

Jiwoo Chung

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Research Interests

Computer Vision, Generative Models (GANs, Diffusion, Autoregressive): Image & Video Editing, Generative Model Compression; current focus on **Video Diffusion Acceleration** and Diffusion-based Image Editing.

Education

Sungkyunkwan University (SKKU) <i>Ph.D. in Artificial Intelligence</i>	2024 – present
Sungkyunkwan University (SKKU) <i>M.S. in Artificial Intelligence</i> Thesis: <i>Diversity-aware Channel Pruning for StyleGAN Compression</i> GPA: 4.2/4.5	2022 – 2024
Sungkyunkwan University (SKKU) <i>B.S. in Computer Science and Engineering</i> GPA: 4.05/4.5 (C.S.: 4.26/4.5); Honors: <i>SKKU Magna Cum Laude</i>	2016 – 2022

Experience

Research Intern <i>NAVER Cloud, Video Team (Advisor: Yongjun Hong)</i>	May 2025 – Sep 2025
○ Conducted research on video diffusion acceleration ; experiments on large-scale GPU clusters.	
Graduate Researcher <i>Visual Computing Lab, SKKU (Advisor: Jae-Pil Heo)</i>	2021 – present
○ Ongoing research on generative models.	
Web Developer <i>Inswave Systems Co., Ltd.</i>	2018 – 2020
○ Developed <i>WebSquare</i> , an HTML5-based UI/UX solution. ○ Served as Industrial Technical Personnel for military service.	

Publications

Fine-Tuning Visual Autoregressive Models for Subject-Driven Generation Jiwoo Chung, Sangeek Hyun, Hyunjung Kim, Eunseo Koh, MinKyu Lee, Jae-Pil Heo [arXiv 🔗] [Code 🔗] [Project 🔗]	ICCV 2025
Diffusion Feature Field for Text-based 3D Editing with Gaussian Splatting Eunseo Koh, Sangeek Hyun, MinKyu Lee, Jiwoo Chung, Kangmin Seo, Jae-Pil Heo	NeurIPS 2025
Style Injection in Diffusion: A Training-free Approach for Adapting Large-Scale Diffusion Models for Style Transfer <i>Highlight (Top 10%)</i> Jiwoo Chung*, Sangeek Hyun*, Jae-Pil Heo [arXiv 🔗] [Code 🔗] [Project 🔗]	CVPR 2024
Diversity-aware Channel Pruning for StyleGAN Compression Jiwoo Chung, Sangeek Hyun, Sang-Heon Shim, Jae-Pil Heo [arXiv 🔗] [Code 🔗] [Project 🔗]	CVPR 2024

Towards Squeezing-averse Virtual Try-on via Sequential Deformation

AAAI 2024

Sang-Heon Shim, Jiwoo Chung, Jae-Pil Heo

[arXiv [🔗](#)] [Code [🔗](#)]

Frequency-based Motion Representation for Video Generative Adversarial Networks

TIP 2023

Sangeek Hyun, Jaihyun Lew, Jiwoo Chung, Euiyeon Kim, Jae-Pil Heo

[Code [🔗](#)]

Semantic Consistency for Optimization-based GAN Inversion

KSC 2021

Jiwoo Chung, Jae-Pil Heo

Best Paper Award in Undergraduate/Junior Paper Competition

Research Projects

A Testbed for Deep Learning-based Dynamic Spatial Video Generation

2024 – 2025

- Supported by Electronics and Telecommunications Research Institute (ETRI); Role: **Project Co-leader**
- Developed real-time 3D Gaussian splatting [PPT [🔗](#)] [Video [🔗](#)]

Detection of AI-based Fake Investigation and Tip Videos

2022 – 2024

- Supported by Korean National Police Agency
- Developed research for object (person) insertion manipulation scenario
- Developed interactive web demo [Manual [🔗](#)] [Video [🔗](#)]

Foot Pressure-based Human Pose Estimation for Diabetic Foot Detection

2021

- In collaboration with Hippo T&C Inc.; Role: **Project Leader**
- Collected foot pressure and video data [Examples [🔗](#)]
- Developed a pose estimation pipeline using a transformer-based model architecture

5G-based Cultural Project Communication Platform

2020 – 2022

- Supported by Electronics and Telecommunications Research Institute (ETRI)
- Developed **video generation** using conditional GANs with virtual try-on image inputs

Awards and Honors

- Qualcomm Innovation Fellowship Korea 2025, Finalist
- AI Graduate Excellence Scholarship (Ph.D.), 2024–present
- AI Graduate Excellence Scholarship (M.S.), 2022–2023 (~₩12M total)
- Sungkyunkwan Software Scholarships, (Full tuition, ~₩30M total)

Academic Service

- Reviewer: IEEE TPAMI 2025; NeurIPS 2025; AAAI 2026, CVPR 2026

Skills

Programming Languages: Python, JavaScript, C/C++

Frameworks/Tools: PyTorch, Git, Docker

Editors/Shell: VSCode, Vim, Zsh