

Sukwon Yun

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RESEARCH INTEREST

Graph Neural Networks

Alleviating and enhancing the *Weakness of Graph Neural Networks*

- Keywords: Long-Tail Problem, Oversmoothing, Heterophily

POSITIONS

Tokyo Institute of Technology (Tokyo Tech), Tokyo, Japan

- Visiting Student in Computer Science Department (Research-oriented) Oct 2022 – Present
 - Host: Prof. Tsuyoshi Murata
 - Focus: Missing Features in GNNs, Heterophily

Korea Advanced Institute of Technology (KAIST), Daejeon, South Korea

- Research Student in Industrial & Systems Engineering Department Dec 2020 – Feb 2021
 - Advisor: Prof. Chanyoung Park
 - Topics: Graph Embeddings, GNNs, Recommender Systems

Hanyang University, Seoul, South Korea

- Research Student in Industrial Engineering Department Sep 2020 – Aug 2021
 - Advisor: Prof. Kichun Lee
 - Topics: Collaborative Filtering based on Graphs, Support Vector Machines

EDUCATION

KAIST, Daejeon, South Korea

- M.S. in Industrial & Systems Engineering Sep 2021 – Present
 - Research Interest: Graph Neural Networks, Recommender Systems, Differential Equations on ML
 - Advisor: Prof. Chanyoung Park

Hanyang University, Seoul, South Korea

- B.S. in Industrial Engineering (*Summa Cum Laude*) Mar 2015 – Aug 2021

PUBLICATIONS

CONFERENCES

[C1] LTE4G: Long-Tail Experts for Graph Neural Networks

Sukwon Yun, Kibum Kim, Kanghoon Yoon, Chanyoung Park

ACM International Conference on Information and Knowledge Management (CIKM 2022)

PROJECTS

Recommending Financial Products based on Graph Embeddings

Feb 2021 – Feb 2022

Collaboration with Hana Bank

AWARDS & SCHOLARSHIPS

SIGIR Student Travel Award

2022

- ACM International Conference on Information and Knowledge Management, Georgia, USA

Hanyang Academic Achievement Award, Hanyang University

2021

- Awarded within top 3% among the College of Engineering

Dean's List, Hanyang University

2018 - 2021

- Academic Excellence Award

Certificate of Recognition, Seoul Metropolitan Police

2018

- Awarded when serving military service as an auxiliary police

TEACHING EXPERIENCE

IE343: Statistical Machine Learning

Spring, 2022

Department of Industrial & Systems Engineering, KAIST

- Hosted Kaggle Competition (Course Project) as a Teaching Assistant

REFERENCES

- **Prof. Chanyoung Park**, Assistant Professor, KAIST
Email: cy.park@kaist.ac.kr
- **Prof. Kichun Lee**, Associate Professor, Hanyang University
Email: skylee@hanyang.ac.kr
- **Prof. Tsuyoshi Murata**, Professor, Tokyo Tech
Email: murata@c.titech.ac.jp

