Jihun Park *Researcher of Computer Vision & Deep learning*

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Contact Information

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Research Interests

Computer Vision (Style Transfer, Generative Model)
Vision-Language Model

Education

M.S. - Ph.D. Integrated Course, Interdisciplinary Studies of & Artificial Intelligence (ISAI), DGIST, Daegu, South Korea. *Mar. 2023 – present*
***Advisor**: Prof. Sunghoon Im*

Bachelor of Mechanical Engineering, Zhejiang University, Hangzhou, China. *Sep. 2018 – Jul. 2022*

Chungnam Samsung Academy, South Korea *Mar. 2015 – Feb. 2018*

Publications

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", (**Under-Review**).

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", (**Under-Review**).

Jihun Park*, Kyoungmin Lee*, Jongmin Gim*, Hyeonseo Jo, Minseok Oh, Wonhyeok Choi, Kyumin Hwang, Jaeyeul Kim and Sunghoon Im. "Infinite-Story: A Training-Free Consistent Text-to-Image Generation with Scale-wise Autoregressive Model", (**Under-Review**).

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", (**Under-Review**).

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", (**Under-Review**).

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", (**Under-Review**).

Jihun Park*, Jongmin Gim*, Kyoungmin Lee*, Seunghun Lee, and Sunghoon Im. "Style-Editor: Text-driven object-centric style editing", Conference on Computer Vision and Pattern Recognition (**CVPR**), (**Highlight paper, Top 3.7%**) , Jun 2025.

Jongmin Gim*, **Jihun Park***, Kyoungmin Lee*, and Sunghoon Im. "Content-Adaptive Style Transfer: A Training-Free Approach with VQ Autoencoders", Asian Conference on Computer Vision (**ACCV**), Dec 2024.

Work Experience

Software Engineer Intern, Flash billion, Shanghai, China *Jan. 2021 – Mar. 2022*

Awards

- Encouragement prize, 30th HumanTech Paper Awards, *Jan. 2024*
  — Samsung Electronics Co., Ltd.

Projects

- **Multi prompt-based image generation** *Jul. 2024 – Present*
  NIPA, Innovation Hub AI Data Convergence Project.
  Hyperparameter comparison for text-to-image diffusion models with fast sampling. Improving the performance of image editing models via query injection.

- **Software development of smart glasses** *Jul. 2023 – Jun. 2024*
  Daegu Digital Innovation Promotion Agency, Industry-Academic R&BD Collaboration Commercialization Project
  Development of a vision-picking system for the logistics industry based on artificial intelligence object recognition. Development of an object detection module using an object detection model and data processing.

Patents

- 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

- Selected to represent DGIST at the official institutional booth during the 2025 Korea Science Festival *Apr. 2025*
- Delivered an invited presentation at the DGIST Generative AI Integrated Seminar *Oct. 2024*

Skills

Language: Python, C, Latex
Development: Pytorch, Tensorflow
Data Analysis: Numpy, Pandas, scikit-learn