Wonjoon Jin

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https://jinwonjoon.github.io/

RESEARCH INTERESTS

Image and Video Synthesis, 3D Computer Vision, Neural Rendering, Optics

WORK EXPERIENCE

Research Internship, Microsoft Research Asia — Beijing, China
Visual computing team (advisor: Chong Luo) — *Sep. 2024 – Mar. 2025*

Research Internship, Kakao Brain — Seongnam, South Korea
Neural rendering team (advisor: Hyunjoon Lee) — *Jul. 2022 – Sep. 2022*

Research Internship, Hyundai Motors — Seoul, South Korea
Sensor fusion team — *Jan. 2020 – Feb. 2020*

EDUCATION

Pohang University of Science and Technology (POSTECH) — Pohang, South Korea
Ph.D. of Computer Science and Engineering (advisor: Sunghyun Cho) — *Mar. 2021 –*

Sungkyunkwan University — Suwon, South Korea
Bachelor of Mechanical Engineering — *Mar. 2015 – Feb. 2021*

PUBLICATIONS

International Publication (: equal contribution)*

1. **Wonjoon Jin**, Qi Dai, Chong Luo, Seung-Hwan Baek, and Sunghyun Cho, "FloVD: Optical Flow Meets Video Diffusion Model for Enhanced Camera-Controlled Video Synthesis." *Conference on Computer Vision and Pattern Recongnition (CVPR)*, 2025. Website.

2. Daneul Kim, Jingxu Zhang, **Wonjoon Jin**, Sunghyun Cho, Qi Dai, Jaesik Park, Chong Luo, "Subject-driven Video Generation via Disentangled Identity and Motion." *arXiv*, 2025. Website.

3. Haechan Lee*, **Wonjoon Jin***, Seung-Hwan Baek, and Sunghyun Cho, "Generalizable Novel-View Synthesis using a Stereo Camera." *Conference on Computer Vision and Pattern Recongnition (CVPR)*, 2024. Website.

4. Kyungmin Jo*, **Wonjoon Jin***, Jaegul Choo, Hyunjoon Lee, and Sunghyun Cho, "3D-Aware Generative Model for Improved Side-View Image Synthesis.", *International Conference on Computer Vision (ICCV)*, 2023. Website.

5. Youngchan Kim, **Wonjoon Jin**, Sunghyun Cho, and Seung-Hwan Baek, "Neural Spectro-polarimetric Fields.", *SIGGRAPH ASIA*, 2023. Website.

6. **Wonjoon Jin**, Nuri Ryu, Seung-Hwan Baek, and Sunghyun Cho, "Dr.3D: Adapting 3D GANs to Artistic Drawings.", *SIGGRAPH ASIA*, 2022. Website.

Domestic Publication

1. Haechan Lee, **Wonjoon Jin**, Seung-Hwan Baek, and Sunghyun Cho, "Generalizable NeRF Leveraging Stereo Camera" *Korea Software Congress (KSC)*, 2023.

2. **Wonjoon Jin**, Soongjin Kim, Jaesik Park, Seungyong Lee, and Sunghyun Cho, "GC-NeRF: Efficient NeRF Training with Geometric Constraints." *Workshop on Image Processing and Image Understanding (IPIU)*, 2022.

Awards & Honors

Fellowship Award, *POSTECHIAN Fellowship*, 2025.

Paper Award, *Korea Software Congress (KSC)*, 2023.

Teaching Experiences

CSED101: Programming and Problem Solving (POSTECH) Mar. 2024 – June 2024
- Teaching Assistant

AI&Big Data Academy May 2023 & May 2024
- Teaching Assistant
- Topic: Computer Vision

CSED232: Object-Oriented Programming (POSTECH) Mar. 2022 – June 2022
- Teaching Assistant

Extra

Computational Imaging Project (POSTECH, CSED520) Mar. 2023 – Jun. 2023
- Developed multi-plane-based diffusion models for 3D-aware image synthesis.

Reviewers Mar. 2021 –
- The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)
- International Conference on Computer Vision (ICCV)
- IEEE Transactions of Visualization and Computer Graphics (TVCG)
- Pacific Conference on Computer Graphics (Pacific Graphics)
- IEEE Transactions on Image Processing (TIP)

Military Service (South Korea) Jan. 2017 – Oct. 2018