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*

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

Education

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

(*Equal contribution is denoted by "*".*)

⟨ International ⟩

[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.

[2] 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.

[3] 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.

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

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

⟨ Domestic ⟩

[1] **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.

Extra

Computational Imaging Project — Mar. 2023 – Jun. 2023
- Developed a multi-plane-based diffusion model for 3D-aware image synthesis.

Reviewers — Mar. 2021 –
- ICCV 2025
- TVCG
- Pacific Graphics 2023

Teaching Assistant — Mar. 2021 –
- CSED101: Programming and Problem Solving (2024)
- CSED232: Object-Oriented Programming (2022)

Military Service — Jan. 2017 – Oct. 2018