

Ji Ha Jang

CONTACT INFORMATION

Affirmation: Intelligent Computational Imaging Lab. (ICL), Seoul National University (SNU)

Email: jeeit17@snu.ac.kr

Website: <https://jeeit17.github.io>

RESEARCH INTEREST

My research focuses on developing fine-grained and structured AI systems that can model complex relationships within and across modalities. I am particularly interested in how AI systems can hierarchically acquire, represent, and reason about knowledge in a way that mirrors human understanding.

My recent work explores part-whole compositionality, uncertainty-aware representation learning, and interaction-centric understanding. In particular, I study how semantic structures, including part-whole relationships and interaction dynamics, can be effectively encoded in both hyperbolic embedding spaces and 3D environments. I have also investigated how such structured representations enable more precise generation and manipulation in 3D, as well as more robust cross-modal alignment. My research interests include, but are not limited to:

- Hierarchical and fine-grained understanding
- Common-sense and interaction reasoning
- Multimodal and generative AI
- 3D compositional scene understanding
- Common-sense grounded robotic perception and interaction

EDUCATION

Seoul National University (SNU)

M.S./Ph.D. Student in Electrical and Computer Engineering

Advisor: Se Young Chun

Seoul, Republic of Korea

Mar. 2023 – Current

Seoul National University (SNU)

B.S. in Electrical and Computer Engineering

Advisor: Jung Ik Ha

Seoul, Republic of Korea

Mar. 2018 – Feb. 2023

PUBLICATIONS

- **[Uncertainty-guided Compositional Alignment with Part-to-Whole Semantic Representativeness in Hyperbolic Vision-Language Models](#)**
H. kim*, **J. Jang***, J.J.Kim, S. Chun (*co-first)
Computer Vision and Pattern Recognition Conference (CVPR), 2026
- **[RoMaP: Robust 3D-Masked Part-level Editing in 3D Gaussian Splatting with Regularized Score Distillation Sampling](#)**
H. kim*, **J. Jang***, S. Chun (*co-first)
International Conference on Computer Vision (ICCV), 2025

- **INTRA: Interaction Relationship-aware Weakly Supervised Affordance Grounding**
J. Jang*, H. Seo*, S. Chun (*co-first)
European Conference on Computer Vision (ECCV), 2024
- **PODIA-3D: Domain Adaptation of 3D Generative Model Across Large Domain Gap Using Pose-Preserved Text-to-Image Diffusion**
G. Kim, J. Jang, S. Chun
International Conference on Computer Vision (ICCV), 2023
- **ControlNet-Guided Fusion of Panoramic Visuals and Auditory Spectrograms**
S. Jeon*, H. Bae*, J. Jang*, S. Chun (*co-first)
Korea Signal Processing Conference (KSPC), 2025
- **ACE-LCM: Attention-based Controllability and direct classifier-free guidance based quality Enhancing in few-step Latent Consistency Model**
H. Kim*, J. Jang*, J. Choi*, J. Cha, S. Chun (*co-first)
Korea Signal Processing Conference (KSPC), 2024
- **Personalization of Abstract Concept in Text-to-Image Diffusion model**
S. lee*, J. Jang*, S. Chun (*co-first)
Korea Signal Processing Conference (KSPC), 2024

WORK EXPERIENCE

SK Hynix

Process Integration (PI) team intern

Seoul, Republic of Korea

Summer 2022

AWARDS AND HONORS

- **3rd Place Award in UNICORN pathology vision**, MICCAI workshop Summer 2025
- **Brain Korea 21 Scholarships**, Korea Research Foundation Fall 2023

EXTRACURRICULAR ACTIVITIES

- **Band KIIO**, Republic of Korea Winter 2022 – Current
Guitar & Vocal