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# Minhyuk Seo

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

**Areas of expertise:** Continual Learning, Multi-Modal Learning

## EDUCATION

<b>MS in Computer Science, Yonsei University</b> , Seoul, Korea Advisor: Jonghyun Choi	Feb 2023 — Present
<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 )	Feb 2023 — Present
<b>Daejeon Dongsin Science High School</b> , Dajeon, Korea	Mar 2014 — Feb 2017

## RESEARCH

<b>LG AI Research</b> , Seoul, Korea Research Intern @ Advanced Machine Learnig Lab • Mentor: Hankook Lee and Moontae Lee.	Feb 2023 — Aug 2023
<b>Yonsei University</b> , Seoul, Yonsei University, Korea Research Undergraduate Intern @ Vision and Learning Lab • Supervisor: Jonghyun Choi.	Dec 2021 — Feb 2023
<b>Yonsei University</b> , Seoul, Yonsei University, Korea Research Undergraduate Intern @ Mobile and Embedded System Lab • Supervisor: Hojung Cha.	Dec 2021 — Feb 2023

## PROJECTS

<b>Continual Learning in Text-to-video Retrieval</b> , Yonsei Vision and Learning Lab • Research text-to-video retrieval task in incremental setup	Sep 2023 — Present
<b>Neural Collapse in Continual Learning</b> , LG AI Research • Research Neural Collapse phenomenon in Online Continual Learning	Feb 2023 — Aug 2023
<b>Object Detection Continual Learning for Autonomous Driving</b> , SAIT (Samsung Advanced Institute of Technology) • Develop methods for object detection continual learning in Autonomous Driving	Sep 2022 — Aug 2023
<b>Continual Learning in Noisy Set-up</b> , Vision and Learning Lab • Continual Learning in Noisy Set-up using pre-trained model.	Aug 2022 — Nob 2022
<b>Online continual learning in boundary-free setup</b> , Vision and Learning Lab • Online continual learning in boundary-free setup using Scheduled Data Prior (submitted ICLR 2023)	Jan 2022 — Oct 2022

## PUBLICATIONS

1. **Minhyuk Seo**, 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. **Under Review**.
2. **Minhyuk Seo\***, Hyunseo Koh\*, and Jonghyun Choi. Budgeted Online Continual Learning by Adaptive Layer Freezing and Frequency-based Sampling. **Under Review**.
3. **Minhyuk Seo**, Hyunseo Koh, Wonje Jeung, Min Jae 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. Byeonghwi Kim\*, **Minhyuk Seo\*** 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

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1st Place Award, ICCV 2023 Visual Continual Learning Challenge Track B	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

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2023	<b>Kwanjeong Educational Foundation Scholarship for Graduate Student</b> Full tuition and living expenses during undergraduate years - 5.5 million won / semester	Mar 2023 — Present
2023	<b>Yonsei Bachelor&amp;Master Program Scholarship</b> Full tuition during undergraduate years - 6.5 million won / semester	Mar 2023 — Present
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

## TECHNICAL SKILLS

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

## MILITARY SERVICE

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