

# Minhyuk Seo

**Research Interest:** Continual Learning, Embodied AI, Federated Learning, and Multi-Modal Learning

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## EDUCATION

<b>MS in Computer Science, Yonsei University</b> , Seoul, Korea Advisor: Jonghyun Choi GPA: 4.3 / 4.3	Mar 2023 — Aug 2024 (Early graduation)
<b>BS in Computer Science, Yonsei University</b> , Seoul, Korea 2 years of absence due to obligatory military service (2018 - 2020) GPA: 4.16 / 4.3 - Graduate ranking: 2 / 92 (2%)	Mar 2017 — Feb 2023
<b>Daejeon Dongsin Science High School</b> , Daejeon, Korea	Mar 2014 — Feb 2017

## RESEARCH

<b>Seoul National University</b> , Seoul, Korea Researcher @ SNU Machine Perception and Reasoning Lab • Supervisor: <b>Jonghyun Choi</b>	Sep 2024 — Present
<b>LG AI Research</b> , Seoul, Korea Research Intern @ Advanced Machine Learning Lab • Mentor: <b>Hankook Lee</b>	Feb 2023 — Aug 2023
<b>Yonsei University</b> , Seoul, Yonsei University, Korea Research Undergraduate Intern @ Vision and Learning Lab • Supervisor: <b>Jonghyun Choi</b>	Feb 2022 — Jan 2023
<b>Yonsei University</b> , Seoul, Yonsei University, Korea Research Undergraduate Intern @ Mobile and Embedded System Lab • Supervisor: <b>Hojung Cha</b>	Feb 2021 — Jan 2022

## PUBLICATIONS

- Minhyuk Seo\***, Hyunseo Koh\*, and Jonghyun Choi. [Budgeted Online Continual Learning by Adaptive Layer Freezing and Frequency-based Sampling](#). *arXiv (Under Review)*.
- Minhyuk Seo**, Seongwon Cho, Minjae Lee, Diganta Misra, Hyeonbeom Choi, Seon Joo Kim, Jonghyun Choi. [Just Say the Name: Online Continual Learning with Category Names Only via Data Generation](#). *arXiv (Under Review)*.
- Minhyuk Seo**, Hyunseo Koh, Wonje Jeung, Minjae Lee, San Kim, Hankook Lee, Sungjun Cho, Sungik Choi, Hyunwoo Kim and Jonghyun Choi. [Learning Equi-angular Representations for Online Continual Learning](#). *CVPR 2024*.
- Byeonghwi Kim\*, **Minhyuk Seo\***, and Jonghyun Choi. [Online Continual Learning for Interactive Instruction Following Agents](#). *ICLR 2024*.
- Hyunseo Koh, **Minhyuk Seo**, Jihwan Bang, Hwanjun Song, Deokki Hong, Seulki Park, Jung-Woo Ha, and Jonghyun Choi. [Online Boundary-free Continual Learning by Scheduled Data Prior](#). *ICLR 2023*.

(\* Indicates equal contribution)

## AWARDS & HONORS

Outstanding Research Paper Award in Graduate School, Yonsei University	July 2024
2nd Place Award, CVPR 2024 Workshop on Continual Learning in Computer Vision	May 2024
Bronze Prize, IPIU 2024 Outstanding Paper Awards	Feb 2024
1st Place Award, ICCV 2023 Visual Continual Learning Challenge	Oct 2023
Best Capstone Design Award in Dept. of Computer Science, Yonsei University	Dec 2022
1st place in the HANIUM ICT competition, Minister of Science, ICT and Future Planning Award	Feb 2019
Multiple Honors & Scholarships from Yonsei University	2017 - 2023

SCHOLARSHIPS

2023	<b>Kwanjeong Educational Foundation Scholarship for Graduate Student</b> Full tuition and living expenses during undergraduate years - \$9,000 / semester	Mar 2023 — Aug 2024
2023	<b>Yonsei Bachelor &amp; Master Program Scholarship</b> (Select two students from the department each year) Full tuition during undergraduate years - \$5,000 / semester	Mar 2023 — Aug 2024
2021	<b>Kwanjeong Educational Foundation Scholarship for Bachelor's program</b> Full tuition and living expenses during undergraduate years - \$9,000 / semester	Mar 2021 — Feb 2023
2021	<b>Sejong Human resources and Lifelong Education Development Foundation</b> Living expenses - \$1,500	Jul 2021 — Dec 2021

TALKS

<b>Naver Labs</b> , Seongnam, Republic of Korea	Sep 2024
• Recent Research on Continual Learning	
<b>Apple Research</b> , Seattle, USA	Jun 2024
• Practical Set-ups and Methods for Continual Learning	

TEACHING EXPERIENCE

<b>Yonsei University</b> , Seoul, Korea
• TA of Software Comprehensive Design (Spring 2023)
• TA of Software Comprehensive Design (Fall 2023)
<b>Seoul National University</b> , Seoul, Korea
• TA of Random Variables and Random Processes (Spring 2024)

TECHNICAL SKILLS

<b>Advanced</b>	Python, Java	3 years
<b>Intermediate</b>	C++, R	1 year
<b>Basic</b>	MATLAB, HTML, CSS, JS	6 months
<b>Frameworks</b>	PyTorch	2 years

ACADEMIC SERVICE

Reviewers of
• CVPR (2024-2025), ICLR (2024-2025), AISTATS (2025), ICRA (2025), TPAMI (2024), NeurIPS (2024), NeurIPS Benchmark Track (2024), CoRL @ LLHomeRobots2024

MILITARY SERVICE

Repulic of Korea Army 20 <sup>th</sup> , Yangpyeong, Korea	Mar 2018 - Nov 2019
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