

M.S. student at the Machine Perception and Reasoning Lab, Seoul National University, South Korea
Research interests: Embodied AI, Vision-Language-Action Models, Mobile Manipulation, Online Learning

EDUCATION

M.S. in Artificial Intelligence, Seoul National University Sep 2024 — Feb 2027 (expected)
Seoul, Korea · Advisor: Prof. Jonghyun Choi · GPA: 4.30 / 4.30
B.S. in Computer Science, Yonsei University Mar 2017 — Feb 2024
Seoul, Korea · GPA: 3.80 / 4.30

PUBLICATIONS

* denotes equal contribution.

BINDER: Instantly Adaptive Mobile Manipulation with Open-Vocabulary Commands [arXiv]

Seongwon Cho*, Daechul Ahn*, Donghyun Shin, Hyeonbeom Choi, San Kim, Jonghyun Choi

ICRA 2026 — *IEEE International Conference on Robotics and Automation*

SCALE: Self-uncertainty Conditioned Adaptive Looking and Execution for Vision-Language-Action Models [arXiv]

Hyeonbeom Choi*, Daechul Ahn*, Youhan Lee, Taewook Kang, Seongwon Cho, Jonghyun Choi

ICML 2026 — *International Conference on Machine Learning* (Spotlight, top 2.2%)

What Happens When: Learning Temporal Orders of Events in Videos [arXiv]

Daechul Ahn*, Yura Choi*, Hyeonbeom Choi*, Seongwon Cho, San Kim, Jonghyun Choi

WACV 2026 — *IEEE/CVF Winter Conference on Applications of Computer Vision*

GenOL: Generating Diverse Examples for Name-only Online Learning [arXiv]

Minhyuk Seo, Seongwon Cho, Minjae Lee, Diganta Misra, Hyeonbeom Choi, Seon Joo Kim, Jonghyun Choi

TMLR 2025 — *Transactions on Machine Learning Research*

MANUSCRIPTS UNDER REVIEW

Self-Evolving Robots through Experiential Learning

Seongwon Cho*, Jimin Nam*, Daechul Ahn, Donghyun Shin, Taewook Kang, Jonghyun Choi

Under review, 2026

AWARDS & HONORS

1st Place Award, Continual Test-time Adaptation for Object Detection Challenge Oct 2023

Visual Continual Learning Workshop @ ICCV 2023 · TTA-DAME (arXiv)

1st Place Award, SNU AI Startup Competition Nov 2024

Outstanding Teaching Assistant Award, Dept. of Electrical and Computer Engineering, SNU Jan 2025

Selected as 1 of 12 teaching assistants department-wide, for *Deep Learning* (Fall 2024)

Highest Honors, Yonsei University Fall 2021

Honors, Yonsei University Fall 2022

SCHOLARSHIPS

Jung-hun Educational Foundation Scholarship Sep 2021 — Sep 2023

Merit-based scholarship for undergraduate students

TEACHING EXPERIENCE

Seoul National University, Dept. of Electrical and Computer Engineering

- Teaching Assistant, **Deep Learning** (M2177.003100) — Fall 2024
- Teaching Assistant, **VLSI Seminar** (430.659) — Spring 2025
- Teaching Assistant, **Deep Learning** (M2177.003100) — Fall 2025

SKILLS

- Programming:** Python, C/C++
- Frameworks & Tools:** PyTorch, ROS 2, NVIDIA Isaac Sim, Docker, Slurm
- Robot Platforms:** Hello Robot Stretch (mobile manipulator)
- Languages:** Korean (native), English

MILITARY SERVICE

Republic of Korea Army Dec 2019 — Jun 2021

REFERENCES

Prof. Jonghyun Choi (Advisor) Associate Professor, Seoul National University · jonghyunchoi@snu.ac.kr