

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

LG Electronics

Seoul, Korea

- Researcher (Vision Software Unit)

Mar. 2022 - Aug. 2022

PUBLICATIONS

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

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

ECCV 2024 pdf project page (* indicates 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

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

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

Submitted for publication (* indicates equal contribution)

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

SKILLS

- **Programming Languages:** Python
- **Deep Learning:** Pytorch, Tensorflow
- **Tools:** Unity, Amazon Mechanical Turk
- **Communication:** Korean (native), English (fluent)