Jaehwan Jeong

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RESEARCH INTERESTS

3D reconstruction, Robot operating system, Autonomous driving
AI safety, Generative model, Multi-modal learning
Machine learning, Deep learning, Computer vision

EDUCATION

- **Korea University** — *Mar. 2024 - Fe. 2029 (Expected)*
  Ph.D. - Artificial Intelligence — Seoul, South Korea
- **Chung-Ang University** — *Mar. 2017 - Fe. 2021*
  B.E. - Electrical & Electronic Engineering — Seoul, South Korea

EXPERIENCE

- **Structures-Computer Interaction Lab @ University of California, Los Angeles** — *Mar. 2025 - Present*
  Visiting Graduate Researcher (Advisor: Prof. Khalid)
  ○ End-to-end development of crop-aware field robot system for 3D farm reconstruction and navigation using 3DGS SLAM and RTG-based teleoperation (*in progress*)

- **Computer Vision Lab @ Korea University** — *Mar. 2024 - Fe. 2025*
  Ph.D. Student Researcher (Advisor: Prof. Sangpil Kim)
  ○ Adversarial noise for Deepfake AI safety *(collaborated with Dr. Jaewook Chung @ Samsung Research)* - **[C2]**
  ○ Multi-modal audio-to-video generation *(collaborated with Dr. Eugenio Culurciello @ Purdue Univ.)* - **[J1]**

- **Computer Vision Lab @ Korea University** — *Jul. 2023 - Fe. 2024*
  Undergraduate Research Intern (Advisor: Prof. Sangpil Kim)
  ○ Diffusion-based video generation *(collaborated with Dr. Wonmin Byeon @ NVIDIA Research)* - **[C1]**

- **Military Officer** — *Mar. 2021 - Jun. 2023*
  Signal Company, 5th Armored Brigade, Republic of Korea Army
  ○ Wired communication network management (UTP, Optical cables) - 1st Lieutenant
  ○ Operations and Tactical Planner - 2nd Lieutenant

PUBLICATIONS

C=CONFERENCE, J=JOURNAL

[C2] **Jaehwan Jeong**, Sumin In, Sieun Kim, Shin han yi, Jonghen Jeong, Sang Ho Yoon, Jaewook Chung, Sangpil Kim, *FaceShield: Defending Facial Image against Deepfake Threats*, International Conference on Computer Vision (**ICCV**) 2025 [PDF]

[C1] Gyeongrok Oh, **Jaehwan Jeong**, Sieun Kim, Wonmin Byeon, Jinkyu Kim, Sungwoong Kim, Sangpil Kim, *MEVG: Multi-event Video Generation with Text-to-Video Models*, European Conference on Computer Vision (**ECCV**) 2024 [PDF]

[J1] Sieun Kim, **Jaehwan Jeong**, Sumin In, Seung Hyun Lee, Seungryong Kim, Saerom Kim, Wooyeol Baek, Sang Ho Yoon, Eugenio Culurciello, Sangpil Kim, *Semantically Complex Audio to Video Generation with Audio Source Separation*, Engineering Applications of Artificial Intelligence (Elsevier, **JCR IF Top 10%**) 2025 [PDF]

ACADEMIC SERVICE

- **Conference Reviewer**
  IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025
  IEEE/CVF International Conference on Computer Vision (ICCV), 2025
  The 29th International Conference on Developments in Language Theory (DLT), 2025
- **Journal Reviewer**
  Computer Vision and Image Understanding (CVIU), 2025
  Engineering Applications of Artificial Intelligence (EAAI), 2025

SKILLS

- **Programming**
  PyTorch, TensorFlow, Hugging Face, scikit-learn, OpenCV, Open3D,
  ROS (Robot Operating System), Flask, WebRTC (Janus)
- **Languages**
  Native speaker in Korean
  Fluent in English