William June Suk Choi

⌂ choi403.github.io, ✉ w_choi@kaist.ac.kr, ⓞ GitHub in Linkedin   ⊕ US/Korea (Dual Citizen)

About

I am a first-year Ph.D. student at Korea Advanced Institute of Science and Technology (KAIST), advised by Prof. Kimin Lee and Jinwoo Shin. I received a B.S. degree in Computer Science from KAIST. I am currently interested in developing capable and safe generative AI, focusing especially on effective and efficient generative modeling of images and videos with diffusion models.

Education

Korea Advanced Institute of Science and Technology (KAIST)   Sep. 2023 – Present
Ph.D. Student in Artificial Intelligence

Korea Advanced Institute of Science and Technology (KAIST)   Mar. 2019 – Aug. 2023
B.S. in Computer Science (summa cum laude)

Publications

C: Conference, W: Workshop, P: Preprint, *: Equal contribution, †: Equal advising

[P2] Enhancing Motion Dynamics of Image-to-Video Models via Adaptive Low-Pass Guidance
<u>June Suk Choi</u>, Kyungmin Lee, Sihyun Yu, Yisol Choi, Jinwoo Shin, Kimin Lee
Preprint

[C5] Enhancing LLM Agent Safety via Causal Influence Prompting
Dongyoon Hahm, Woogyeol Jin, <u>June Suk Choi</u>, Sungsoo Ahn, Kimin Lee
Findings of the Association for Computational Linguistics (ACL Findings), 2025

[C4] Silent Branding Attack: Trigger-free Data Poisoning Attack on Text-to-Image Diffusion Models
Sangwon Jang, <u>June Suk Choi</u>, Jaehyeong Jo, Kimin Lee†, Sung Ju Hwang†
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025

[C3] DiffusionGuard: A Robust Defense Against Malicious Diffusion-based Image Editing
<u>June Suk Choi</u>, Kyungmin Lee, Jongheon Jeong, Saining Xie, Jinwoo Shin, Kimin Lee
International Conference on Learning Representations (ICLR), 2025

[C2] DiffExp: Efficient Exploration in Reward Fine-tuning for Text-to-Image Diffusion Models
Daewon Chae*, <u>June Suk Choi*</u>, Jinkyu Kim†, Kimin Lee†
AAAI Conference on Artificial Intelligence (AAAI), *Oral Presentation* (547/12,957 = 4.2%), 2025

[C1] Collaborative Score Distillation for Consistent Visual Editing
Subin Kim*, Kyungmin Lee*, <u>June Suk Choi</u>, Jongheon Jeong, Kihyuk Sohn, Jinwoo Shin
Conference on Neural Information Processing Systems (NeurIPS), 2023

[P1] MobileSafetyBench: Evaluating Safety of Autonomous Agents in Mobile Device Control
Juyong Lee*, Dongyoon Hahm*, <u>June Suk Choi*</u>, W. Bradley Knox, Kimin Lee
Preprint

Academic Services

- **Reviewer:** NeurIPS, ICML, CVPR, ACL, TMLR

Honors & Awards

Dean's List, KAIST College of Engineering (2020F)   Jan. 2021
National Science and Engineering Undergraduate Scholarship   May 2020

Experience

Chief Technology Officer (CTO) and Co-founder Jan. 2022 – Jan. 2023
PLUME.D

- Proposed and prototyped AvaKit, the company's core product, securing ₩1B ($\approx \$700K$) in private and government funding while serving as the CTO.
- **1st place** (of 876 teams), *11th Chung Ju-Young Startup Competition* (largest private startup contest in Korea).
- **2nd place** (of 5,420 teams), *K-Startup Grand Challenge 2022* (largest government startup contest in Korea).