

Minhyuk Seo

Contact Information

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Research Interests

Efficient Learning, MultiModal Learning, Continual Learning, Collaborative Learning, and Embodied AI

Education

Yonsei University, Seoul, Korea

M.S. in Computer Science

Mar 2023 - Aug 2024 (Early graduation)

Advisor: **Prof. Jonghyun Choi**

GPA: 4.3/4.3 (4.0/4.0)

B.S. in Computer Science

Mar 2017 - Feb 2023

Ranked **2nd** out of 92 students

GPA: 4.16/4.3 (3.94/4.0)

2 years of absence due to obligatory military service (2018 - 2020)

Research Experience

KU Leuven, Belgium

Mar 2025 - Present

Research Associate @ PSI Group

Advisor: **Prof. Tinne Tuytelaars**

Seoul National University, Korea

Sep 2024 - Feb 2025

Research Assistant @ Machine Perception and Reasoning Lab

Advisor: **Prof. Jonghyun Choi**

LG AI Research, Korea

Feb 2023 - Aug 2023

Research Scientist Intern @ Advanced Machine Learnig Lab

Mentor: **Dr. Hankook Lee**

Publications (Conferences)

🎓 **Google Scholar** (* Indicates equal contribution)

[HEFT: Multi-modal Personalized Federated Learning for Heterogeneous Clients](#)

Minhyuk Seo*, Taeheon Kim*, Hankook Lee, Jonghyun Choi, Tinne Tuytelaars

CVPRW 2025 @ Multimodal Foundation Models Workshop

[Budgeted Online Learning by Adaptive Layer Freezing and Frequency-based Sampling](#)

Minhyuk Seo*, Hyunseo Koh*, Jonghyun Choi

ICLR 2025 (Spotlight)

[Learning Equi-angular Representations for Online Continual Learning](#)

Minhyuk Seo, Hyunseo Koh, Wonje Jeung, Minjae Lee, San Kim, Hankook Lee, Sungjun Cho, Sungik Choi, Hyunwoo Kim, Jonghyun Choi

CVPR 2024

[Online Continual Learning for Interactive Instruction Following Agents](#)

Byeonghwi Kim*, **Minhyuk Seo***, Jonghyun Choi

ICLR 2024

[Online Boundary-free Continual Learning by Scheduled Data Prior](#)

Hyunseo Koh, **Minhyuk Seo**, Jihwan Bang, Hwanjun Song, Deokki Hong, Seulki Park, Jung-Woo Ha, Jonghyun Choi

ICLR 2023

Preprints

[Not All Clients Are Equal: Personalized Federated Learning on Heterogeneous Multi-Modal Clients](#)

Minhyuk Seo*, Taeheon Kim*, Hankook Lee, Jonghyun Choi, Tinne Tuytelaars

Under review, 2025

OASIS: Online Sample Selection for Continual Visual Instruction Tuning
 Minjae Lee*, **Minhyuk Seo***, Tingyu Qu, Tinne Tuytelaars, Jonghyun Choi
Under review, 2025

Just Say the Name: Online Continual Learning with Category Names Only via Data Generation
Minhyuk Seo, Seongwon Cho, Minjae Lee, Diganta Misra, Hyeonbeom Choi, Seon Joo Kim, Jonghyun Choi
Under review, 2025

Awards

- Travel Award, CVPR 2025 June 2025
- Travel Award, ICLR 2025 Apr 2025
- **Silver Prize**, Graduate School Outstanding Research Award, Yonsei University July 2024
- **2nd Place Award**, Continual Learning Challenge (CVPR 2024) May 2024
- **Bronze Prize**, Outstanding Paper Awards, IPIU 2024 Feb 2024
- **1st Place Award**, Visual Continual Learning Challenge (ICCV 2023) Oct 2023
- **Best Capstone Design Award**, Dept. of Computer Science, Yonsei University Dec 2022
- **Minister of Science and ICT Award**, HANUM ICT competition Feb 2019
- Multiple Honors & Scholarships from Yonsei University 2017 - 2023

Scholarships

- Kwanjeong Education Foundation Scholarship (Graduate Students)** Mar 2023 - Aug 2024
- Full tuition or living expenses during graduate years (\$4,500 / semester)
- Yonsei Bachelor & Master Program Scholarship** Mar 2023 - Aug 2024
- One or two students are selected from each department each year
 - Full tuition during graduate studies (\$5,000 / semester)
- Kwanjeong Educational Foundation Scholarship (B.S. Students)** Mar 2021 - Feb 2023
- Full tuition or living expenses during undergraduate years (\$4,000 / semester)
- Sejong Human resources & Education Development Foundation** July 2021 - Dec 2021
- Living expenses (\$1,500)

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)

Talks

- Princeton AI Lab**, New Jersey, USA July 2025
- Toward Efficient Training of MLLMs: Sample Selection and Adaptive Layer Freezing
- Naver Labs**, Seongnam, Korea Sep 2024
- Recent Research on Continual Learning
- Apple Research**, Seattle, USA Jun 2024
- Practical Setups and Methods for Continual Learning

Academic Services

- Reviewer**
- CVPR (2024-2025), ICML (2024-2025), ICLR (2024-2025), AISTATS (2025), ICRA (2025), TPAMI (2024-2025), NeurIPS (2024-2025), ICCV (2025), ACL ARR (May 2025), WACV (2026), CoRL @ LLHomeRobots (2024)
- Program committee member**
- Challenge chair at **ICCV 2025 @ Continual Learning and Computer Vision Workshop**

Skills

Programming Languages

- Python, C/C++, Java

Tools

- Deep Learning Frameworks (PyTorch, TensorFlow)
- Python Scientific Computing Libraries (numpy, scipy, matplotlib, etc.)
- Docker, Slurm

Languages

- Korean(native), English(fluent)

Military Service

Republic of Korea Army 20th, Yangpyeong, Korea

Mar 2018 - Nov 2019

References

Seoul National University

- [Prof. Jonghyun Choi](#) (Advisor) [✉](#)

Associate Professor

KU Leuven

- [Prof. Tinne Tuytelaars](#) (Advisor) [✉](#)

Professor

Sungkyunkwan University

- [Prof. Hankook Lee](#) (Collaborator & Mentor @ LG AI Research) [✉](#)

Assistant Professor

Yonsei University

- [Prof. Seon Joo Kim](#) (Thesis Advisory Committee) [✉](#)

Professor