

Dogyun Park

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EMPLOYMENT HISTORY

- Samsung Electronics, Foundry Division** Jan 2019 - Jul 2020
Semiconductor Process Technology Engineer Seoul, South Korea
 - Monitored wafer performance and improved yield and process efficiency.
- Korea Institute of Science and Technology** Sep 2020 - Jun 2022
Research Assistant Seoul, South Korea
 - Conducted research for the development of generative AI models.

EDUCATION

- Korea University** Sep 2020 - Current
M.S & Ph.D Integrated Student in Computer Science and Engineering Seoul, South Korea
 - Advised by Professor Hyunwoo J. Kim at Machine Learning and Vision (MLV) Lab.
- Korea University** Mar 2012 - Jan 2019
B.S in Mechanical Engineering Seoul, South Korea
 - GPA: 3.54 / 4.5

RESEARCH INTERESTS

Computer Vision, Generative Model, Multi-modal Understanding, Foundation Model

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION

- [C.1] **Constant Acceleration Flow**
Dogyun Park, Sojin Lee, Sihyeon Kim, Taehoon Lee, Youngjoon Hong, Hyunwoo J. Kim.
Advances in Neural Information Processing Systems (**NeurIPS**), 2024.
- [C.2] **Diffusion Prior-Based Amortized Variational Inference for Noisy Inverse Problems**
Sojin Lee*, Dogyun Park*, Inho Kong, Hyunwoo J. Kim. (*equal contributions)
European Conference on Computer Vision (**ECCV**), 2024. (**Oral presentation**).
- [C.3] **Stochastic Conditional Diffusion Models for Robust Semantic Image Synthesis**
Juyeon Ko, Inho Kong, Dogyun Park, Hyunwoo J. Kim.
International Conference on Machine Learning (**ICML**), 2024.
- [C.4] **Domain-agnostic Latent Diffusion Models for Synthesizing High-Quality Implicit Neural Representations**
Dogyun Park, Sihyeon Kim, Sojin Lee, Hyunwoo J. Kim.
International Conference on Learning Representations (**ICLR**), 2024.
- [C.5] **Probabilistic Precision and Recall Towards Reliable Evaluation of Generative Models**
Dogyun Park, Suhyun Kim.
International Conference on Computer Vision (**ICCV**), 2023.
- [C.6] **Naturalinversion: Data-free image synthesis improving real-world consistency**
Yujin Kim, Dogyun Park, Dohee Kim, Suhyun Kim.
AAAI Conference on Artificial Intelligence (**AAAI**), 2023
- [P.1] **METHOD AND APPARATUS FOR GENERATIVE MODEL WITH ARBITRARY RESOLUTION AND SCALE USING DIFFUSION MODEL AND IMPLICIT NEURAL NETWORK**
Dogyun Park, Sihyeon Kim, Sojin Lee, Hyunwoo J. Kim.
Korea Patent No.1026896420000.

ACADEMIC SERVICES

- Reviewer of ICLR (International Conference on Learning Representations)** 2025
- Reviewer of NeurIPS (Advances in Neural Information Processing Systems)** 2024

EXPERIENCES

- **Teaching Assistant (TA) for DATA303**

Korea University

Sep 2023 - Jun 2024

Seoul, South Korea

- Assisted professor with preparing course materials and delivering lectures.
- Graded assignments and exams, offering constructive feedback to improve student understanding.

SKILLS

Languages: Korean (Native), English (Proficiency level).