

# Kibum Kim

PH.D STUDENT

[kb.kim@kaist.com](mailto:kb.kim@kaist.com) | [rlqja1107.github.io](https://github.com/rlqja1107) | [kibum-kim-253b01206](https://github.com/kibum-kim-253b01206)

## 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)

PH.D IN INDUSTRIAL & SYSTEMS ENGINEERING

Daejeon, South Korea

Sep 2023 - Present

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

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

M.S IN INDUSTRIAL & SYSTEMS ENGINEERING

Daejeon, South Korea

Aug 2021 - Jul 2023

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

### Hanyang University

B.S. IN INDUSTRIAL ENGINEERING

Seoul, South Korea

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

### PREPRINT

(**Preprint 2023**) Kibum Kim, Kanghoon Yoon, Jaehyeong Jeon, Yeonjun In, Jinyoung Moon, Donghyun Kim, Chanyoung Park. LLM4SGG: Large Language Model for Weakly Supervised Scene Graph Generation.

### CONFERENCE

(**ICLR 2024**) Kibum Kim\*, Kanghoon Yoon\*, Yeonjun In, Jinyoung Moon, Donghyun Kim, Chanyoung Park. Adaptive Self-training Framework for Fine-grained Scene Graph Generation. The Twelfth International Conference on Learning Representations.

(**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

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**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.

## Professional Services

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### Conference Review

- 2023 - AAAI Conference on Artificial Intelligence (AAAI)

### Journal Review

- 2023 - IEEE Transactions on Neural Networks and Learning Systems (TNNLS)

## 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

Email: [cy.park@kaist.ac.kr](mailto:cy.park@kaist.ac.kr)