

William June Suk Choi

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 US/Korea (Dual Citizen)

About

I am a third-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. My research focuses on enhancing the efficiency and controllability of generative models, with a primary focus on image and video diffusion models.

Education

Korea Advanced Institute of Science and Technology (KAIST) <i>Ph.D. Student in Artificial Intelligence</i>	Sep. 2023 - Feb. 2029 (Expected)
Korea Advanced Institute of Science and Technology (KAIST) <i>B.S. in Computer Science (summa cum laude)</i> <i>Graduated with Rank 1 out of 75 students in the School of Computing</i>	Mar. 2019 – Aug. 2023

Publications

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

- [P1] **Enhancing Motion Dynamics of Image-to-Video Models via Adaptive Low-Pass Guidance**
June Suk Choi, Kyungmin Lee, Sihyun Yu, Yisol Choi, Jinwoo Shin, Kimin Lee
Preprint
- [C6] **MobileSafetyBench: Evaluating Safety of Autonomous Agents in Mobile Device Control**
Juyong Lee*, Dongyoon Hahm*, June Suk Choi*, W. Bradley Knox, Kimin Lee
AAAI Conference on Artificial Intelligence, Special Track on AI Alignment (AAAI), 2026
- [C5] **Enhancing LLM Agent Safety via Causal Influence Prompting**
Dongyoon Hahm, Woogyeol Jin, June Suk Choi, 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, 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* ($547/12,957 = 4.2\%$), 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

Experience

Adobe Research (San Jose, CA) Research Scientist Intern / Host: Dr. Long Mai	Feb. 2026 – May. 2026
PLUME.D (Seoul, South Korea) Chief Technology Officer (CTO) and Co-founder <ul style="list-style-type: none"> ○ Led the development of AvaKit, the company's core product, securing approx. USD 700K in funding. ○ 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). 	Jan. 2022 – Jan. 2023

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