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# Minhyuk Seo

Master's Student in Vision and Learning Laboratory @ Yonsei University, South Korea

**Areas of expertise:** Continual Learning, Embodied AI, Federated Learning, Multi-Modal Learning

## 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 (Ranked <b>2nd</b> in Dept. of Computer Science )	Mar 2017 — Feb 2023
<b>Daejeon Dongsin Science High School</b> , Dajeon, Korea	Mar 2014 — Feb 2017

## RESEARCH

<b>KU Leuven</b> , Leuven, Belgium Visiting Scholar • Supervisor: Tinne Tuytelaars.	Fed 2025 (Expected) — Aug 2025 (Expected)
<b>Seoul National University</b> , Seoul, Korea Researcher @ SNU Machine Perception and Reasoning Lab • Supervisor: Jonghyun Choi.	Sep 2024 — Jan 2024 (Expected)
<b>LG AI Research</b> , Seoul, Korea Research Intern @ Advanced Machine Learnig Lab • Mentor: Hankook Lee.	Feb 2023 — Aug 2023
<b>Yonsei University</b> , Seoul, Yonsei University, Korea Research Undergraduate Intern @ Vision and Learning Lab • Supervisor: Jonghyun Choi.	Feb 2022 — Jan 2023
<b>Yonsei University</b> , Seoul, Yonsei University, Korea Research Undergraduate Intern @ Mobile and Embedded System Lab • Supervisor: Hojung Cha.	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**, Diganta Misra, Seongwon Cho, Minjae Lee and 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**.
- Minhyuk Seo\***, Byeonghwi Kim\* 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
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	<b>Kwanjeong Educational Foundation Scholarship for Graduate Student</b> Full tuition and living expenses during undergraduate years - 6 million won / 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 - 6.5 million won / semester	Mar 2023 — Aug 2024
2021	<b>Kwanjeong Educational Foundation Scholarship for Bachelor's program</b> Full tuition and living expenses during undergraduate years - 5.5 million won / semester	Mar 2021 — Feb 2023
2021	<b>Sejong Human resources and Lifelong Education Development Foundation</b> 2 million won	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	

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	2024
• CVPR, ICLR, AISTATS, TPAMI, NeurIPS, CoRL @ LLHomeRobots2024, NeurIPS Benchmark Track	

MILITARY SERVICE

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