

Minhyuk Seo

Research Interest: Continual Learning, Embodied AI, Federated Learning, and Multi-Modal Learning
e-mail: minhyukseo@yonsei.ac.kr / **webpage:** <https://dbd05088.github.io/>

EDUCATION

MS in Computer Science, Yonsei University, Seoul, Korea Advisor: Jonghyun Choi GPA: 4.3 / 4.3	Mar 2023 — Aug 2024 (Early graduation)
BS in Computer Science, Yonsei University, Seoul, Korea 2 years of absence due to obligatory military service (2018 - 2020) GPA: 4.16 / 4.3 (Ranked 2nd in Dept. of Computer Science)	Mar 2017 — Feb 2023
Daejeon Dongsin Science High School, Dajeon, Korea	Mar 2014 — Feb 2017

RESEARCH

KU Leuven, Leuven, Belgium Visiting Researcher • Supervisor: Tinne Tuytelaars	Fed 2025 (Expected) — Aug 2025 (Expected)
Seoul National University, Seoul, Korea Researcher @ SNU Machine Perception and Reasoning Lab • Supervisor: Jonghyun Choi	Sep 2024 — Jan 2024 (Expected)
LG AI Research, Seoul, Korea Research Intern @ Advanced Machine Learnig Lab • Mentor: Hankook Lee	Feb 2023 — Aug 2023
Yonsei University, Seoul, Yonsei University, Korea Research Undergraduate Intern @ Vision and Learning Lab • Supervisor: Jonghyun Choi	Feb 2022 — Jan 2023
Yonsei University, Seoul, Yonsei University, Korea Research Undergraduate Intern @ Mobile and Embedded System Lab • Supervisor: Hojung Cha	Feb 2021 — Jan 2022

PUBLICATIONS

1. **Minhyuk Seo***, Hyunseo Koh*, and Jonghyun Choi. [Budgeted Online Continual Learning by Adaptive Layer Freezing and Frequency-based Sampling](#). [arXiv \(Under Review\)](#).
2. **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 \(Under Review\)](#).
3. **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**.
4. **Minhyuk Seo***, Byeonghwi Kim* and Jonghyun Choi. [Online Continual Learning for Interactive Instruction Following Agents](#). **ICLR 2024**.
5. 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
2st Place Award, CVPR 2024 Workshop on Continual Learning in Computer Vision		May 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	Kwanjeong Educational Foundation Scholarship for Graduate Student Full tuition and living expenses during undergraduate years - 6 million won / semester	Mar 2023 — Aug 2024
2023	Yonsei Bachelor & Master Program Scholarship (Select two students from the department each year) Full tuition during undergraduate years - 6.5 million won / semester	Mar 2023 — Aug 2024
2021	Kwanjeong Educational Foundation Scholarship for Bachelor’s program Full tuition and living expenses during undergraduate years - 5.5 million won / semester	Mar 2021 — Feb 2023
2021	Sejong Human resources and Lifelong Education Development Foundation 2 million won	Jul 2021 — Dec 2021

TALKS	
Naver Labs , Seongnam, Republic of Korea <ul style="list-style-type: none"> Recent Research on Continual Learning 	Sep 2024
Apple Research , Seattle, USA <ul style="list-style-type: none"> Practical Set-ups and Methods for Continual Learning 	Jun 2024

TEACHING EXPERIENCE	
Yonsei University , Seoul, Korea <ul style="list-style-type: none"> TA of Software Comprehensive Design (Spring 2023) TA of Software Comprehensive Design (Fall 2023) 	
Seoul National University , Seoul, Korea <ul style="list-style-type: none"> TA of Random Variables and Random Processes (Spring 2024) 	

TECHNICAL SKILLS		
Advanced	Python, Java	3 years
Intermediate	C++, R	1 year
Basic	MATLAB, HTML, CSS, JS	6 months
Frameworks	PyTorch	2 years

ACADEMIC SERVICE	
Reviewers of <ul style="list-style-type: none"> CVPR, ICLR, AISTATS, TPAMI, NeurIPS, CoRL @ LLHomeRobots2024, NeurIPS Benchmark Track 	
	2024

MILITARY SERVICE	
Repulic of Korea Army 20 th , Yangpyeong, Korea	Mar 2018 - Nov 2019