Junseo Park

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RESEARCH INTERESTS

Generative AI · Explainable AI · Image Editing · Multi-Modal Learning

EDUCATION

Ph.D. in Computer Science and Artificial Intelligence — Mar 2026 – Present
Dongguk University · Advisor — Prof. Hyeryung Jang

M.S. in Computer Science and Artificial Intelligence — Sep 2023 – Mar 2026
Dongguk University · GPA 4.50 / 4.50 · Advisor — Prof. Hyeryung Jang

B.E. in Information and Communication Engineering — Mar 2018 – Sep 2023
Dongguk University · GPA 4.21 / 4.50

PUBLICATIONS

1. **J. Park** and H. Jang, **"I2AM: Interpreting Image-to-Image Latent Diffusion Models via Bi-Attribution Maps"**, *The Thirteenth International Conference on Learning Representations (ICLR), 2025.* ICLR 2025
   [Paper] [Poster]
2. **J. Park**, B. Ko, M. Kang, and H. Jang, **"StyleForge: Enhancing Text-to-Image Synthesis for Any Artistic Styles with Dual Binding"**, *Applied Sciences (MDPI), vol. 15, no. 19, 10623, 2025.* Applied Sciences 2025
   [Paper] [arXiv]
3. **J. Park**, B. Ko, and H. Jang, **"StyleBoost: A Study of Personalizing Text-to-Image Generation in Any Style using DreamBooth"**, *2023 14th International Conference on Information and Communication Technology Convergence (ICTC), 2023.* ICTC 2023
   [Paper] [Slides]
4. **J. Park** and H. Jang, **"ART-VITON: Measurement-Guided Latent Diffusion for Artifact-Free Virtual Try-On"**, *Preprint, 2026.* Preprint 2026

Under review: 3 manuscripts — 2 at CVPR, 1 at ACM TOMM.

PROJECTS

Robust QA with DistilBERT — Mar 2024 – Jun 2024
Individual project · NLP, DistilBERT, Data Augmentation · GitHub
Developed a robust question answering model using DistilBERT trained on SQuAD, NewsQA, and Natural Questions. Improved out-of-domain performance using QA-specific text augmentation (EDA) and AutoML-based hyperparameter optimization, increasing F1 from 48.41 to 50.31 and EM from 31.94 to 35.12.

Real-Time Text-to-Image Synthesis with LCM-LoRA — Mar 2024 – Apr 2024
Individual project · SDXL, LCM-LoRA, Flask · GitHub
Built a real-time text-to-image generation service using SDXL with LCM-LoRA to reduce diffusion steps to 1–4. Implemented a Flask-based web interface enabling near real-time image synthesis from user prompts.

Reinforcement Learning Practice — Mar 2023 – Nov 2023
Individual project · Reinforcement Learning, PyTorch, Unity · GitHub
Implemented core reinforcement learning algorithms (DQN, DDQN, PPO, A2C, DDPG) based on David Silver's lectures and research papers. Applied the algorithms to a UAV path planning task to study efficient autonomous navigation.

Consistent Web Novel Illustration Generation — Mar 2023 – Jul 2023
Team project (Capstone Design, 4 members) · Stable Diffusion, DreamBooth, Personalization · GitHub
Developed a diffusion-based illustration generation system for web novels that produces consistent character images. Implemented DreamBooth personalization on Latent Diffusion Models and built a server pipeline to generate stable character illustrations within ~30 seconds. *Role:* Built the AI server and trained a DreamBooth-based personalization model for consistent character generation.

SKILLS

Languages Python, C, Java, SQL, HTML & CSS
Technologies PyTorch, Flask, MySQL, OpenCV, Inkscape, Git