

William June Suk Choi

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🇺🇸 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) <i>Ph.D. Student in Artificial Intelligence</i>	Sep. 2023 – Present
Korea Advanced Institute of Science and Technology (KAIST) <i>B.S. in Computer Science (summa cum laude)</i>	Mar. 2019 – Aug. 2023

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 PLUME.D	Jan. 2022 – Jan. 2023
<ul style="list-style-type: none"> ◦ Proposed and prototyped AvaKit, the company's core product, securing a total of ₩1B (\approx \$700K) in combined private and government funding while serving as the CTO. ◦ 1st place (of 876 teams), <i>11th Chung Ju-Young Startup Competition</i> (largest private startup contest in Korea). ◦ 2nd place (of 5,420 teams), <i>K-Startup Grand Challenge 2022</i> (largest government startup contest in Korea). 	