

Kangsan Kim

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Research Interests

My research interest lies in developing AI assistants that understand the world and interact with humans through visual data. Previous works focus on video understanding for real-world applications, including out-of-domain video understanding and video-based multimodal RAG. I am also interested in embodied MLLMs that operate on egocentric video with strong spatial reasoning ability.

Education

KAIST Ph.D. in Artificial Intelligence Advisor: Prof. Sung Ju Hwang	Seoul, S. Korea Mar 2024 - Present
KAIST B.S. in Computer Science Minor in Business and Technology Management	Daejeon, S. Korea Mar. 2018 - Feb. 2024

Experience

New York University Visiting Student (Adviser: Prof. Mengye Ren) Studying question answering over egocentric video streams from multiple embodied agents.	Brooklyn, NY, United States Jul 2025 - Current
B GARAGE Computer Vision Engineer Intern Developed an ultra-fast edge instance segmentation model that can segment anything in the warehouse.	San Jose, CA, United States Oct 2022 - Jul 2023
NAVER (Papago) Machine Learning(NLP) Scientist Intern Built and improved end-to-end Korean-English speech translation model.	Remote Jul 2021 - Nov 2021

Publications

HoliSafe: Holistic Safety Dataset and Benchmark for Vision-Language Models
Youngwan Lee, [Kangsan Kim](#), Kwanyong Park, Ilchae Jung, Soojin Jang, Seanie Lee, Yong-Ju Lee, Sung Ju Hwang
Under review, 2025

UniversalRAG: Retrieval-Augmented Generation over Multiple Corpora with Diverse Modalities and Granularities
Woongyeong Yeo*, [Kangsan Kim](#)*, Soyeong Jeong, Jinheon Baek, Sung Ju Hwang
Under review, 2025

VideoRAG: Retrieval-Augmented Generation over Video Corpus
Soyeong Jeong*, [Kangsan Kim](#)*, Jinheon Baek*, Sung Ju Hwang
Findings of the Association for Computational Linguistics (**ACL Findings**), 2025

VideoICL: Confidence-based Iterative In-context Learning for Out-of-Distribution Video Understanding
[Kangsan Kim](#)*, Geon Park*, Youngwan Lee, Woongyeong Yeo, Sung Ju Hwang
Conference on Computer Vision and Pattern Recognition (**CVPR**), 2025

*: equal contribution

Honors

Qualcomm-KAIST Innovation Award, 2023

Dean's List, College of Engineering, 2020 Spring