

Hyunjoon Lee

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Seoul National University, Seoul 08826, Republic of Korea

EDUCATION

- **Integrated M.S./Ph.D. in Artificial Intelligence**

Seoul National University

Mar. 2024 - Present

Seoul, Korea

- Advisor: Jaesik Park

- GPA: 4.08/4.3

- **B.E. in Mechanical Engineering**

Sungkyunkwan University

Mar. 2018 - Feb. 2024

Suwon, Korea

- GPA: 4.39/4.5

- Summa Cum Laude (1/131)

RESEARCH INTERESTS

- 3D Vision
- Feature Fields
- Robotics(VLA)

PUBLICATIONS

- **Hyunjoon Lee**, Joonkyu Min, Jaesik Park, *CF3: Compact and Fast 3D Feature Fields*, Int. Conf. on Computer Vision (ICCV), Main Conference & Demonstrations Track, 2025
- Jinmo Kim, Namtae Kim, **Hyunjoon Lee**, Seungha Kim, Jaesik Park, *Occluded Shape Reconstruction via Masked Multi-view Transformer*, **Under review**.
- **Hyunjoon Lee**, Joonkyu Min, Jaesik Park, *Efficient Feature Lifting and Compression Using Pre-trained 3D Gaussians*, Korea Computer Congress (KCC-Domestic), 2025

RESEARCH EXPERIENCES

- Research Intern at Kim Jaechul Graduate School of AI, Korea Advanced Institute of Science and Technology(KAIST), Korea (Jun. 2023 - Sep. 2023)/ *Developed a model to predict 6 DoF grasp poses using a depth sensor*
- Research Intern at Department of Artificial Intelligence, SungKyunKwan University(SKKU), Korea (Jan. 2023 - Jun. 2023)/ *Developed an RL agent using the PPO algorithm and transformer architecture*
- Research Intern at Department of Mechanical Engineering, SungKyunKwan University(SKKU), Korea (Dec. 2019 - Mar. 2020)/ *Developed a mathematical model to elucidate the stiffness mechanism of the soft gripper*

PROJECTS

- Robust Pick and Place, LG Electronics, Korea (Jun. 2023 - Sep. 2023)
- Development of existing radio station protection and frequency sharing technology through spectrum challenge, Institute of Information & Communications Technology Planning & Evaluation, Korea (Jan. 2023 - Jun. 2023)
- Design of two stage reducer, SKKU, Korea (Mar. 2020 - Jun. 2020)

AWARDS AND HONORS

- **Outstanding Paper Presentation Award**, "Efficient Feature Lifting and Compression Using Pre-trained 3D Gaussians", Korea Computer Congress, Korea (Aug. 2025)
- **Invited Talks**, "CF3: Compact and Fast 3D Feature Fields" SNU Graduate of AI Research Exchange, Seoul National University, Korea (Jun. 2025)
- **Outstanding Award at the demo competition**, Seoul National University, Korea (Jun. 2025)
- **Dean's List Award**, SungKyunKwan University(SKKU), Korea (May. 2021)
- **Scholarship for academic excellent**, SungKyunKwan University(SKKU), Korea (Mar. 2021)
- **Dean's List Award**, SungKyunKwan University(SKKU), Korea (Oct. 2020)
- **Scholarship for research excellent**, SungKyunKwan University(SKKU), Korea (Mar. 2020)
- **Scholarship for academic excellent**, SungKyunKwan University(SKKU), Korea (Mar. 2019)
- **Scholarship for academic excellent**, SungKyunKwan University(SKKU), Korea (Sep. 2018)

PATENT

- CF3: Compact and Fast 3D Feature Fields, 10-2025-0093174

SKILLS AND TECHNIQUES

- Pytorch/Python/Numpy/Issac gym/Pybullet
- Matlab/Inventor(3D CAD)/Ansys/Abaqus

TEACHER ASSISTANT

- **Samsung Electronics DS Cooperation Course**, Samsung Electornics (Aug. 2025)
- **Introduction to Artificial Intelligence**, Seoul National University (2025 Spring)
- **Samsung Electronics DS Cooperation Course**, Samsung Electornics (Aug. 2024 - Oct. 2024)
- **Introduction to Artificial Intelligence**, Seoul National University (2024 Spring)