

Jaewon Min

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Research Interests

My previous research leveraged diffusion models as generative priors for downstream vision tasks, including image restoration and semantic correspondence. My current research interests include:

- Image and Video Generative Models
- 3D/4D Generation and Geometric Foundation Models
- Generative World Models for Robotics

More recently, I have been exploring how image and video generative models can be extended to 3D/4D generation, geometric foundation models, and world models for robotics.

Experience

New York University Visiting Scholar Advisor: Chen Feng	Jun. 2026 – Present New York, USA
Hugging Face Research Collaboration Collaborator: Paul Sayak Project: Improving Diffusion Sampling for Efficient and Controllable Image Generation [C2, C3]	Nov. 2024 – May. 2025 Remote

Education

M.S / Ph.D Integrated Course in Artificial Intelligence Korea Advanced Institute of Science and Technology (KAIST) Advisor: Seungryong Kim	Mar. 2025 – Present Seoul, Korea
M.S in Computer Science and Engineering Korea University Advisor: Seungryong Kim Degree incomplete: Transferred to KAIST with advisor.	Sep. 2024 – Feb. 2025 Seoul, Korea
B.S in Computer Science and Engineering Korea University GPA: 4.1 / 4.5 (<i>Early Graduation with Magna Cum Laude</i>)	Mar. 2021 – Aug. 2024 Seoul, Korea

Publications

*: Equal Contribution, †: Corresponding Author

International Conference

[C5] Transferability Between Understanding and Generation in Unified Multimodal Models Jiwon Kang*, Heeji Yoon, Jaewoo Jung, Jaewon Min , Minkyong Jeon, Biyeon Hwang, Sangwon Jung, Seungryong Kim† <i>European Conference on Computer Vision (ECCV 2026)</i>	Paper Project Page Code
[C4] Text-Aware Image Restoration with Diffusion Models Jaewon Min *, Jin Hyeon Kim*, Paul Hyunbin Cho, Jaeun Lee, Jihye Park, Minkyu Park, Sangpil Kim†, Hyunhee Park†, Seungryong Kim† <i>International Conference on Learning Representations (ICLR 2026)</i>	Paper Project Page Code

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[C3] A Noise is Worth Diffusion Guidance

[Paper](#) | [Project Page](#) | [Code](#)

Donghoon Ahn*, Jiwon Kang*, Sanghyun Lee, [Jaewon Min](#), Wooseok Jang, Minjae Kim, Hyungwon Cho, Sayak Paul, SeonHwa Kim, Eunju Cha[†], Kyong Hwan Jin[†], Seungryong Kim[†]

International Conference on Learning Representations (ICLR 2026)

[C2] Where and How to Perturb: On the Design of Perturbation Guidance in Diffusion and Flow Models via Attention Head Selection

[Paper](#) | [Project Page](#) | [Code](#)

Donghoon Ahn*, Jiwon Kang*, Sanghyun Lee, Minjae Kim, [Jaewon Min](#), Wooseok Jang, Sangwu Lee, Sayak Paul, Susung Hong, Seungryong Kim[†]

Annual Conference on Neural Information Processing System (NeurIPS 2025)

[C1] Self-rectifying diffusion sampling with perturbed-attention guidance

[Paper](#) | [Project Page](#) | [Code](#)

Donghoon Ahn*, Hyungwon Cho* [Jaewon Min](#), Wooseok Jang, Jungwoo Kim, SeonHwa Kim, Hyun Hee Park, Kyong Hwan Jin[†], Seungryong Kim[†]

European Conference on Computer Vision (ECCV 2024)

Officially supported in [Hugging Face Diffusers](#) / 300+ [GitHub stars](#)

Preprints

[P4] GeoFace: Consistent Multi-View Face Generation with Geometry-Constrained Diffusion

[Paper](#) | [Project Page](#) | [Code](#)

Yeji Choi, Jinhyeok Choi, [Jaewon Min](#), Minkyung Kwon, Jin Hyeon Kim, Seungryong Kim[†]

[P3] GARD: Geometry-Aware Representation Denoising for Robust Multi-view 3D Reconstruction

[Paper](#) | [Project Page](#) | [Code](#)

Jin Hyeon Kim*, Jaeun Lee*, Clare Kim, Kyoungjin Oh, Paul Hyunbin Cho, [Jaewon Min](#), Yeji Choi, Jihye Park, Hyunhee Park, Minkyu Park, Seungryong Kim[†]

[P2] DA-Flow: Degradation-Aware Optical Flow Estimation with Diffusion Models

[Paper](#) | [Project Page](#) | [Code](#)

[Jaewon Min](#), Jaeun Lee, Yeji Choi, Paul Hyunbin Cho, Jin Hyeon Kim, Tae-Young Lee, Jongsik Ahn, Hwayeong Lee, Seonghyun Park, Seungryong Kim[†]

[P1] Unified Diffusion Transformer for High-fidelity Text-Aware Image Restoration

[Paper](#) | [Project Page](#) | [Code](#)

Jin Hyeon Kim, Paul Hyunbin Cho, Claire Kim, [Jaewon Min](#), Jaeun Lee, Yeji Choi, Seungryong Kim[†]

Academic Services

Conference Reviewers

- *International Conference on Machine Learning (NeurIPS)*, 2026
- *The European Conference on Computer Vision (ECCV)*, 2026
- *Computer Vision and Pattern Recognition (CVPR)*, 2026
- *International Conference on Learning Representations (ICLR)*, 2026