Inseok Jeon

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Contact Information

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Links: Homepage, Git-Hub, Linked-In, Google Scholar

Research Interests

My research centers on video as a multimodal, temporally rich, and structurally complex data modality. In particular, I focus on two complementary directions in the video domain: video generation and video understanding. I am especially motivated by problems involving: (1) multimodal-conditioned controllable video generation and editing, (2) coherent generation for long-form video content with temporal and motion-aware consistency, and (3) video understanding of complex actions and events.

Education

Yonsei University, Seoul, Republic of Korea
M.S. in *Electrical and Electronic Engineering* — **Sep. 2024 – Current**
- ✓ Image and Video Pattern Recognition (MVP) Lab
- ✓ Advisor: Prof. Sangyoun Lee
- ✓ Area of Study: Computer Vision, Machine Learning

Kwangwoon University, Seoul, Republic of Korea
B.S. in *Robotics* — Mar. 2020 – Aug. 2024

Publications

Seen-to-Scene: Keep the Seen, Generate the Unseen for Video Outpainting
Inseok Jeon, Minhyeok Lee, Seunghoon Lee, Minseok Kang, Suhwan Cho, Sangyoun Lee
The 36th *IEEE/CVF Conference on Computer Vision and Pattern Recognition* (**CVPR**), 2026, Denver, CO
CVPR Findings (Acceptance rate: 5807 / 16,092 ≈ 35.9%)

CMTM: Cross-Modal Token Modulation for Unsupervised Video Object Segmentation
Inseok Jeon, Suhwan Cho, Minhyeok Lee, Seunghoon Lee, Minseok Kang, *et al.*
The 32nd *IEEE International Conference on Image Processing* (**ICIP**), 2025, Anchorage, AK
Oral Presentation (Acceptance rate: 60 / 2000 ≈ 3.0%)

Recent Preprints

Revisiting Weakly-Supervised Video Scene Graph Generation via Pair Affinity Learning
Minseok Kang, Minhyeok Lee, Minjung Kim, Jungho Lee, ..., **Inseok Jeon**, *et al.*
arXiv, 2026.

WDFG: Wavelet Based Dual Frequency Guidance via Foundation Model Priors for Depth From Focus
Jeongho Park, Sungmin Woo, Wonjoon Lee, **Inseok Jeon**, Sangyoon Lee
Under review, 2026.

Research Experience

Yonsei University, Seoul, Republic of Korea
Research Intern with *Prof. Bumsub Ham* in *Computer Vision (CV) Lab* — Jan. 2024 – Mar. 2024

Kwangwoon University, Seoul, Republic of Korea
Research Intern with *Prof. Yonghoon Choi* in *Fintech and AI Robotics Lab* — Feb. 2023 – Dec. 2023

Awards & Honors

Academic Excellence Scholarship, *Yonsei University, 2025*
Outstanding Freshman Scholarship, *Yonsei University, 2024*
Ranked 9th out of 257 teams, Mobility SW Hackathon, *Hyundai Mobis, 2024*
Special Award, Seoul Virtual Autonomous Driving Challenge, *Seoul Metropolitan Government, 2023*
Best Idea Award, International R-BIZ Challenge, *MOTIE, KIRIA, KAR, 2023*
Academic Excellence Scholarship, *Kwangwoon University, 2023*
Academic Excellence Scholarship, *Kwangwoon University, 2021*

Professional Services

Conference Reviewer

2026 European Conference on Computer Vision *(ECCV)*

Project Experience

Development of Integrated Multi-Sensor Object Tracking for Cross Domain Conditions

Researcher in collaboration with *LIG Nex1* Sep. 2024 – Dec. 2025

Teaching Experience

Digital Logical Circuits

Teaching Assistant for Digital Logical Circuits under *Prof. Sangyoun Lee* Mar. 2025 – Current

Certifications

Engineer Information Processing

National Technical Qualification, Republic of Korea

Skills

Languages: Python, C++, C, MATLAB, Java
Frameworks: Pytorch, TensorFlow, OpenCV, ROS, ROS2
Platforms: Linux, Windows