

Jaihoon Kim

[Website](#) | [LinkedIn](#) | Email: jh27kim@kaist.ac.kr

ACAMEDIC INTERESTS

Diffusion model, Flow model, Generation, 3D Reconstruction

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)
Ph.D. in Computer Science

Sep 2024 –
Advisor: Minhyuk Sung

Korea Advanced Institute of Science and Technology (KAIST)
M.S. in Computer Science

2023 – Aug 2024
Advisor: Minhyuk Sung

Hanyang University
B.S. in Electrical Engineering

2015 – 2021

WORK EXPERIENCE

Samsung Electronics
Cloud Storage (Full Time)

Jul 2021 – Jan 2023

Samsung Electronics
HPC (Internship)

July 2020 – July 2020

PUBLICATIONS

1. StochSync: Stochastic Diffusion Synchronization for Image Generation in Arbitrary Spaces
Kyeongmin Yeo*, **Jaihoon Kim***, Minhyuk Sung (* denotes equal contribution)
ICLR 2025
2. SyncTweedies: A General Generative Framework Based on Synchronized Diffusions
Jaihoon Kim*, Juil Koo*, Kyeongmin Yeo*, Minhyuk Sung (* denotes equal contribution)
NeurIPS 2024
3. Paired-Point Lifting for Enhanced Privacy-Preserving Visual Localization
Chunghwan Lee, **Jaihoon Kim**, Chanhyuk Yun, Je Hyeong Hong
CVPR 2023

PREPRINTS

1. Inference-Time Scaling for Flow Models via Stochastic Generation and Rollover Budget Forcing
Jaihoon Kim*, Taehoon Yoon*, Jisung Hwang*, Minhyuk Sung (* denotes equal contribution)
arXiv 2025
2. Unconditional Priors Matter! Improving Conditional Generation of Fine-Tuned Diffusion Models
Prin Phunyaphibarn, Phillip Y. Lee, **Jaihoon Kim**, Minhyuk Sung
arXiv 2025

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TEACHING EXPERIENCE

CS479: Machine Learning for 3D Data Course Assistant	School of Computing, KAIST Spring 2025
CS492(D): Diffusion Models and Their Applications Course Assistant	School of Computing, KAIST Fall 2024
CS580: Computer Graphics Course Assistant	School of Computing, KAIST Spring 2024
CS479: Machine Learning for 3D Data Course Assistant	School of Computing, KAIST Fall 2023

SCHOLARSHIPS AND ACHIEVEMENTS

Grand Prix (2 nd place) x, X-Corps Festival Minister, Ministry of Science and ICT	Spring 2020
Honors University of Texas at Austin	Fall 2019
Dean's List Hanyang University	Spring 2019

ACADEMIC SERVICE

Reviewer	
ICLR	2024
ICCV	2025
Pacific Graphics 2023 Student Delegate	Fall 2023

SKILLS

Programming Languages	C, C++, Java, Python
Frameworks	PyTorch, Spring
Languages	Korean (Native), English (Fluent)