

Jieun Kim

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RESEARCH INTEREST

My research focuses on **vision**, **multimodal learning**, and **trustworthy AI (XAI)**. I'm particularly interested in understanding how models perceive and reason about the visual world, and how we can ensure their outputs are interpretable and reliable.

EDUCATION

- **Yonsei University** Mar.2024 - *Present*
Ph.D., Artificial Intelligence (Expected Graduation: Feb. 2028) Seoul, Korea
- **Keimyung University** Mar.2021 - Feb.2023
M.S., Computer Engineering Daegu, Korea
- **Keimyung University** Mar.2017 - Feb.2021
B.S., Computer Engineering Daegu, Korea

SELECTED PUBLICATIONS

Spatial Reasoning in Large Vision-Language Models via Egocentric-to-Allocentric Transformation

Yoonji Kim*, Jieun Kim* and Sung-Bae Cho

EMNLP 2026 Findings

Injecting Context via Situation Working Memory for Logical Reasoning with LLMs

Jieun Kim, Seoha Lim, Young-Hae Choi and Sung-Bae Cho

ACL 2026

Diagnosing Spatial Consistency across Perspectives and Viewpoints in Large Vision-Language Models

Yoonji Kim, Jieun Kim, Yujin Jeong and Sung-Bae Cho

ACL 2026

Adaptive Beam Search with Shannon Entropy for Data-centric Reasoning in LLMs

Yoonji Kim*, Yujin Jeong*, Jieun Kim and Sung-Bae Cho

PAKDD 2026

Hierarchical Prototype Learning for Semantic Segmentation

Seoha Lim*, Jinmyeong Kim*, Jieun Kim and Sung-Bae Cho

ICLR 2026

Visual-Linguistic Abductive Reasoning with LLMs for Knowledge-based Visual Question Answering

Jieun Kim, Yujin Jeong and Sung-Bae Cho

EACL 2026

Fuzzy Contrastive Decoding to Alleviate Object Hallucination in Large Vision-Language Models

Jieun Kim, Jinmyeong Kim, Yoonji Kim and Sung-Bae Cho

ICCV 2025

Visual Question Answering: A Survey of Methods, Datasets, Evaluation, and Challenges

Byeong Su Kim, Jieun Kim, Deokwoo Lee and Beakcheol Jang

ACM Computing Surveys, Vol. 57, No. 10, pp. 1–35, 2025 (IF 23.8)

**Equal contribution*

RESEARCH & WORK EXPERIENCES

- **Research Student**
Soft Computing Lab, Yonsei University, Korea

◦ **Focus: Trustworthy AI (XAI)** for multimodal and agentic systems

◦ **Multimodal Model**
 - * **Hallucination mitigation** — fuzzy rule-based contrastive decoding
 - * ongoing: attention-based steering, co-occurrence bias removal [ongoing]
 - * **Logical reasoning** — abductive reasoning, situation working memory
 - * **Representation learning** — hierarchical prototype learning
 - * **Spatial reasoning** — perspective/viewpoint consistency

◦ **Multi-Agent LLM Systems**
 - * **Orchestration** — BDI-based multi-agent framework [ongoing]
 - * **Failure attribution** — error localization in agent trajectories [ongoing]

• **Research Student**
AndLab, Korea

◦ **Visual Question Answering** — survey, *ACM Computing Surveys*

• **Research Student**
ISIP Lab, Korea

◦ **Facial expression recognition** — spatial transformer networks, CNNs

• **Research Assistant**
DGIST, Korea

◦ **Camera calibration** — relative orientation, unsynchronized viewpoints

LEADERSHIP

• **Leader of Neuro-Symbolic Research Group**
Soft Computing Lab, Yonsei University

◦ **Mentoring** — junior researchers, acceptances at *ICLR 2026*, *PAKDD 2026*, *ACL 2026*

• **Women Graduate Student Engineering Research Team Program**
Korea Women in Science and Technology Foundation, Korea

◦ **Principal Investigator** — Korean Visual Question Answering (VQA) model

REGISTERED SOFTWARE (COPYRIGHT)

• **Working Memory for LLM Agent**
Korea Copyright Commission (No. C-2025-038246)

2025

• **Dual LLM Improving Symbolic Logic for Knowledge-based Visual Reasoning Model**
Korea Copyright Commission (No. C-2024-035398)

2024

• **LoCoT: Logical Chain of Thought Reasoning for Visual Language Model**
Korea Copyright Commission (No. C-2024-035781)

2024

SKILLS

• **Programming:** Python, C, C++, C#, Kotlin, JavaScript

• **Frameworks:** PyTorch, TensorFlow

• **Research Methods:** LoRA fine-tuning, multi-agent LLM orchestration, attention-based interpretability probing, LVLm benchmark evaluation

• **Languages:** Korean (Native), English

ACADEMIC SERVICE

• **Reviewer:** *NeurIPS 2026*