

# Kibum Kim

PH.D STUDENT

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## Research Interest

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### Deep Learning/Machine Learning

SCENE UNDERSTANDING, LARGE LANGUAGE MODEL, RECOMMENDATION

- **Alleviation of Long-tailed Distribution:** Enhancing the model's capability towards minority classes to counteract the long-tailed distribution commonly found in real-world data.
  - Scene Understanding: [2], [4], [6]
  - Recommendation: [3]
  - Graph Neural Networks: [1]
- **Large Language Models:** Leveraging the generalizability of Large Language Models (LLMs) to address practical challenges, e.g., long-tailed problems.
  - Scene Understanding: [6]

## Education

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

PH.D IN INDUSTRIAL & SYSTEMS ENGINEERING

Daejeon, South Korea

Sep 2023 - Present

- Research Interest: Scene Understanding, Large Language Model, Recommendation
- 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

- 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

## Publications

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### CONFERENCE

- [6] (**CVPR 2024**) [Kibum Kim](#), Kanghoon Yoon, Jaehyeong Jeon, Yeonjun In, Jinyoung Moon, Donghyun Kim, Chanyoung Park. LLM4SGG: Large Language Model for Weakly Supervised Scene Graph Generation. [\[Paper\]](#) [\[Code\]](#)
- [5] (**WWW 2024 (Oral)**) Yeonjun In, Kanghoon Yoon, [Kibum Kim](#), Kijung Shin, Chanyoung Park. Self-guided Robust Graph Structure Refinement. The 2024 ACM Web Conference. [\[Paper\]](#) [\[Code\]](#)
- [4] (**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. [\[Paper\]](#) [\[Code\]](#)
- [3] (**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. [\[Paper\]](#) [\[Code\]](#)
- [2] (**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. [\[Paper\]](#) [\[Code\]](#)

[1] (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. [\[Paper\]](#) [\[Code\]](#)

## Projects

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- 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

## 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)**  
Implementing 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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