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 — Jun 2020 – Mar 2021
Seoul, Korea

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

Korean National Police Agency — Feb 2018 – Nov 2019
Daejeon, Korea

- 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 2020 – Mar 2021
Collaboration with Korea Research Institute of Chemical Technology (KRICT)

Predicting Molecular Properties after Chemical Interaction — Mar 2021 – Present
Collaboration with Korea Research Institute of Chemical Technology (KRICT)

Learning Continual Universal User Representation for Recommendation — Jul 2021 – Present
Collaboration with NAVER Shopping

AWARDS & SCHOLARSHIPS

Grand Prize at Seoul Innovation Challenge 2020, Seoul Business Agency — Jan 2021
Barlaw: AI-based legal counseling start-up.
1st place among 444 teams.

Dean's List, Korea University — Spring 2019
Academic Excellence Award for attaining a semester GPA of 4.5/4.5.

Special Scholarship for the Student Affairs Office, Korea University — Fall 2019, Spring 2020

Veritas Scholarship, Korea University — Spring 2020
Research on optimize drone routing with trucks for on-demand services
Advisor: Prof. Taesu Cheong

Certificate, Korea National Police Agency — Fall 2018
An exemplary auxiliary police.

TEACHING EXPERIENCE

IE343: Statistical Machine Learning — Spring 2021, Spring 2022
Department of Industrial and Systems Engineering, KAIST
Teaching Assistant

CoE202: Basics of Artificial Intelligence — Fall 2021
Department of Industrial and Systems Engineering, KAIST
Teaching Assistant, Lab session for Recommendation system

REFERENCES

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