William June Suk Choi

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About

I am a 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 startup idea and made the prototype version of the company's product, AvaKit, successfully securing **₩400M (≈ $280K)** investment and **₩600M (≈ $420K)** government grant for the company while serving as CTO.