

Sung-hwan Han

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Education

Sogang University M.S. in <i>Artificial Intelligence</i> * Advisor: Prof. Youngmin Yi	Sep. 2025 – Present Seoul, Republic of Korea
Sogang University B.S. in <i>Computer Science and Engineering</i> GPA: 4.33/4.50 Ranked 2nd of 29 (<i>Summa Cum Laude</i>)	Mar. 2019 – Aug. 2025 Seoul, Republic of Korea

Research Interests

- Inference Acceleration & Optimization
- Efficient Vision-Language-Action Models
- Human-Robot Interaction / Robots for Good

Publications

- AdaVLA: Adaptive Step Flow Matching for Training-free Acceleration of Vision-Language-Action Models**
Sunghwan Han, Youngtae Han, Youngmin Yi
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2026. To appear.
- Zero-Shot Quantization for Vision-Language-Action Models via Trajectory Curvature and Attention Guidance**
Sunghwan Han, Youngmin Yi
ICML 2026 Workshop on Adaptive Foundation Models (AdaptFM) [\[Link\]](#)

Awards & Scholarships

- Finalist, NAVER CLOVA AI Rush
Advanced to the finals (Top 12/24); developed AI models for NAVER's tourist attraction classification and landmark detection service. 6th place, Aug. 2022
- 10th K-Hackathon Competition
Top 18 out of 800 participants; designed and implemented a smart umbrella rental system using Arduino and a web application. Encouragement Award, Nov. 2022
- National Science & Technology Scholarship
Awarded by the Korea Student Aid Foundation (Ministry of Education) Mar. 2023 – Feb. 2025
- Dean's List, Top 1% Outstanding Student in Engineering Fall 2023
- 36th Workshop on Image Processing and Image Understanding (IPIU)
Bronze Award for an oral presentation at the Korean Computer Vision Society (KCVS) IPIU workshop. Bronze Award, Feb. 2024

Skills

- Programming Languages: Python, C/C++
- Machine Learning Tools: PyTorch, LeRobot, ONNX, TensorRT, Nsight Systems
- Development: Git, Linux
- Others: $\LaTeX$