRICT)</li> </ul>	
	<b>Learning Continual Universal User Representation for Recommendation</b>	Jul 2022 – Present
	<ul style="list-style-type: none"> <li>▪ Collaboration with NAVER Shopping</li> </ul>	
<b>AWARDS &amp; SCHOLARSHIPS</b>	<b>CIKM Travel Award</b>	Sep 2022
	<ul style="list-style-type: none"> <li>▪ SIGIR student travel grants for CIKM 2022.</li> </ul>	
	<b>Grand Prize at Seoul Innovation Challenge 2020</b> , Seoul Business Agency	Jan 2021
	<ul style="list-style-type: none"> <li>▪ Barlaw: AI-based legal counseling start-up. <ul style="list-style-type: none"> <li>• 1st place among 444 teams.</li> </ul> </li> </ul>	
	<b>Dean's List</b> , Korea University	Spring 2019
	<ul style="list-style-type: none"> <li>▪ Academic Excellence Award for attaining a semester GPA of 4.5/4.5.</li> </ul>	
	<b>Special Scholarship for the Student Affairs Office</b> , Korea University	Fall 2019, Spring 2020
	<b>Veritas Scholarship</b> , Korea University	Spring 2020
	<ul style="list-style-type: none"> <li>▪ Research on optimize drone routing with trucks for on-demand services <ul style="list-style-type: none"> <li>• Advisor: Prof. Taesu Cheong</li> </ul> </li> </ul>	
	<b>Certificate</b> , Korea National Police Agency	Fall 2018
	<ul style="list-style-type: none"> <li>▪ An exemplary auxiliary police.</li> </ul>	
<b>TEACHING EXPERIENCE</b>	<b>Teaching Assistant</b>	
	<ul style="list-style-type: none"> <li>▪ IE343: Statistical Machine Learning</li> </ul>	Spring 2021, 2022, 2023
	<ul style="list-style-type: none"> <li>▪ CoE202: Basics of Artificial Intelligence</li> </ul>	Fall 2021
<b>PROFESSIONAL SERVICES</b>	<b>Program Committee</b>	
	<ul style="list-style-type: none"> <li>▪ AAAI Conference on Artificial Intelligence (AAAI), 2023</li> </ul>	
	<b>Journal Reviews</b>	
	<ul style="list-style-type: none"> <li>▪ IEEE Transactions on Neural Networks and Learning Systems (TNNLS)</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ World Wide Web</li> </ul>	
<b>REFERENCES</b>	<b>Prof. Chanyoung Park</b>	
	Professor of Industrial and Systems Engineering	
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[CV compiled on 2023-02-28]