

# 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

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

- **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)

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### • 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

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### • 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

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

• **Deep Learning Frameworks:** PyTorch, TensorFlow

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