

Woongyeong Yeo

M.S. Student

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Research Interests

My research interests lie in the development of multimodal large language models (MLLMs) with a strong focus on their practical applications in real-world scenarios. Previous work includes video understanding for out-of-distribution (OOD) scenarios and multimodal retrieval-augmented generation (RAG). Recently, I am working on memory agents, enabling MLLMs to store, retrieve, and reason over ultra-long context sequences. In short, my research areas include, but are not limited to:

- Multimodal Large Language Models;
- Video Understanding;
- MLLM Memory Agent.

Education

M.S. in Artificial Intelligence

Korea Advanced Institute of Science and Technology (KAIST)
Advisor: Prof. Sung Ju Hwang

Sep 2025 – Present
Seoul, South Korea

B.S. in Computer Science and Mathematical Sciences (minor)

Korea Advanced Institute of Science and Technology (KAIST)

Feb 2020 – Aug 2025
Daejeon, South Korea

Research Experience

Graduate Research Assistant

MLAI Lab @ KAIST (Advisor: Prof. Sung Ju Hwang)

Sep 2025 – Present
Seoul, South Korea

Undergraduate Research Intern

MLAI Lab @ KAIST (Advisor: Prof. Sung Ju Hwang)

Jun 2024 – Aug 2025
Seoul, South Korea

Undergraduate Research Intern

KAIST Visual AI Group (Advisor: Prof. Minhyuk Sung)

Feb 2024 – Jun 2024
Daejeon, South Korea

Publications

* denotes equal contribution

Preprints

[P2] UniversalRAG: Retrieval-Augmented Generation over Corpora of Diverse Modalities and Granularities

Woongyeong Yeo*, Kangsan Kim*, Soyeong Jeong, Jinheon Baek, Sung Ju Hwang
arXiv Preprint, 2025.

[P1] Humanity's Last Exam

Long Phan*, Alice Gatti*, Ziwen Han*, Nathaniel Li*, ..., Woongyeong Yeo, ..., Summer Yue, Alexandr Wang, Dan Hendrycks
arXiv Preprint, 2025.

Conference Papers

[C1] VideoICL: Confidence-based Iterative In-context Learning for Out-of-Distribution Video Understanding

Kangsan Kim*, Geon Park*, Youngwan Lee, Woongyeong Yeo, Sung Ju Hwang
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025.

Journal Articles

[J1] Group rings satisfying nil clean property

Sehoon Eo, Seungjoo Hwang, Woongyeong Yeo
Communications of the Korean Mathematical Society (CKMS), Volume 35, Issue 1, 2020.

Teaching

Undergraduate Teaching Assistant

CS101: Introduction to Programming, KAIST

Fall 2021

Academic Tutor

CS101: Introduction to Programming, KAIST

Spring 2021