Jaemin Kim

★ kjm981995.github.io in Linkedin ≥ kjm981995@kaist.ac.kr / kjm981995@gmail.com

RESEARCH INTEREST

Aiming to improve the controllability of advance generative models, including diffusion models and Large Language Models (LLMs). Recently contributed to this goal by exploring efficient guidance methods, such as training-free approaches and general-purpose strategies.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Ph.D. in Artificial Intelligence	Mar 2025 - Now Advisor: Prof. Jong Chul Ye
Korea Advanced Institute of Science and Technology (KAIST) M.S. in Artificial Intelligence	Mar 2023 - Feb 2025 Advisor: Prof. Jong Chul Ye
Korea Advanced Institute of Science and Technology (KAIST) B.S. in Bio and Brain Engineering, Electrical Engineering (Double Major) G.D.	Mar 2016 - Feb 2023 PA: 3.96/4.3 (Magna Cum Laude)
Karlsruhe Institute of Technology (KIT) Electrical Engineering and Information Technology (Exchange Student)	Sep 2019 - Feb 2020 Karlsruhe, Germany
PUBLICATIONS *: Equal Contribution	
[P3] Training-Free Reward-Guided Image Editing via Trajectory Optimal Country Jinho Chang*, Jaemin Kim*, Jong Chul Ye	Control Preprint 2025
[C4] Free ² Guide: Gradient-Free Path Integral Control for Enhancing Text-to-Generation with Large Vision-Language Models Jaemin Kim, Bryan S Kim, Jong Chul Ye	to-Video ICCV 2025
[P2] Universal Reasoner: A Single, Composable Plug-and-Play Reasoner for Frozen LLMs Preprint 2025 Jaemin Kim*, Hangeol Chang*, Hyunmin Hwang*, Choonghan Kim, Jong Chul Ye	
[C3] Optical-Flow Guided Prompt Optimization for Coherent Video General Hyelin Nam*, Jaemin Kim*, Dohun Lee, Jong Chul Ye	ation CVPR 2025
[C2] <u>Derivative-Free Diffusion Manifold-Constrained Gradient for Unified X</u> Won Jun Kim*, Hyungjin Chung*, Jaemin Kim* , Sangmin Lee, Byeongsu Sim	
[C1] Generalized Consistency Trajectory Models for Image Manipulation Beomsu Kim*, Jaemin Kim*, Jeongsol Kim, Jong Chul Ye	ICLR 2025
[P1] HiCBridge: Resolution Enhancement of Hi-C Data Using Direct Diffus Jaemin Kim*, Jong Chul Ye	sion Bridge Preprint 2024
Honors and Awards	

Η

Dongwon-KAIST scholarship

Full scholarship for tuition and stipend

National Science & Technology Scholarship

Scholarship for attracting outstanding talents

 ${\rm Mar}~2023$ - Feb2025

Mar 2018 - Mar 2020

ACADEMIC ACTIVITIES

Persident, Student Council

KAIST AI

 \mbox{May} 2025 - Now

Teaching Assistant

Mar 2025 - Jun 2025

KAIST - AI618: Generative Models and Unsupervised Learning

References

Jong Chul Ye

M.S., Ph.D. Advisor

jong.ye@kaist.ac.kr

 $Endowed\ Chair\ Professor,\ Kim\ Jaechul\ Graduate\ School\ of\ Artificial\ Intelligence,\ KAIST$