

Dogyun Park

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EDUCATION

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

RESEARCH INTERESTS

Computer Vision, Generative Model, Multi-modal generation,
Video generation, Efficient generative model

WORK EXPERIENCE

- **Snap Inc.** *May 2025 - Current*
Los Angeles, California
Research Intern at Creative Vision Team

UNDER REVIEW

- [1] **Sprint: Sparse-Dense Residual Fusion for Efficient Diffusion Transformers** [\[link\]](#)
Dogyun Park, Moayed Haji-Ali, Yanyu Li, Willi Menapace, Sergey Tulyakov, Hyunwoo J. Kim, Aliaksandr Siarohin, Anil Kag
Arxiv, 2025.

PUBLICATIONS

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

- [C.7] **Blockwise Flow Matching: Improving Flow Matching Models For Efficient High-Quality Generation** [\[link\]](#)
Dogyun Park, Taehoon Lee, Minseok Joo, Hyunwoo J. Kim.
Advances in Neural Information Processing Systems (**NeurIPS**), 2025.
- [C.6] **Constant Acceleration Flow** [\[link\]](#)
Dogyun Park, Sojin Lee, Sihyeon Kim, Taehoon Lee, Youngjoon Hong, Hyunwoo J. Kim.
Advances in Neural Information Processing Systems (**NeurIPS**), 2024.
- [C.5] **Diffusion Prior-Based Amortized Variational Inference for Noisy Inverse Problems** [\[link\]](#)
Sojin Lee*, **Dogyun Park***, Inho Kong, Hyunwoo J. Kim. (*equal contributions)
European Conference on Computer Vision (**ECCV**), 2024. (**Oral presentation**).
- [C.4] **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.3] **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.2] **Probabilistic Precision and Recall Towards Reliable Evaluation of Generative Models**
Dogyun Park, Suhyun Kim.
International Conference on Computer Vision (**ICCV**), 2023.
- [C.1] **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) 2026
- Reviewer of TMLR, ICCV, AAAI 2025
- Reviewer of NeurIPS (Advances in Neural Information Processing Systems) 2024, 2025
- Reviewer of ICML (International Conference on Machine Learning) 2025
- Reviewer of ICLR (International Conference on Learning Representations) 2025

OTHER EXPERIENCES

- **Teaching Assistant for DATA303, Advanced Machine Learning** Sep 2023 - Dec 2023
Korea University Seoul, South Korea
 - Assisted professor with preparing course materials and delivering lectures.
 - Graded assignments and exams, offering constructive feedback to improve student understanding.
- **Teaching Assistant for COSE474, Deep Learning** Sep 2024 - Dec 2024
Korea University Seoul, South Korea
 - Collaborated with the professor to develop and deliver course materials, including lectures and hands-on tutorials.
 - Assessed student submissions, ensuring fair grading and actionable feedback for improvement.
 - Supported students through office hours and one-on-one consultations to clarify course content and address challenges.

SKILLS

Languages: Python (PyTorch, TensorFlow, NumPy, Pandas, Scikit-learn, OpenCV, Matplotlib), Bash/Shell.

Technologies: AWS, Docker, Git, Jupyter Notebooks, LaTeX, Machine Learning Frameworks (Pytorch Lightning, Hugging Face Accelerate).