

# 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)

- M.S. in Industrial and Systems Engineering Mar 2021 – Present
  - Research Interest: Graph Representation Learning, ML for Chemistry
  - Advisor: Prof. Chanyoung Park

### Korea University

- B.S. in Industrial Management Engineering Mar 2015 – Feb 2021

## POSITIONS

### AISoftKorea

Seoul, Korea

Jun 2020 – Mar 2021

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

### Korean National Police Agency

Daejeon, Korea

Feb 2018 – Nov 2019

- Mandatory military service as department of operations and auxiliary police.

## PUBLICATIONS

### CONFERENCES

- [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

- Collaboration with Korea Research Institute of Chemical Technology (KRICT)

### Predicting Molecular Properties after Chemical Interaction

Mar 2022 – Present

- Collaboration with Korea Research Institute of Chemical Technology (KRICT)

### Learning Continual Universal User Representation for Recommendation

Jul 2022 – Present

- Collaboration with NAVER Shopping

## AWARDS & SCHOLARSHIPS

### CIKM Travel Award

Sep 2022

- SIGIR student travel grants for CIKM 2022.

### Grand Prize at Seoul Innovation Challenge 2020, Seoul Business Agency

Jan 2021

- Barlaw: AI-based legal counseling start-up.
  - 1st place among 444 teams.

	<b>Dean's List</b> , Korea University <ul style="list-style-type: none"> <li>Academic Excellence Award for attaining a semester GPA of 4.5/4.5.</li> </ul>	Spring 2019
	<b>Special Scholarship for the Student Affairs Office</b> , Korea University <b>Veritas Scholarship</b> , Korea University <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>	Fall 2019, Spring 2020 Spring 2020
	<b>Certificate</b> , Korea National Police Agency <ul style="list-style-type: none"> <li>An exemplary auxiliary police.</li> </ul>	Fall 2018
<b>TEACHING EXPERIENCE</b>	<b>Teaching Assistant</b> <ul style="list-style-type: none"> <li>IE343: Statistical Machine Learning, KAIST</li> <li>CoE202: Basics of Artificial Intelligence</li> </ul>	Spring 2021, Spring 2022 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>REFERENCES</b>	<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 2022-11-13]