Jeonghyeon Kim

 ma-kjh | in Jeonghyeon Kim | 🌐 ma-kjh.github.io | ✉ mawjdgus@ds.seoultech.ac.kr

RESEARCH INTEREST

Out-of-Distribution Detection, Representation Learning, and Machine Unlearning

PROFESSIONAL EXPERIENCE

DAINTLAB, SeoulTech   Seoul, South Korea
Research Assistant (Advisor: Prof. Sangheum Hwang)   *Aug. 2022 - present*
Research topic: Towards Safe and Reliable Foundation Models

Machine Learning Data Research Group, KISTI   Daejeon, South Korea
Research intern (Advisor: Dr. Ryong Lee)   *Jul 2021 - Aug 2021*
Reserach topic: De-identification of Personal Information in Automotive Driving Images

EDUCATION

Seoul National University of Science and Technology (SeoulTech)   Seoul, South Korea
Ph.D. Student in Data Science (Advisor: Prof. Sangheum Hwang)   *Mar. 2023 - present*
GPA : 4.04/4.5
Seoul National University of Science and Technology (SeoulTech)   Seoul, South Korea
B.S. in Electrical and Information Engineering (double major)   *Mar. 2018 - Feb. 2022*
B.S. in Industrial Engineering   *Mar. 2016 - Feb. 2022*
GPA : 4.05/4.5

PUBLICATIONS

International Conference (IC)
[**IC3**] *"Enhanced OoD Detection through Cross-Modal Alignment of Multi-Modal Representations"*
Jeonghyeon Kim and Sangheum Hwang
Conference on Computer Vision and Pattern Recognition (**CVPR**) 2025
[**IC2**] *"Comparison of Out-of-Distribution detection Performance of CLIP-based Fine-Tuning Methods"*
Jeonghyeon Kim, Jihyo Kim, and Sangheum Hwang
International Conference on Electronics, Information, and Communication (**ICEIC**) 2024 (**Oral**, **Best Paper Award**)
[**IC1**] *"Comparison of Out-of-Distribution detection Performance of CLIP-based Fine-Tuning Methods"*
Jihyo Kim, **Jeonghyeon Kim**, and Sangheum Hwang
Workshop on Practical Deep Learning in the Wild (**AAAI**) 2023

Domestic Conference (DC)
[**DC3**] *"Uncovering Hidden Vulnerabilities in Machine Unlearning: Adversarial Attack as a Probe and Pruning as a Solution"*
Hwiyeong Lee, **Jeonghyeon Kim**, and Sangheum Hwang
Korea Computer Congress (**KCC**) 2024
[**DC2**] *"Uniformity Reduction Regularization: Multimodal Fine-tuning to Enhance Out-of-Distribution Detection Performance"*
Jeonghyeon Kim and Sangheum Hwang

Korea Computer Congress (**KCC**) 2024 (**Oral**)
→ Extended version published in CVPR 2025 [**IC3**]
[**DC1**] *"Enhancing Out-of-Distribution Detection Performance of CLIP Based on Fine-tuning with Random Texts"*
Jeonghyeon Kim, Jihyo Kim, and Sangheum Hwang
Korea Computer Congress (**KCC**) 2023 (**Oral**, **Best Paper Award**)

Licenses and certifications

Engineer Quality Management	Human Resources Development Service of Korea (HRDK)
Credential ID 20204010702Z	*Dec, 2020*
Engineer Information Processing	Human Resources Development Service of Korea (HRDK)
Credential ID 19201021536Y	*May, 2019*

Awards and Achievements

Best Paper Award, ICEIC 2024, [**IC2**]	*Jan. 2024*
Best Paper Award, KCC 2023, [**DC1**]	*Jun. 2023*
Gold Prize, IISE BEAR Program Capstone Competition, Department of IISE at SeoulTech	*Dec. 2021*
School Honor Scholarship, SeoulTech	*Fall 2021*
Departmental Achievement Scholarship, Department of IISE at SeoulTech	*Fall 2017*

Eoeui Scholarship, SeoulTech
(Spring 2018, Fall 2018)
Academic Excellence Scholarship, SeoulTech
(Fall 2016, Spring 2017, Fall 2017, Spring 2021)

Teaching Experience

Deep Learning (113044-41001)	Department of IISE at SeoulTech
Teaching Assistant (Advisor: Prof. Sangheum Hwang)	*Spring Semester, 2024*
Artificial Intelligence (146048-41001)	Department of IISE at SeoulTech
Teaching Assistant (Advisor: Prof. Sangheum Hwang)	*Fall Semester, 2023*

Other Experience

Open-Source Contributor, GitHub (*open-unlearning*)	*Apr. 2025*
FC SeoulTech, FC Ctrl, FC Energizer, FC Maestro (Football Clubs)	*Mar. 2016 - present*
Republic of Korea Army	*Sep. 2018 - Apr. 2020*