

Bryan Sangwoo Kim

Updated June 28, 2025

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🌐 github.com/bryanswkim
🇰🇷 S. Korea, US (Dual Citizenship)

Interests Multi-modal generative models, Image & video diffusion models, Inverse problems

Education **KAIST AI** *Seoul, Korea*
M.S., Artificial Intelligence 2024.03 – 2026.02 (Expected)
Advisor: Jong Chul Ye. GPA: 4.25/4.3.

KAIST *Daejeon, Korea*
B.S., Computer Science, Biological Sciences (Double Major) 2018.03 – 2024.02
Leave of Absence: Mandatory Korean Military Service (2021, 2022). GPA: 3.96/4.3.

Publications **FlowDPS: Flow-Driven Posterior Sampling for Inverse Problems**

Jeongsol Kim*, [Bryan Sangwoo Kim*](#), Jong Chul Ye

(*equal contribution)

IEEE/CVF International Conference on Computer Vision (ICCV), 2025

Free²Guide: Training-Free Text-to-Video Alignment using Image LVL

Jaemin Kim, [Bryan Sangwoo Kim](#), Jong Chul Ye

IEEE/CVF International Conference on Computer Vision (ICCV), 2025

VideoGuide: Improving Video Diffusion Models without Training Through a Teacher's Guide

Dohun Lee*, [Bryan Sangwoo Kim*](#), Geon Yeong Park, Jong Chul Ye

(*equal contribution)

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025

Preprints **Chain-of-Zoom: Extreme Super-Resolution via Scale Autoregression and Preference Alignment**

[Bryan Sangwoo Kim](#), Jeongsol Kim, Jong Chul Ye

Honors **KAIST Academic Excellence Scholarship** 2020
National Science & Technology Scholarship 2020
KAIST Dean's List 2018
KAIST Presidential Fellowship 2018 – 2024
Hansung Scholarship for Gifted Students 2016

Projects

Acquisition of 3D Precise Information of Microstructure and Development of Authoring Technology for Ultra-high Precision Cultural Restoration

Ministry of Culture, Sports and Tourism (South Korea)

Project Researcher

2024.07 – Present

Development of a PPG-based Respiratory Rate Prediction Algorithm

SkyLabs Co.

Project Leader

2024.10 – 2025.03

Development of ECG-based Seizure Prediction, Detection, Post-Detection Models

SkyLabs Co.

Project Leader

2024.03 – 2024.08

EyeBAG: Accurate Control of Eye Blink and Gaze Based on Data Augmentation Leveraging Style Mixing *(Technical Report)*

Innerverz Co.

Research Service

2023.03 – 2023.04

References

Jong Chul Ye

M.S. Advisor (KAIST)

2024.03 – Present

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