Jihun Park

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Contact

DGIST (Daegu Gyeongbuk Institute of Science and Technology)
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Summary

M.S.–Ph.D. integrated course student in Artificial Intelligence at DGIST, conducting research under the supervision of Prof. Sunghoon Im. Research interests include efficient and consistency-aware image and video generation using autoregressive and diffusion-based methods, various style-aware tasks,and a broad range of vision–language tasks.

Research Interests

Image/Video Generation (Diffusion, Autoregressive)
Style Transfer
Vision-Language Tasks

Education

Feb 2023 – Present	M.S. - Ph.D. Integrated Course, Interdisciplinary Studies of Artificial Intelligence (ISAI), **DGIST**, Daegu, South Korea. *Advisor: Prof. Sunghoon Im*
Sep 2018 – Jul 2022	Bachelor of Mechanical Engineering, **Zhejiang University**, Hangzhou, China.
Mar 2015 – Feb 2018	**Chungnam Samsung Academy**, South Korea.

Work Experience

Generative Model Research Intern, Baidu (Shenzhen, China) *Dec 2025 – Mar 2026*

- Conducted research on image/video generation using large-scale diffusion and flow-matching models under the supervision of Yan Zhang.
- Explored reinforcement learning-based post-training (GRPO/Flow-GRPO) for generative model alignment, with reward function design combining perceptual and semantic metrics.

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Publications

* Equal contribution † Corresponding author

Peer-Reviewed

- Kyumin Hwang*, Wonhyeok Choi*, Jaeyeul Kim, **Jihun Park**, Daehee Park†, and Sunghoon Im†. "CascadeOcc: Rethinking 3D Occupancy World Models with Cascaded VQ Representations", **IEEE Signal Processing Letters (SPL)**, 2026.
- Kyoungmin Lee*, **Jihun Park***, Jongmin Gim*, Wonhyeok Choi, Kyumin Hwang, Jaeyeul Kim and Sunghoon Im†. "A Training-Free Style-Personalization via Scale-wise Autoregressive Model", **CVPR**, Jun 2026. [paper]
- Wonhyeok Choi, Kyumin Hwang, **Jihun Park**, Kyoungmin Lee, Seunghun Lee, Jaeyeul Kim, Minwoo Choi, and Sunghoon Im†. "TaskForce: Cooperative Multi-agent Reinforcement Learning for Multi-task Optimization", **CVPR**, Jun 2026.
- Minseok Oh*, **Jihun Park***, Jongmin Gim, Minwoo Choi, Kyoungmin Lee, Ferdinando Fioretto and Sunghoon Im†. "FREESTYLE: An Anchor-Free Mechanism for Training-Free Style-Aligned Image Generation", **CVPR**

Findings, Jun 2026.

- **Jihun Park***, Kyoungmin Lee*, Jongmin Gim*, Hyeonseo Jo, Minseok Oh, Wonhyeok Choi, Kyumin Hwang, Jaeyeul Kim, Minwoo Choi and Sunghoon Im†. "Infinite-Story: A Training-Free Consistent Text-to-Image Generation", **AAAI (Oral paper)**, Jan 2026. [paper] [project page]
- **Jihun Park***, Jongmin Gim*, Kyoungmin Lee*, Seunghun Lee, and Sunghoon Im†. "Style-Editor: Text-driven object-centric style editing", **CVPR (Highlight paper, Top 3.7%)**, Jun 2025. [paper] [project page]
- Sanggyun Ma*, Wonjoon Choi*, **Jihun Park***, Seunghun Lee, Jiwan Seo, Jaeyeul Kim, and Sunghoon Im†. "Bridging Geometric and Semantic Foundation Models for Generalized Monocular Depth Estimation", **ICEIC**, Jan 2026. [paper]
- Sanggyun Ma*, Wonjoon Choi*, **Jihun Park**, Jaeyeul Kim, and Sunghoon Im†. "Semantic-Enhanced Monocular Depth Estimation via Fusion and Distillation of Foundation Models", **ICCVw**, Jul 2025.
- Jongmin Gim*, **Jihun Park***, Kyoungmin Lee*, and Sunghoon Im†. "Content-Adaptive Style Transfer: A Training-Free Approach with VQ Autoencoders", **ACCV**, Dec 2024. [paper]

Preprints

- **Jihun Park***, Jongmin Gim*, Kyoungmin Lee*, Minseok Oh, Minwoo Choi, Jaeyeul Kim, Woo Chool Park, and Sunghoon Im†. "A Training-Free Style-aligned Image Generation with Scale-wise Autoregressive Model", *arXiv*, 2025. [paper]

Under Review

- Minwoo Choi*, DongHyeon Kim*, Hyun SeungJun, Wonhyeok Choi, **Jihun Park** and Sunghoon Im†. "MEF-FIT: Memory Efficient Trajectory Control for MM-DiT Based Video Diffusion Models".
- Jeonghoon Kim*, Hyeon Kang*, **Jihun Park**, Jinhwoi Kim, Jaeyeul Kim, and Sunghoon Im†. "Mitigating Noisy Correspondence in Video-Text Retrieval via Noise-mined Adaptive Self-Labeling".

Awards

- Encouragement prize, 32nd HumanTech Paper Awards — Samsung Electronics Co., Ltd. *Feb 2026*
- Best Oral Presentation Award, 2025 DGIST Student Conference — DGIST, EECS/AI. *Oct 2025*
- Encouragement prize, 30th HumanTech Paper Awards — Samsung Electronics Co., Ltd. *Jan 2024*

Teaching Experience

- Invited speaker of DGIST Generative AI Integrated Seminar (30+ attendees) — DGIST. *Oct 2024*
- Teaching Assistant (TA) of Advanced Deep Learning (80+ students) — DGIST. *Mar 2024 – Jun 2024*

Academic Reviewer

- The Association for the Advancement of Artificial Intelligence (AAAI). *2026*

Projects

Multi prompt-based image generation (NIPA Innovation Hub AI Data Convergence Project) *Jul 2024 – Present*

- Research about text-to-image diffusion models with fast sampling
- Improving the performance of image editing models

Software development of smart glasses (Industry-Academic R&BD Collaboration) *Jul 2023 – Jun 2024*

- Development of a vision-picking system for logistics based on AI object recognition
- Development of an object detection module and data processing

Patents

- METHOD FOR GENERATING PERSONALIZED IMAGE IN A NON LEARNING STYLE USING A SCALE-BASED AUTOREGRESSIVE MODEL. (10-2025-0099672)
- METHOD FOR DEPTH ESTIMATION BASED ON SEMANTIC INFORMATION THROUGH FUSION OF FOUNDATION MODELS AND KNOWLEDGE DISTILLATION. (10-2025-0099244)
- METHOD FOR GENERATING STYLE ALIGNED IMAGES USING AUTOREGRESSIVE MODEL. (10-2025-0054822)
- MONOCULAR DEPTH ESTIMATION METHOD BASED ON FUSION OF GEOMETRIC AND SEMANTIC INFORMATION. (10-2024-0176489)
- CONTENT-ADAPTIVE VECTOR QUANTIZATION-BASED NON-LEARNING STYLE SWITCHING TECHNIQUE, Publication date: Nov. 21, 2024. (10-2024-0166851)
- COMPUTER PROGRAM FOR TEXT-BASED, OBJECT-ORIENTED STYLE TRANSFER. (10-2023-0195850)
- COMPUTER PROGRAM AND MEHTOD FOR STYLE TRANSFER. Publication date: Mar. 02, 2025. (10-2023-0131272)
- COMPUTER PROGRAM AND MEHTOD FOR LOST AND FOUND SYSTEM. (10-2018-0072114)

Other Experiences

- Exhibition of our team's research on AI-driven art at DGIST [Curation] *Nov 2025 – Feb 2026*
- Attended International Computer Vision Summer School (ICVSS 2025). *Jul 2025*
- Selected to represent DGIST at the official institutional booth during the 2025 Korea Science Festival. *Apr 2025*

Skills

Languages	Korean (Native), Chinese (Fluent), English (Proficient)
Programming	Python, C, LaTeX
ML Frameworks	PyTorch, HuggingFace Diffusers, TensorFlow
Libraries	NumPy, Pandas, scikit-learn