Juil Koo

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RESEARCH INTERESTS

Generative Models, 3D Machine Learning, Vision and Language Multi-Modality

EDUCATION

Feb. 2023~ Present	**KAIST**, Daejeon, Korea Ph.D in Computer Science Advisor: Minhyuk Sung
Mar. 2021~ Feb. 2023	**KAIST**, Daejeon, Korea M.S. in Computer Science Advisor: Minhyuk Sung
Mar. 2017~ Feb. 2021	**Kyungpook National University**, Daegu, Korea B.S. in Electronics Engineering GPA: 4.26 / 4.3 (*ranked 1st out of 349*)

EMPLOYMENT

Jul. 2024 ~ Sep. 2024	**Adobe Research**, London, United Kingdom Research Intern Mentors: Paul Guerrero, Duygu Ceylan and Chun-Hao Huang

PUBLICATIONS

[1] VideoHandles: Editing 3D Object Compositions in Videos Using Video Generative Priors
Juil Koo, Paul Guerrero, Chun-Hao Huang, Duygu Ceylan, Minhyuk Sung
CVPR 2025

[2] SyncTweedies: A General Generative Framework Based on Synchronized Diffusions
Jaihoon Kim*, **Juil Koo***, Kyeongmin Yeo*, Minhyuk Sung (* equal contribution.)
NeurIPS 2024

[3] Neural Pose Representation Learning for Generating and Transferring Non-Rigid Object Poses
Seungwoo Yoo, **Juil Koo**, Kyeongmin Yeo, Minhyuk Sung
NeurIPS 2024

[4] Posterior Distillation Sampling
Juil Koo, Chanho Park, Minhyuk Sung

CVPR 2024

[5] SALAD: Part-Level Latent Diffusion for 3D Shape Generation and Manipulation
Juil Koo[*], Seungwoo Yoo[*], Minh Hieu Nguyen[*], Minhyuk Sung (* equal contribution.)
ICCV 2023

[6] PartGlot: Learning Shape Part Segmentation from Language Reference Games
Juil Koo, Ian Huang, Panos Achiloptas, Leonidas Guibas, Minhyuk Sung
*CVPR 2022, Accepted as **Oral** Presentation* (Acceptance rate<4.2%)

AWARDS AND HONORS

Outstanding TA Award Feb. 2025
KAIST, Korea

Best Paper Award Aug. 2024
Samsung Electronics-KAIST R&D Exchange Meeting, Korea

Outstanding TA Award Feb. 2023
KAIST, Korea

Outstanding Master's Thesis Award Nov. 2022
KAIST, Korea

Qualcomm Innovation Fellowship Korea 2022 Nov. 2022
Qualcomm, Korea

Outstanding Paper Award Jul, 2022
Korea Computer Graphics Society, Korea

Outstanding TA Award Feb. 2022
KAIST, Korea

Kwanjeong Scholarship Mar. 2019
Kwanjeong Educational Foundation, Korea

National & Technology Scholarship Mar. 2017
Korea Student Aid Foundation, Korea

PRESENTATION

3DMV, M3DS, AI4CC, AI3DG, CVEU, and GCV Workshops at CVPR 2024 Jun. 2024

AI3DCC and L3DS Workshops at ICCV 2023 Sep. 2023

L3DS Workshop at ECCV 2022 Oct. 2022

TEACHING

Teaching Assistant

Diffusion Models and Their Applications Fall 2024
KAIST CS492-D

Machine Learning for 3D Data Fall 2023

KAIST CS479

Introduction to Computer Graphics — Spring 2023
KAIST CS380

Geometric Modeling and Processing — Fall 2022
KAIST CS492-J

Machine Learning for 3D Data — Spring 2022
KAIST CS492-A

Geometric Modeling and Processing — Fall 2021
KAIST CS492-H

ACADEMIC SERVICE

- CVPR Reviewer
- ICCV Reviewer
- ECCV Reviewer
- SIGGRAPH Reviewer
- AAAI Reviewer
- Eurographics Reviewer
- GCV@CVPR2024 Workshop Reviewer
- AI4VA@ECCV2024 Workshop Reviewer
- OOD-CV@ECCV2024 Workshop Reviewer