

Hyunseo Yang

UNDERGRADUATE STUDENT, SEOUL NATIONAL UNIVERSITY, COLLEGE OF LIBERAL STUDIES

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RESEARCH INTERESTS

- Human-Computer Interaction (HCI), Artificial Intelligence (AI), Large Language Models (LLMs)

Education

Seoul National University

B.S. Candidate in Computer Science and Engineering & Business Administration

- GPA: 4.03 / 4.30

Seoul, S.Korea

Mar. 2021 - Present

Experience

Seoul National University Human-Computer Interaction Lab

Internship, Advisor: Prof. Jinwook Seo

- Co-authored *DirectVis: Editing Code-Based Interactive Visualization with Direct Manipulation*, accepted as a short paper at IEEE PacificVis 2026.
- Co-authoring *Revisiting Map Projections for Geospatial Data Visualizations: A Task-Based Empirical Evaluation* for submission to VIS 2026.
- Leading the development of an interactive diffusion-based image editing system that supports user intervention during denoising and improves iterative editing workflows via restart and refinement strategies (prototyping stage).

Seoul, S.Korea

Dec. 2025 - Present

DeepAuto.ai

Internship

- Led the development of the *DeepTutor.ai* AI demo platform to showcase Long-Context Reasoning technology for clients and investors.
- Designed the overall concept and content of the demo site to effectively communicate technical capabilities while maximizing user engagement.
- Built the end-to-end front-end and performed prompt engineering to improve system robustness and interaction reliability.
- Collaborated with *VMOSTER* to integrate their interactive AI avatar services into the demo platform.
- Enhanced user interaction flows and user experience across the platform through iterative design refinements.

Seoul, S.Korea

Jan. 2025 - Feb. 2025

Publication

DirectVis: Editing Code-Based Interactive Visualization with Direct Manipulation

Jeongin Park, Mingyu An, Hyunseo Yang, Junhyeong Hwangbo, Min Hyeong Kim, Hyeon Jeon, Jinwook Seo

- Designed system functionalities and detailed workflows.
- Designed and implemented LLM-based features enabling novice users to accurately and efficiently specify interactions within visualizations.
- Conducted user study sessions and led statistical analysis of survey responses and behavioral logs to evaluate system effectiveness.

IEEE Pacific Visualization
Conference 2026 Short Paper

Apr. 2026

Projects

Creating Robot Artificial Intelligence Project (CRAIP)

Project Member

- A multi-module ROS2-based autonomous navigation system for a quadruped robot (Unitree Go1) in a Gazebo simulation environment.
- Developed and integrated core robotics modules including localization, perception, and path tracking.
- Built a YOLO-based perception pipeline for object classification and behavior triggering.
- Integrated an LLM-based command interface for natural-language robot control.

Sep. 2025 - Dec. 2025

Honors & Awards

AWARDS

2025 **First Place**, Deep Learning Hardware Design Contest, POLARIS Next-Generation Semiconductor
Convergence Innovation University Program Group

Seoul, Korea

SCHOLARSHIPS

2025 **National Scholarship**, Ministry of Education (Mar.2025 - Present)

2025 **Yudang Scholarship**, Yudang Scholarship Foundation (Mar. 2025 - Present)

Certificates

2022 **Craftsman Information Processing**, Human Resources Development Service of Korea
2024 **Test Of Economic Sense And Thinking**, The Korea Economic Daily

Skills

Programming Java, Python, C/C++, OCaml, Verilog, $\text{\LaTeX}$
Front-end React, D3.js, HTML/CSS
Languages Korean (Native), English