

Jiwan Kim

PH.D. CANDIDATE

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Research Interests

Efficient Multimodal LLM

2025.09 – Present

Building high-performance yet efficient multimodal LLMs (usually image and video) at both training and inference time, and leveraging them to solve real-world deployment challenges.

- **On-Device MLLM** — efficiency for training and inference
 - Knowledge Distillation: effective *training* to strengthen small MLLMs [4]
 - Visual Token Pruning & Compression: taming large visual-token cost at *inference* [5], [6]
- **MLLM Applications**
 - Agentic & Tool-Integrated MLLM: agent / tool-use ability for small MLLMs
 - Autonomous Driving, Vision-Language-Action (VLA)

Recommendation System

2024.03 – 2025.07

Multimodal and LLM-based recommender systems — generating missing modalities, building token-efficient item representations, and understanding user behavior with LLMs.

- Multimodal Recommendation (missing-modality generation) [1]
- LLM-based Sequential Recommendation [2], [3], [9]

Education

Korea Advanced Institute of Science and Technology (KAIST)

2026.03 – Present

Ph.D. in Industrial & Systems Engineering

Advisor: Prof. Chanyoung Park (Data Science and Artificial Intelligence Lab, DSAIL)

Korea Advanced Institute of Science and Technology (KAIST)

2024.03 – 2026.02

M.S. in Industrial & Systems Engineering

Advisor: Prof. Chanyoung Park (Data Science and Artificial Intelligence Lab, DSAIL)

GPA: 4.08 / 4.3

Seoul National University

2016.03 – 2022.08

B.S. in Statistics (major), Computer Science (double major)

GPA: 3.67 / 4.3 (Cum Laude)

Selected Publications

Why and When Visual Token Pruning Fails? A Study on Relevant Visual Information Shift in MLLMs Decoding

Jiwan Kim, Kibum Kim, Wonjoong Kim, Byung-Kwan Lee, Chanyoung Park

European Conference on Computer Vision (ECCV 2026) [Paper] [Project Page]

CompoDistill: Attention Distillation for Compositional Reasoning in Multimodal LLMs

Jiwan Kim, Kibum Kim, Sangwoo Seo, Chanyoung Park

International Conference on Learning Representations (ICLR 2026) [Paper] [Code] [Project Page]

Disentangling and Generating Modalities for Recommendation in Missing Modality Scenarios

Jiwan Kim, Hongseok Kang, Sein Kim, Kibum Kim, Chanyoung Park

ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2025) [Paper] [Code]

Publications

UNDER REVIEW

[9] Revisiting CF-Integrated LLM Recommenders through Dimensional Collapse

Jimin Seo, HongSeok Kang, Sein Kim, Jiwan Kim, Chanyoung Park

Under Review

[8] GeoGater: Meta-Feature Guided Adaptive Routing for Worldwide Image Geolocalization

Hoyoung Choi, Sungwon Kim, Jiwan Kim, Chanyoung Park

Under Review

[7] Adaptive Graph Rewiring to Mitigate Over-Squashing in Mesh-Based GNNs for Fluid Dynamics Simulations

Sangwoo Seo, Hyunsung Kim, **Jiwan Kim**, Chanyoung Park

Under Review [\[Paper\]](#)

CONFERENCE

[6] Sink-Token-Aware Pruning for Fine-Grained Video Understanding in Efficient Video LLMs

Kibum Kim, **Jiwan Kim**, Kyle Min, Yueqi Wang, Jinyoung Moon, Julian McAuley, Chanyoung Park

European Conference on Computer Vision (ECCV 2026) [\[Paper\]](#) [\[Code\]](#)

[5] Why and When Visual Token Pruning Fails? A Study on Relevant Visual Information Shift in MLLMs Decoding

Jiwan Kim, Kibum Kim, Wonjoong Kim, Byung-Kwan Lee, Chanyoung Park

European Conference on Computer Vision (ECCV 2026) [\[Paper\]](#) [\[Project Page\]](#)

[4] CompoDistill: Attention Distillation for Compositional Reasoning in Multimodal LLMs

Jiwan Kim, Kibum Kim, Sangwoo Seo, Chanyoung Park

International Conference on Learning Representations (ICLR 2026) [\[Paper\]](#) [\[Code\]](#) [\[Project Page\]](#)

[3] Token-Efficient Item Representation via Images for LLM Recommender Systems

Kibum Kim, Sein Kim, HongSeok Kang, **Jiwan Kim**, Heewoong Noh, Yeonjun In, Kanghoon Yoon, Jinoh Oh, Julian McAuley, Chanyoung Park

International Conference on Learning Representations (ICLR 2026) [\[Paper\]](#) [\[Code\]](#)

[2] Lost in Sequence: Do Large Language Models Understand Sequential Recommendation?

Sein Kim, Hongseok Kang, Kibum Kim, **Jiwan Kim**, Donghyun Kim, Minchul Yang, Kwangjin Oh, Julian McAuley, Chanyoung Park

ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2025) [\[Paper\]](#) [\[Code\]](#)

[1] Disentangling and Generating Modalities for Recommendation in Missing Modality Scenarios

Jiwan Kim, Hongseok Kang, Sein Kim, Kibum Kim, Chanyoung Park

ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2025) [\[Paper\]](#) [\[Code\]](#)

Academic Service

Conference Reviewer

- Conference on Neural Information Processing Systems (NeurIPS) 2026 – Present
- International Conference on Information and Knowledge Management (CIKM) 2025 – Present

References

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Byung-Kwan Lee

Research Scientist, NVIDIA

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