Siyeol Jung

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RESEARCH INTERESTS

• Human Motion Modeling, Multimodal Social Interaction, Multimodal Generation

EDUCATION

Carnegie Mellon University, United States   **Aug. 2025 – Feb. 2026**
Visiting Student

UNIST, KOREA   **Mar. 2024 – Present**
M.S in Artificial Intelligence
Advisor: Prof. Taehwan Kim

Soongsil University, KOREA   **Mar. 2018 – Feb. 2024**
B.S in Software

RESEARCH EXPERIENCE

Research Intern at IMML LAB, UNIST, Korea   **Jul. 2023 – Feb. 2024**
• Conducted research on Talking Face Generation and Multimodal Listener Generation, with an emphasis on high-fidelity image synthesis and the generation of empathetic listener motions.

Visiting Student at CNIT, Purdue University, United States   **Mar. 2023 – Jun. 2023**
• Led a research team to develop a contrastive learning-based sentiment analysis model using hierarchical modeling approaches, and coordinated the writing of a research paper.

PUBLICATIONS

• **DyaDiT: A Multi-Modal Diffusion Transformer for Socially Favorable Dyadic Gesture Generation**
  Yichen Peng, Jyun-Ting Song, **Siyeol Jung**, Ruofan Liu, Haiyang Liu, Xuangeng Chu, Ruicong Liu, Erwin Wu, Hideki Koike, Kris Kitani
  CVPR 2026
• **Cross-Modal Emotion Transfer for Emotion Editing in Talking Face Video**
  Chanhyuk Choi, Taesoo Kim, Donggyu Lee, **Siyeol Jung**, Taehwan Kim
  CVPR 2026
• **Environmental Understanding Vision-Language Model for Embodied Agent**
  Jinsik Bang, Jaeyeon Bae, Donggyu Lee, **Siyeol Jung**, Taehwan Kim
  Findings of CVPR 2026
• **DiffListener: Discrete Diffusion Model for Listener Generation**
  Siyeol Jung, Taehwan Kim
  ICASSP, 2025
• **Crafting Query-Aware Selective Attention for Single Image Super-Resolution**
  Junyoung Kim, Youngrok Kim, **Siyeol Jung**, Donghyun Min
  Preprint, 2025
• **Music Emotion Recognition Using Hierarchical Contrastive Learning**
  Siyeol Jung, Yubin Choi, E. Cho Smith, Mia Y. Wang
  AIxHeart, 2024

PATENTS

• **METHOD AND ROBOT TO GUIDE PATH FOR THE BLINDS**, KR-Application No. 10-2019-003587
  Youngjong Kim, Hakyoun Kim, Kwanghoon Park, **Siyeol Jung**, Junwoo Jung, Yeeun Heo

PROJECTS

Galaxy Image Restoration Project (Collaborative Project with Yonsei Univ)   **Mar. 2024 - Present**
• Applied Transformer-based architectures to restore degraded galaxy images captured by ground-based telescopes.
• Proposed and implemented novel enhancements to improve restoration fidelity and generalization performance.

EXTRACURRICULAR ACTIVITIES

Research Manager at R&Dix, KOREA   **Mar. 2022 – Dec. 2025**

• Led research projects on super-resolution in Computer Vision and Retrieval Augmented Generation (RAG), proposing novel architectures and contributing to performance optimization.
• Managed a team of student researchers, setting research agendas and coordinating weekly reading groups and experiment discussions to drive progress across multiple projects.

SCHOLARSHIPS

Academic excellence scholarship, Soongsil University, Korea   (2022-1, 2022-2)
Creative innovation leader scholarship, KT, Korea   (2022- 1, 2022-2, 2023-1)

SKILLS

Software Tool Skills: Python, Pytorch, C/C++, Linux, Django
Language: Korean(native), English(intermediate)