Jieun Kim

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Reasearch 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 — Deagu, Korea
- **Keimyung University** — *Mar.2017 Feb.2021*
  B.S., Computer Engineering — Deagu, Korea

Selected Publications

C=Conference, J=Journal, P=Patent, S=In Submission

[C.6] Yoonji Kim*, Yujin Jeong*, **Jieun Kim** and Sung-Bae Cho. **Adaptive Beam Search with Shannon Entropy for Data-centric Reasoning in LLMs**. *The 30th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)*, Jun, 2026.

[C.5] Seoha Lim*, Jinmyeong Kim*, **Jieun Kim** and Sung-Bae Cho. **Hierarchical Prototype Learning for Semantic Segmentation**. *The Fourteenth International Conference on Learning Representations (ICLR)*, April, 2026.

[C.4] **Jieun Kim**, Yujin Jeong, and Sung-Bae Cho. **Visual–Linguistic Abductive Reasoning with LLMs for Knowledge-based Visual Question Answering**. *The 19th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, Mar, 2026.

[C.3] **Jieun Kim**, Jinmyeong Kim, Yoonji Kim, and Sung-Bae Cho. **Fuzzy Contrastive Decoding to Alleviate Object Hallucination in Large Vision-Language Models**. *The IEEE/CVF Conference on International Conference on Computer Vision (ICCV)*, Oct, 2025.

[C.2] **Jieun Kim** and Deokwoo Lee. **Estimation of a Relative Camera Orientation with Few Correspondences Using Unsynchronized Viewpoints**. *The 19th International Conference on Multimedia Information Technology and Applications*, Jul. 11–15, 2023, Ostrava, Czech Republic.

[C.1] **Jieun Kim**, Eung-Joo Lee, and Deokwoo Lee. **Recognition of Facial Expression Using Spatial Transformation Network and Convolutional Neural Network**. *Pattern Recognition and Tracking XXXIII*, 121010J, May 27, 2022.

[J.1] Byeong Su Kim, **Jieun Kim**, Deokwoo Lee, and Beakcheol Jang. **Visual Question Answering: A Survey of Methods, Datasets, Evaluation, and Challenges**. *ACM Computing Surveys*, Vol. 57, No. 10, pp. 1–35, 2025. (IF 23.8)

Research & Work Experiences

- **Research Student** — *Dec 2024 – Present*
  Soft Computing Lab, Korea
- **Research Student** — *Mar 2023 – May 2023*
  AndLab, Korea
- **Research Student** — *Jan 2021 – Feb 2023*
  ISIP Lab, Korea
- **Research Assistant** — *Jan 2022 – Dec 2022*
  DGIST, Korea

Leadership

- **Leader of Neuro-Symbolic Research Group** — *Feb 2024 - Present*
  Soft Computing Lab,Yonsei University
  ◦ Mentored junior researchers leading to paper acceptances at ICLR 2026 and PAKDD 2026.
- **Women Graduate Student Engineering Research Team Program** — *May 2022 - Oct 2022*
  Korea Women in Science and Technology Foundation, Korea
  ◦ Principal Investigator for the development of a Korean Visual Question Answering (VQA) model.

Registered Software (Copyright)

◦ **Working Memory for LLM Agent** *2025*
Korea Copyright Commission (Registration No. C-2025-038246)
∗ Registered software implementing a working memory mechanism for large language model (LLM) agents, inspired by human situational memory.

◦ **Dual LLM Improving Symbolic Logic for Knowledge-based Visual Reasoning Model** *2024*
Korea Copyright Commission (Registration No. C-2024-035398)
∗ Registered software for improving symbolic logic reasoning in knowledge-based visual understanding models using dual large language models.

◦ **LoCoT: Logical Chain of Thought Reasoning for Visual Language Model** *2024*
Korea Copyright Commission (Registration No. C-2024-035781)
∗ Registered software for logical chain-of-thought reasoning in visual-language models.

Skills

◦ **Programming Languages:** Python, C, C++, C#, Kotlin, JavaScript
◦ **Deep Learning Frameworks:** PyTorch, TensorFlow
◦ **Languages:** Korean (Native), English