

Minhyuk Seo

Research Interest: Continual Learning, Embodied AI, Federated Learning, and Multi-Modal Learning
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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 - Graduate ranking: 2 / 92 (2%) | Mar 2017 — Feb 2023 |
| Daejeon Dongsin Science High School , Daejeon, Korea | Mar 2014 — Feb 2017 |

RESEARCH

| | |
|--|---------------------|
| KU Leuven , Leuven, Belgium Visiting Researcher • Supervisor: Tinne Tuytelaars | Fed 2025 — Present |
| Seoul National University , Seoul, Korea Researcher @ SNU Machine Perception and Reasoning Lab • Supervisor: Jonghyun Choi | Sep 2024 — Present |
| 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

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

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

| TEACHING EXPERIENCE | | |
|---|--|--|
| Yonsei University , Seoul, Korea | | |
| • TA of Software Comprehensive Design (Spring 2023) | | |
| • TA of Software Comprehensive Design (Fall 2023) | | |
| Seoul National University , Seoul, Korea | | |
| • 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 | | |
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| 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 th , Yangpyeong, Korea | | Mar 2018 - Nov 2019 |