

# Dogyun Park

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## EDUCATION

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

## RESEARCH INTERESTS

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

## WORK EXPERIENCE

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

## 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).