Hyung Kyu Kim

Ph.D. Student at Chung-Ang University

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RESEARCH INTERESTS

My research focuses on integrating heterogeneous domain data through ***multimodal learning***, with the goal of enabling systems to understand and interact with humans across diverse modalities. I explore techniques that effectively combine visual, linguistic, and auditory information, and investigate ***multimodal large language models (MLLMs)*** to extend the capabilities of language models beyond text. Building on this foundation, my current work is centered on developing interactive systems capable of ***socially-aware understanding*** and reasoning across modalities.

Multimodal LLM (MLLM)	**Cross-modal Learning**	**Social Artificial Intelligence**
- LLM + Visual/Audio	*- Language + Visual/Audio*	*- Social Understanding/Reasoning*

EDUCATION

Chung-Ang University Mar 2025 – Present
- Ph.D in Imaging Science and Arts
- Advisor: Prof. Hak Gu Kim

Chung-Ang University Mar 2023 – Feb 2025
- M.S. in Imaging Science and Arts
- Advisor: Prof. Hak Gu Kim

Konkuk University Mar 2016 – Feb 2023
- B.S in Computer Science and Engineering

AWARDS

Best paper award
- in 37th Workshop on Image Processing and Image Understanding (2025)

PUBLICATION

1. **MemoryTalker: Personalized Speech-Driven 3D Facial Animation via Audio-Guided Stylization**
   <u>Hyung Kyu Kim</u>*, Sangmin Lee*, and Hak Gu Kim (*equal contribution)
   International Conference on Computer Vision (ICCV) 2025

2. **Learning Phonetic Context-Dependent Viseme for Enhancing Speech-Driven 3D Facial Animation**
   <u>Hyung Kyu Kim</u> and Hak Gu Kim
   Interspeech 2025

3. **Analyzing Visible Articulatory Movements in Speech Production for Speech-Driven 3D Facial Animation**
   <u>**Hyung Kyu Kim**</u>, Sangmin Lee and Hak Gu Kim
   IEEE International Conference on Image Processing (ICIP) 2024

4. **Unveiling the Potential of Multimodal Large Language Models for Scene Text Segmentation via Semantic-Enhanced Features**
   Ho Jun Kim*, <u>**Hyung Kyu Kim***</u>, Sangmin Lee and Hak Gu Kim (*equal contribution)
   IEEE International Conference on Image Processing Workshop (ICIPW) 2024