

NaHyeon Park

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🏠 <https://nahyeonkaty.github.io>

EDUCATION

- **KAIST**
Ph.D. in Artificial Intelligence (Advisor: Hyunjung Shim) Mar. 2023 – Present
- **KAIST**
M.S. in Electrical Engineering (Advisor: Seungwon Shin) Mar. 2021 – Feb. 2023
- **KAIST**
B.S. in Electrical Engineering & Computer Science (minor) Mar. 2016 – Feb. 2021

EXPERIENCE

- **S2W Inc.**
Research Intern in Big-data Team (Built MongoDB with NFT blockchain data) Dec. 2021 – Feb. 2022
- **SMILE Lab, KAIST**
Research Intern (Bluetooth, Wi-Fi conversion) Jun. 2020 – Aug. 2020
- **NSS Lab, KAIST**
Research Intern (Reverse engineering) Dec. 2019 – Feb. 2020
- **IIDS Lab, KAIST**
Research Intern (Graph matching) Dec. 2018 – Feb. 2019

RESEARCH INTEREST

My research has centered on Generative AI, with a specific focus on Text-to-Image (T2I) diffusion models. Previously, I focused on T2I personalization and data-efficient training strategies for diffusion models. Currently, my research interests are expanding toward AI Safety. Given the widespread accessibility of T2I models to end-users, I am dedicated to ensuring these systems are robust, safe, and aligned with human intent.

PUBLICATIONS

- [1] **Aligned but Stereotypical? The Hidden Influence of System Prompts on Social Bias in LVLM-Based Text-to-Image Models** [paper]
NaHyeon Park*, Na Min An*, Kunhee Kim, Soyeon Yoon, Jiahao Huo, Hyunjung Shim
preprint, 2025
- [2] **Directional Textual Inversion for Personalized Text-to-Image Generation**
Kunhee Kim*, NaHyeon Park*, Kibeom Hong, Hyunjung Shim
preprint, 2025
- [3] **Rethinking the Use of Vision Transformers for AI-Generated Image Detection** [paper]
NaHyeon Park, Kunhee Kim, Junsuk Choe, Hyunjung Shim
arXiv, 2025
- [4] **DGQ: Distribution-Aware Group Quantization for Text-to-Image Diffusion Models** [paper]
Hyogon Ryu, NaHyeon Park, Hyunjung Shim
ICLR, 2025
- [5] **Improving Cone-Beam CT Image Quality with Knowledge Distillation-Enhanced Diffusion Model in Imbalanced Data Settings** [paper]
Joonil Hwang, Sangjoon Park, NaHyeon Park, Seungryong Cho, Jin Sung Kim
MICCAI, 2024

[6] **TextBoost: Towards One-Shot Personalization of Text-to-Image Models via Fine-tuning Text Encoder** [paper]
NaHyeon Park*, Kunhee Kim*, Hyunjung Shim
arXiv, 2024

[7] **TADA: Timestep-Aware Data Augmentation for Diffusion Models** [paper]
NaHyeon Park*, Kunhee Kim*, Song Park, Jung-Woo Ha, Hyunjung Shim
NeurIPS 2023 Workshop on Diffusion Models, 2023

ACADEMIC ACTIVITIES

- **Conference Reviewer:** CVPR (2026, 2025, 2024), ICLR (2026, 2025), AAAI (2026, 2025), 3DV (2026)
- **Journal Reviewer:** TPAMI

TEACHING EXPERIENCE

- **Teaching Assistant** Fall 2025, Fall 2023
Computational Image Generation and Manipulation (AI621)
- **Teaching Assistant** Spring 2025
Bayesian Deep Learning (AI708)
- **Teaching Assistant** Fall 2024
Deep Learning for Computer Vision (AI604)
- **Teaching Assistant** Spring 2024
3D Vision (AI622)
- **Teaching Assistant** Fall 2022
Software Development Environment and Tools Practice (EE485)
- **Teaching Assistant** Spring 2022, Fall 2021
Programming Structure for Electrical Engineering (EE209)
- **Teaching Assistant** Spring 2021
Philosophy of Mind (HSS436)
- **Lecturer** Spring 2019, Spring 2018, Fall 2017
Humanity/Leadership III

AWARDS & SCHOLARSHIP

- Leadership & Service Excellence Award (Top-3 in 2021 KAIST graduation)
- Natural Science & Technology Scholarship (2019)
- Best Lecture Award in Leadership III (2017)
- Excellence Award in KAIST SF Writing Contest (2017)