

# Kibum Kim

M.S STUDENT

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## Research Interest

### Deep Learning/Machine Learning

SCENE UNDERSTANDING, RECOMMENDATION, GRAPH NEURAL NETWORKS

- Learning the model with a focus on achieving a balanced representation, counteracting the long-tailed distribution commonly found in the real-world data.

## Education

### Korea Advanced Institute of Science and Technology (KAIST)

Daejeon, South Korea

M.S IN INDUSTRIAL & SYSTEMS ENGINEERING

Aug 2021 - Jul 2023

- GPA: 3.58/4.3
- Research Interest: Scene Understanding, Recommendation, Graph Neural Network
- Advisor: [Prof. Chanyoung Park](#)

### Hanyang University

Seoul, South Korea

B.S. IN INDUSTRIAL ENGINEERING

Mar 2016 - Jul 2021

- GPA: 4.09/4.5
- Early Graduation
- The period includes two years of military service, required for all Korean men

## Projects

- 2022.06-Present **AI Development for reasoning, extraction, understanding of Common-sense**  
Collaboration with Institute for Information & communications Technology Planning & evaluation (IITP)
- 2021.06-Present **Visual Intelligence Technique Development**  
Collaboration with Electronics and Telecommunications Research Institute (ETRI)
- 2020.12-2021.06 **Recommending Financial Product based on Graph Embeddings**  
Collaboration with Hana Bank

## Publications

### CONFERENCE

- (**SIGIR 2023**) Kibum Kim, Dongmin Hyun, Sukwon Yun, Chanyoung Park. MELT: Mutual Enhancement of Long-Tailed User and Item for Sequential Recommendation. The 46th International ACM SIGIR Conference on Research and Development in Information Retrieval
- (**AAAI 2023**) Kanghoon Yoon\*, Kibum Kim\*, Jinyoung Moon, Chanyoung Park. Unbiased Heterogeneous Scene Graph Generation with Relation-aware Message Passing Neural Network. Proceedings of the AAAI Conference on Artificial Intelligence 2023
- (**CIKM 2022**) Sukwon Yun, Kibum Kim, Kanghoon Yoon, Chanyoung Park. LTE4G: Long-Tail Experts for Graph Neural Networks. Proceedings of the 31st ACM International Conference on Information Knowledge Management

## Awards & Scholarship

**2022 Poster Competition Excellence Award**

Awarded at Industrial/Social Problem Solving Session held by Department of ISysE, KAIST

**2022 Hanyang Academic Achievement Award**

Awarded within the top 3% among the College of Engineering, Hanyang Univ.

**2020 Hanyang Brain Scholarship**

Scholarship for excellent top 5% grade in Industrial Engineering department, Hanyang Univ.

**2020 Outstanding Learning Activities Scholarship**

Outstanding learning activities in communities held by University Innovation Support

**2017 Hanyang Brain Scholarship**

Scholarship for excellent top 5% grade in Industrial Engineering department, Hanyang Univ.

## Teaching Experience

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**Spring 2022 KSE527: Machine Learning for Knowledge Service**

Teaching Assistant

**Fall 2022 KSE801: Recommender System and Graph Machine Learning**

Teaching Assistant

## Talks & Seminars

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**Jun 2023 MELT: Mutual Enhancement of Long-Tailed User and Item for Sequential Recommendation**

Top Conference Session of Korea Computer Congress (KCC) 2023

## Activities

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**2021.12-2022.02 Research intern in Data Science & Artificial Intelligence Lab (DSAIL)**

Implemented key papers on Graph Neural Networks and Recommender Systems ([link](#))

**2018.06-2018.07 Short-term Language Study Program in China**

Cultural exchange activities at [Changchun](#) University

## References

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**Prof. Chanyoung Park**, Assistant professor, KAIST

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