Suh Yoon Jeon

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EDUCATION

Seoul National University *Seoul, S.Korea*
Integrated M.S. and Ph.D. in Electrical and Computer Engineering Sep 2023 – present
Advisor: Se Young Chun

Seoul National University *Seoul, S.Korea*
B.S. in Electrical and Computer Engineering Mar 2018 – Aug 2023

Technical University of Munich *Munich, Germany*
Exchange student in Informatics Mar 2022 – Aug 2022

RESEARCH INTERESTS

My research interests lie at the intersection of AI, computer vision, and generative modeling, with a focus on multimodal generative AI across images, videos, and 3D/4D representations, and extending to human-centric understanding and synthesis involving reconstruction, motion, and interaction.

PUBLICATIONS

PersonaCraft: Personalized and Controllable Full-Body Multi-Human Scene Generation Using Occlusion-Aware 3D-Conditioned Diffusion
G.Kim*, **SY. Jeon***, S. Lee, SY. Chun (*co-first authors)
International Conference on Computer Vision (**ICCV**), 2025

Gradient-free decoder inversion in latent diffusion models
S. Hong, **SY. Jeon**, K. Lee, E. K. Ryu, SY. Chun
Conference on Neural Information Processing Systems (**NeurIPS**), 2025

On exact inversion of dpm-solvers
S. Hong, K. Lee, **SY. Jeon**, H. Bae, SY. Chun
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2024

PROJECTS

HUG3D: Human Group-Aware 3D Reconstruction from a Single Image with Physical Interaction
Under review, 2025

3rd Place in UNICORN Challenge Pathology Track
Unified beNchmark for Imaging in Computational Pathology, Radiology, and Natural Language
MICCAI Grand Challenge, 2025

Object-Interactive Human Motion Generation via Affordance Reasoning
H. Bae*, **SY. Jeon***, SY. Chun
Conference on Electronics, Semiconductor and AI, 2025 (Best Paper Award)

SpecArtDiff: ControlNet-Guided Fusion of Panoramic Visuals and Auditory Spectrograms
SY. Jeon*, H. Bae*, SY. Chun
Conference on Electronics, Semiconductor and AI, 2025

EXPERIENCE

Continental Korea, Intern *Seongnam, S.Korea*
Automotive Grade Linux: Program developments for automotives on raspberry pi Jul 2021 – Aug 2021

Seoul National University, Intern *Seoul, S.Korea*
Department of System Semiconductor Engineering for AI Jan 2021 – Feb 2021
Real-time online exam supervising program development