

# Jeonghyeon Kim

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## RESEARCH INTEREST

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

## PROFESSIONAL EXPERIENCE

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### DAINTLAB, SeoulTech

Seoul, South Korea

*Research Assistant (Advisor: Prof. Sangheum Hwang)*

*Aug. 2022 - present*

Research topic: Out-of-Distribution Detection through Vision-Language 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

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### Seoul National University of Science and Technology (SeoulTech)

Seoul, South Korea

*Ph.D. Candidate in Data Science (Advisor: Prof. Sangheum Hwang)*

*Mar. 2023 - present*

### 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 and Information Systems Engineering*

*Mar. 2016 - Feb. 2022*

## PUBLICATIONS

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### International Conference

[C3] “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

[C2] “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**)

[C1] “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 at AAAI 2023

### Domestic Conference

[C3] “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

[C2] “Uniformity Reduction Regularization: Multimodal Fine-tuning to Enhance Out-of-Distribution Detection Performance”

**Jeonghyeon Kim** and Sangheum Hwang

Korea Computer Congress (**KCC**) 2024 (Oral)

[C1] “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 Credential ID 20204010702Z	Human Resources Development Service of Korea (HRDK) <i>Dec, 2020</i>
Engineer Information Processing Credential ID 19201021536Y	Human Resources Development Service of Korea (HRDK) <i>May, 2019</i>

AWARDS AND ACHIEVEMENTS

Best Paper Award, ICEIC 2024	<i>Jan. 2024</i>
Best Paper Award, KCC 2023	<i>Jun. 2023</i>
Gold Prize, IISE BEAR program Capstone Competition, SeoulTech	<i>2021</i>
Eui Scholarship (SeoulTech Special Scholarship) <i>(Spring 2018, Fall 2018)</i>	
Academic Excellence Scholarship, Seoul National University of Science and Technology <i>(Fall 2016, Spring 2017, Fall 2017, Spring 2021)</i>	

TEACHING EXPERIENCE

<b>Deep Learning (113044-41001)</b> <i>Teaching Assistant (Advisor: Prof. Sangheum Hwang)</i>	IISE department in SeoulTech, Seoul <i>Fall Semester, 2023</i>
<b>Artificial Intelligence (146048-41001)</b> <i>Teaching Assistant (Advisor: Prof. Sangheum Hwang)</i>	IISE department in SeoulTech, Seoul <i>Spring Semester, 2023</i>

OTHER EXPERIENCE

FC SeoulTech, Ctrl, Energizer, Maestro (Football Clubs)	<i>Mar. 2016 - present</i>
Republic of Korea Army	<i>Sep. 2018 - Apr. 2020</i>