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

Publications

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

[C.8] Jieun Kim, Jinmyeong Kim, Yoonji Kim, and Sung-Bae Cho*. **Fuzzy Contrastive Decoding to Alleviate Object Hallucination in Large Vision-Language Models**. *International Conference on Computer Vision (ICCV)*, 2025, Hawaii, USA.

[C.7] Jieun Kim, Eung-Joo Lee, and Deokwoo Lee*. **Recognition of Facial Expression Using Spatial Transformation Network and Convolutional Neural Network**. *Proc. SPIE 12101, Pattern Recognition and Tracking XXXIII*, 121010J, May 27, 2022.

[C.6] Jieun Kim, Ju O Kim, Seungwan Je, and Deokwoo Lee*. **Facial Expression Recognition Using Visual Transformer with Histogram of Oriented Gradients**. *Electronic Imaging 2023: Image Processing, Algorithms, and Systems XXI*, Jan. 19, 2023. (Oral)

[C.5] Jieun Kim and Deokwoo Lee*. **Estimation of a Relative Camera Orientation with Few Correspondences Using Unsynchronized Viewpoints**. *MITA 2023*, Jul. 11–15, 2023, Ostrava, Czech Republic.

[C.4] Jieun Kim, Jisu Kim, and Deokwoo Lee*. **Facial Expression Recognition Using Deep Neural Network Model and Face Image Alignment Network**. *Korea Electronics Engineering Association Autumn Conference*, Nov. 2021, Songdo Convention Center, Incheon, Korea. (Oral)

[C.3] Jieun Kim and Deokwoo Lee*. **Facial Expression Recognition Using Spatial Variation Network and Convolutional Neural Network**. *IPIU 2022*, Feb. 2022, Korea.

[C.2] Jieun Kim and Deokwoo Lee*. **Information-based Q&A System Based on Visual Information Using Attention Mechanism and Image Captions**. *Spring Conference of the Korean Multimedia Society*, May 13–14, 2022, Busan, Korea. (Best Paper)

[C.1] Jieun Kim and Deokwoo Lee*. **Visual Question Answering Using Deformable Convolutional Networks**. *Korea Electronics Engineering Association (KEEA) Fall Conference*, Nov. 25–26, 2022, Gonjiam Resort, Gwangju, Gyeonggi-do, Korea.

[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)

[S.1] Jieun Kim, Yujun Jung and Sung-Bae Cho. **Visual–Linguistic Abductive Reasoning with LLMs for Knowledge-based Visual Question Answering**. Submitted to *EACL 2026*.

Honors and Awards

- **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.
- **Grand Prize** — *Dec 2022*
  Education Open Data Analysis and Utilization Contest

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.

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

Skills

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