

Siyeol Jung

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EDUCATION

Carnegie Mellon University, United States

Aug. 2025 – Present

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

- **DiffListener: Discrete Diffusion Model for Listener Generation**

Siyeol Jung, Taehwan Kim

ICASSP2025

- **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

AIxHeart2024

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 – Present

- 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)