JIWOO CHUNG

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RESEARCH INTEREST

Computer Vision, Generative Adversarial Networks (GANs), Diffusion Models,
Image Manipulation and Editing, Video Generation and Editing

EDUCATION

Sungkyunkwan University (SKKU)
Suwon, South Korea   Mar 2022 – Feb 2024

M.S in Artificial Intelligence, Advisor: Jae-Pil Heo (GPA: 4.2 / 4.5)

Sungkyunkwan University (SKKU)
Suwon, South Korea   Mar 2016 – Feb 2022

B.S in Computer Science and Engineering (GPA: 4.05 / 4.5; C.S.: 4.26 / 4.5)

Honors: SKKU Magna Cum Laude

PUBLICATION

**Style Injection in Diffusion: A Training-free Approach for Adapting Large-scale
Diffusion Models for Style Transfer**
Jiwoo Chung*, Sangeek Hyun*, and Jae-Pil Heo   CVPR 2024 Highlight

Paper Link / Project Page Link

Diversity-aware Channel Pruning for StyleGAN Compression
Jiwoo Chung, Sangeek Hyun, Sang-Heon Shim, and Jae-Pil Heo   CVPR 2024

Paper Link / Project Page Link

Towards Squeezing-Averse Virtual Try-On via Sequential Deformation
Sang-Heon Shim, **Jiwoo Chung**, and Jae-Pil Heo   AAAI 2024

Paper Link

Frequency-based Motion Representation for Video Generative Adversarial Networks
Sangeek Hyun, Jaihyun Lew, **Jiwoo Chung,** Euiyeon Kim, and Jae-Pil Heo   TIP 2023

Paper Link

EXPERIENCE

Visual Computing Lab in SKKU, South Korea

AI Researcher   Mar 2021 – present

Advised by Jae-Pil Heo. Research on Generative Models.

RESEARCH PROJECTS

Detection of AI-based Fake Investigation and Tip Videos (PoliceLab 2.0)

Korean National Police Agency   2022 – Present

- Developed research for object (person) insertion manipulation scenario

- Developed interactive web demo

5G-Based Cultural Project Communication Platform

Electronics and Telecommunications Research Institute (ETRI)   2021 – 2022

- Developed video generation using conditional GANs with virtual try-on image inputs

AWARDS AND HONORS

Demo Award
AI Grand Challenge (IITP)   2021

Solving Text-based Mathematics Problems, Award in Top 20

Sungkyun Software Scholarships
Full tuition   2016 – 2022

SKILLS

Programming Language Python, JavaScript, C/C++

Framework   Pytorch, Docker