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 in the Graduate School of AI at KAIST, advised by Prof. Kimin Lee and Prof. Jinwoo Shin. I received my B.S. in Computer Science from KAIST. I am currently interested in AI safety, with a focus on diffusion models and large language 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

[C4] Silent Branding Attack: Trigger-free Data Poisoning Attack on Text-to-Image Diffusion Models
Sangwon Jang, **June Suk Choi**, 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
June Suk Choi, 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*, **June Suk Choi***, Jinkyu Kim†, Kimin Lee†
AAAI Conference on Artificial Intelligence (AAAI), *Oral Presentation*, 2025

[C1] Collaborative Score Distillation for Consistent Visual Editing
Subin Kim*, Kyungmin Lee*, **June Suk Choi**, 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*, **June Suk Choi***, W. Bradley Knox, Kimin Lee

Academic Services

- **Journal Reviewer:** Transactions on Machine Learning Research (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 ₩400M (≈ $280K) private investment and ₩600M (≈ $420K) government grant 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).
- Left the company to pursue academic career.