

# Bryan Sangwoo Kim

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🔗 [github.com/bryanswkim](https://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 – Present  
Advisor: Jong Chul Ye. *GPA: 4.24/4.3.*

**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** **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)  
*CVPR 2025*

**Preprints** **Chain-of-Zoom: Extreme Super-Resolution via Scale Autoregression and Preference Alignment**  
[Bryan Sangwoo Kim](#), Jeongsol Kim, Jong Chul Ye

**FlowDPS: Flow-Driven Posterior Sampling for Inverse Problems**  
Jeongsol Kim\*, [Bryan Sangwoo Kim\\*](#), Jong Chul Ye (\*equal contribution)

**Free<sup>2</sup>Guide: Gradient-Free Path Integral Control for Enhancing Text-to-Video Generation with Large Vision-Language Models**  
Jaemin Kim, [Bryan Sangwoo 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

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

*SkyLabs Co.*

Project Leader

2024.03 – 2024.08

### **Development of a PPG-based Respiratory Rate Prediction Algorithm**

*SkyLabs Co.*

Project Leader

2024.10 – 2025.03

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

*Innerverz Co.*

Research Service

2023.02 – 2023.03

## References

**Jong Chul Ye**

M.S. Advisor (KAIST)

2024.03 – Present

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