Soochan **Lee**

Ph.D. Candidate

Seoul, Republic of Korea

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Research Interests

In the pursuit of artificial general intelligence, I believe that one of the next major challenges is continual learning. Specifically, I have been pioneering radically different continual learning approaches that do not rely on gradient descent as the primary learning mechanism. Based on my experience in continual learning, I aim to enable new capabilities in AI models.

Education

Ph.D. Candidate in Computer Science and Engineering

Vision and Learning Lab., Seoul National University
Sep. 2019 – Aug. 2024
(expected)

- Advisor: Gunhee Kim
- Serving as a research specialist to fulfill military duty (Sep. 2021 - Aug. 2024)

M.S. in Computer Science and Engineering

Vision and Learning Lab., Seoul National University *Sep. 2017 – Aug. 2019*

- Advisor: Gunhee Kim

B.S. in Computer Science and Engineering

Seoul National University *Mar. 2013 – Aug. 2017*

Publications

When Meta-Learning Meets Online and Continual Learning: A Survey *arXiv preprint*
Jaehyeon Son*, **Soochan Lee***, and Gunhee Kim *2023*

Recasting Continual Learning as Sequence Modeling *NeurIPS*
Soochan Lee, Jaehyeon Son, and Gunhee Kim *2023*

Recursion of Thought: A Divide and Conquer Approach to Multi-Context Reasoning with Language Models *Findings of ACL*
Soochan Lee and Gunhee Kim *2023*

A Neural Dirichlet Process Mixture Model for Task-Free Continual Learning *ICLR*
Soochan Lee, Junsoo Ha, Dongsu Zhang, and Gunhee Kim *2020*

Harmonizing Maximum Likelihood with GANs for Multimodal Conditional Generation *ICLR*
Soochan Lee, Junsoo Ha, and Gunhee Kim *2019*

Improving Occlusion and Hard Negative Handling for Single-Stage Pedestrian Detectors *CVPR*
Junhyug Noh, **Soochan Lee**, Beomsu Kim, and Gunhee Kim *2018*

Honors & Awards

Qualcomm Innovation Fellowship Korea *2023*

ICLR 2021 Outstanding Reviewer *2021*

Qualcomm Innovation Fellowship Korea *2020*

NeurIPS 2020 Top 10% Reviewer *2020*

Naver Ph.D. Fellowship *2019*

Silver Award, 25th Humantech Paper Award *2019*
Sponsored by Samsung Electronics.

Service

Conference Reviewer
ECCV 2020, NeurIPS 2020, ICLR 2021, ICML 2021, NeurIPS 2021, ICLR 2022,
NeurIPS 2022, ICML 2023, NeurIPS 2023, ICLR 2024

Journal Reviewer
IJCV (2023)

Experiences

Programming
Python, PyTorch

GPU Cluster Management
Linux, Ansible, Slurm *2017 – 2024*