Chehun Han

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Education

Ewha Womans University — Seoul, South Korea
B.S. in Artificial Intelligence — 03/2023 - Present

Work Experience

Research Intern — Seoul, South Korea
IRCV Lab @Hanyang University — 01/2026 - Present
- Advisor: **Prof. Soonmin Hwang**

Research Intern — Pohang, South Korea
Computer Graphics Lab @POSTECH — 06/2025 - 08/2025
- Advisor: **Prof. Seungyong Lee**
- Thesis: Improving the quality of indoor 3D Reconstruction based on 3DGS

Research Intern — Seoul, South Korea
PAI Lab @Ewha Womans University — 03/2024 - 01/2025
- Advisor: **Prof. Junhyug Noh**
- Thesis: Gait Re-Identification based on IMU data

Publications

1. Dayeon Woo[‡1], Eunseo Seo[‡2], **Chehun Han**[‡3], Yeonkyung Lee[‡4], *Changgyun Jin[5], *"Developing a Model for Improving 3D Gaussian Splatting Performance Based on DBSCAN"*, IEIE, Nov. 2024. [Paper] [Code]
   [‡] Equal Contribution

Research Experiences

Indoor 3D Reconstruction Quality Enhancement based on 3DGS — 06/2025 - 08/2025
POSTECH Computer Graphics Lab
- Improved indoor 3D reconstruction using 3D Gaussian Splatting (3DGS) with Polycam by generating novel view camera poses and applying normal/depth consistency losses, resulting in more accurate geometry, enhanced multi-view consistency, and reduced artifacts.
- Role: Responsible for all stages of the project under the guidance of a senior researcher.
- [Project Page]

Implementation of Autonomous Driving Car — 11/2024 - 02/2025
deepdaiv.
- Developed an end-to-end autonomous driving system that integrates object detection, lane recognition, and depth estimation to generate occupancy maps, plans paths using the A* algorithm, and executes control for full perception–planning–control automation.
- Role: Object detection, lane detection, system integration, seminar presentation
- [Project Page]

3DGS Memory Optimization — 05/2024 - 08/2024
deepdaiv.
- A project focused on addressing the high memory usage problem of 3D Gaussian Splatting by developing a new model.
- Role: Optimization architecture design

Awards and Honors

Excellence Award (2^{nd} Prize), AI Idea Competition — 12/2023
Ewha Womans University, Department of AI
- Proposed a multimodal program for diagnosing depression using facial and voice data, smartphone sensors, and usage logs.

Skills and Technique

- Languages: Python, C, JavaScript, HTML/CSS, SQL, Bash
- Technologies: PyTorch, NumPy, Pandas, OpenCV, Open3D, Matplotlib, Flask
- Tools: Git, GitHub, Conda, Docker, LaTeX, Figma
- OS: Ubuntu, Jetson Linux, macOS, Windows