

# 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

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|---|---|
| • <b>Yonsei University</b><br>Ph.D., Artificial Intelligence (Expected Graduation: Feb. 2028) | Mar.2024 - <b>Present</b><br>Seoul, Korea |
| • <b>Keimyung University</b><br>M.S., Computer Engineering                                    | Mar.2021 Feb.2023<br>Daegu, Korea         |
| • <b>Keimyung University</b><br>B.S., Computer Engineering                                    | Mar.2017 Feb.2021<br>Daegu, Korea         |

## PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION

- [C.9] 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.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)*, Oct, 2025.
- [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)

## HONORS AND AWARDS

- |   |                     |
|---|---------------------|
| • <b>Women Graduate Student Engineering Research Team Program</b><br>Korea Women in Science and Technology Foundation, Korea<br>◦ Principal Investigator for the development of a Korean Visual Question Answering (VQA) model. | May 2022 - Oct 2022 |
| • <b>Grand Prize</b><br>Education Open Data Analysis and Utilization Contest  | Dec 2022            |

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)