

# Jaemin Kim

🏠 [kjm981995.github.io](https://kjm981995.github.io) [LinkedIn](#) ✉ [kjm981995@kaist.ac.kr](mailto:kjm981995@kaist.ac.kr) / [kjm981995@gmail.com](mailto: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

<b>Korea Advanced Institute of Science and Technology (KAIST)</b> <i>Ph.D. in Artificial Intelligence</i>	Mar 2025 - Now Advisor: Prof. Jong Chul Ye
<b>Korea Advanced Institute of Science and Technology (KAIST)</b> <i>M.S. in Artificial Intelligence</i>	Mar 2023 - Feb 2025 Advisor: Prof. Jong Chul Ye
<b>Korea Advanced Institute of Science and Technology (KAIST)</b> <i>B.S. in Bio and Brain Engineering, Electrical Engineering (Double Major)</i>	Mar 2016 - Feb 2023 GPA: 3.96/4.3 (Magna Cum Laude)
<b>Karlsruhe Institute of Technology (KIT)</b> <i>Electrical Engineering and Information Technology (Exchange Student)</i>	Sep 2019 - Feb 2020 Karlsruhe, Germany

## PUBLICATIONS \*: Equal Contribution

[P3] <u>Universal Reasoner: A Single, Composable Plug-and-Play Reasoner for Frozen LLMs</u>	<i>Preprint 2025</i>
Jaemin Kim*, Hangeol Chang*, Hyunmin Hwang*, Choonghan Kim, Jong Chul Ye	
[C3] <u>Optical-Flow Guided Prompt Optimization for Coherent Video Generation</u>	<i>CVPR 2025</i>
Hyelin Nam*, Jaemin Kim*, Dohun Lee, Jong Chul Ye	
[C2] <u>Derivative-Free Diffusion Manifold-Constrained Gradient for Unified XAI</u>	<i>CVPR 2025</i>
Won Jun Kim*, Hyungjin Chung*, Jaemin Kim*, Sangmin Lee, Byeongsu Sim, Jong Chul Ye	
[P2] <u>Free<sup>2</sup>Guide: Gradient-Free Path Integral Control for Enhancing Text-to-Video Generation with Large Vision-Language Models</u>	<i>Preprint 2025</i>
Jaemin Kim, Bryan S Kim, Jong Chul Ye	
[C1] <u>Generalized Consistency Trajectory Models for Image Manipulation</u>	<i>ICLR 2025</i>
Beomsu Kim*, Jaemin Kim*, Jeongsol Kim, Jong Chul Ye	
[P1] <u>HiCBridge: Resolution Enhancement of Hi-C Data Using Direct Diffusion Bridge</u>	<i>ICLR 2025</i>
Jaemin Kim*, Jong Chul Ye	

## HONORS AND AWARDS

<b>Dongwon-KAIST scholarship</b> <i>Full scholarship for tuition and stipend</i>	Mar 2023 - Feb 2025
<b>National Science &amp; Technology Scholarship</b> <i>Scholarship for attracting outstanding talents</i>	Mar 2018 - Mar 2020

## ACADEMIC ACTIVITIES

<b>Teaching Assistant</b> <i>KAIST - AI618: Generative Models and Unsupervised Learning</i>	Mar 2025 - Jun 2025
--	---------------------