

Cheolhong Min

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EDUCATION

Seoul National University (Seoul, Korea)
Ph.D., Computer Science and Engineering
- Advisor: Prof. Jaesik Park

Sep. 2024 - Present

Yonsei University (Seoul, Korea)
M.S., Artificial Intelligence
- Advisor: Prof. Jonghyun Choi

Sep. 2022 - Aug. 2024
GPA: 4.07 / 4.3

Yonsei University (Seoul, Korea)
B.S., Nano Science and Engineering and Electrical and Electronic Engineering
GPA: 3.47 / 4.3 (Major GPA: 3.68 / 4.3)

Mar. 2016 - Feb. 2022

EXPERIENCE

Microsoft Research Asia

Beijing, China

- Research Intern (Spatial Intelligence Group)
- Mentor: Jiaolong Yang

Mar. 2026 - Sep. 2026

LG Electronics

Seoul, Korea

- Researcher (Vision Software Unit)

Mar. 2022 - Aug. 2022

PUBLICATIONS

Why Far Looks Up: Probing Spatial Representation in Vision-Language Models

Cheolhong Min, Jaeyun Jung, Daeun Lee, Hyeonseong Jeon, Yu Su, Jonathan Tremblay, Chan Hee Song and Jaesik Park

ECCV 2026 **Oral (Spotlight)** pdf project page

Tree-Guided Diffusion Planner

Hyeonseong Jeon, Cheolhong Min and Jaesik Park
NeurIPS 2025 pdf project page

Pre-emptive Action Revision by Environmental Feedback for Embodied Instruction Following Agents

Jinyeon Kim*, Cheolhong Min*, Byeonghwi Kim and Jonghyun Choi

CoRL 2024 pdf project page (* Equal contribution)

ReALFRED: An Embodied Instruction Following Benchmark in Photo-Realistic Environments

Taewoong Kim*, Cheolhong Min*, Byeonghwi Kim, Jinyeon Kim, Wonje Jeung and Jonghyun Choi

ECCV 2024 pdf project page (* Equal contribution)

Context-Aware Planning and Environment-Aware Memory for Instruction Following Embodied Agents

Byeonghwi Kim, Jinyeon Kim, Yuyeong Kim, Cheolhong Min and Jonghyun Choi

ICCV 2023 pdf project page

PROJECTS

Object Detection with ROS

CILAB, Yonsei University

- Thesis Advisor: Prof. Euntai Kim

- Developing Efficient Object Detector for Small Mobile Devices and Applying Human Following Algorithm on Kobuki using ROS.

Jul. 2021 - Dec. 2021

Development of an Autonomous Driving Assistant Robot using a Robot Arm

Roboin, Yonsei University

- Controlling the robot's movement using a map created by SLAM and navigation algorithm and using the robot arm to grab an object.

Jul. 2021 - Nov. 2021

AWARDS, HONORS AND SCHOLARSHIP

1st Place on Generalist Language Grounding Agents Challenge

Embodied AI Workshop, CVPR 2023

ECLAIR: Event-Cognizant Language Interaction Robots

- A Challenge that encourages the development of generalist language grounding agents.

Jun. 2023

Excellence Award in Student Team and Club Competition

Ministry of Education, Seoul Korea

- A competition to cultivate leaders who will lead mobility research and industry based on the convergence of artificial intelligence and IoT technologies. Nov. 2021

High Honor

Yonsei University

- GPA scholarships given to those with excellent grades. Aug. 2020

PATENTS

- **Method for Performing Tasks According to CAPEAM Model Including Context-Aware Planning Module and Environment-Aware Memory Module and AI Agent Using the Same**
Jonghyun Choi, Byeonghwi Kim, Jinyeon Kim, **Cheolhong Min**, Yuyeong Kim
Korea Patent 10-2675973

OTHER EXPERIENCES

- Attended ICVSS 2025 (International Computer Vision Summer School) Jul. 2025

SKILLS

- **Programming Languages:** Python
- **Deep Learning:** Pytorch, Tensorflow
- **Simulators:** Isaac Sim, AI2-THOR, Unity
- **Tools:** Blender, Amazon Mechanical Turk
- **Communication:** Korean (native), English (fluent)