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

KAIST, Daejeon, South Korea
- Research Student in Industrial & Systems Engineering Department — Dec 2020 – Feb 2021
  - Advisor: Prof. Chanyoung Park
  - Topics: Graph Embeddings, GNNs, Recommeder 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

Korea Adavanced Institute of Technology (KAIST), Daejeon, South Korea
- M.S. in Industial & 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