Sangwon Jang

Homepage | Github | Google Scholar | **Email:** sangwon.jang@kaist.ac.kr

Research Interests

My research focuses on computer vision and deep learning, particularly generative tasks using multi-modal foundation models like text-to-image/video models. Recently, I am deeply interested in **video generative models** and the applications of generative foundation models toward complex capabilities like **world modeling as physical simulator** and **visual reasoning**.

Education

KAIST   Seoul, Korea
Ph.D. in Artifical Intelligence   Sep. 2025 –
M.S. in Artifical Intelligence   Sep. 2023 – Aug. 2025

- Advisor: Prof. Sung Ju Hwang

Yonsei University   Seoul, Korea
B.S. in Electrical and Electronic Engineering   Mar. 2017 – Aug. 2023

Publications

*: equal contribution, †: equal advising,

[C5] Avatar Forcing: Real-Time Interactive Head Avatar Generation for Natural Conversation
Taekyung Ki*, Sangwon Jang*, Jaehyeong Jo, Jaehong Yoon, Sung Ju Hwang
Computer Vision and Pattern Recognition (**CVPR**), 2026

[C4] Frame Guidance: Training-Free Guidance for Frame-Level Control in Video Diffusion Model
Sangwon Jang*, Taekyung Ki*, Jaehyeong Jo, Jaehong Yoon, Soo Ye Kim, Zhe Lin, Sung Ju Hwang
International Conference on Learning Representations (**ICLR**), 2026

[C3] Silent Branding Attack: Trigger-free Data Poisoning Attack on Text-to-Image Diffusion Models
Sangwon Jang, June Suk Choi, Jaehyeong Jo, Kimin Lee†, Sung Ju Hwang†
Computer Vision and Pattern Recognition (**CVPR**), 2025

[C2] Identity Decoupling for Multi-Subject Personalization of Text-to-Image Models
Sangwon Jang*, Jaehyeong Jo*, Kimin Lee†, Sung Ju Hwang†
Neural Information Processing Systems (**NeurIPS**), 2024

[C1] Text-Conditioned Sampling Framework for Text-to-Image Generation with Masked Generative Models
Jaewoong Lee*, Sangwon Jang*, Jaehyeong Jo, Jaehong Yoon, Yunji Kim, Jin-Hwa Kim, Jung-Woo Ha, Sung Ju Hwang
International Conference on Computer Vision (**ICCV**), 2023

Preprints

[P2] Self-Refining Video Sampling
Sangwon Jang*, Taekyung Ki*, Jaehyeong Jo*, Saining Xie, Jaehong Yoon†, Sung Ju Hwang†
Arxiv, 2026

[P1] Enhancing Variational Autoencoders with Smooth Robust Latent Encoding
Hyomin Lee*, Minseon Kim*, Sangwon Jang, Jongheon Jeong, Sung Ju Hwang
Arxiv, 2025

Research Experiences

DeepAuto.ai   Jun. 2023 – Sep. 2023

AI Researcher

Developed a personalization and weight merging framework for text-to-image diffusion models.

KAIST, MLAI Lab   Sep. 2022 – Sep. 2023

Undergraduate Intern

Worked on improved sampling method for text-to-image masked diffusion models **[C1]**.

Reviewer Services

Conferences NeurIPS 2025, ICLR 2026, ICML 2026, CVPR 2026

Journals IEEE Transactions on Image Processing, IJCV