

# Cheolhong Min

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## EDUCATION

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**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

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### LG Electronics

Seoul, Korea

- Researcher (Vision Software Unit)

Mar. 2022 - Aug. 2022

## PUBLICATIONS

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### 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

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### 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

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### 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

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- **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

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

## SKILLS

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