

# 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)*

*Mar. 2023 - present*

Research topic: Towards Safe and Reliable Artificial Intelligence

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

*Aug. 2022 - Feb. 2023*

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

### Korea Institute of Science and Technology Information, KISTI

Daejeon, South Korea

*Research intern (Advisor: Dr. Ryong Lee)*

*Jul 2021 - Aug 2021*

Research topic: De-identification of personal information in automotive driving image data

## 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 Industrial and Information Systems Engineering*

*Mar. 2016 - Feb. 2022*

*B.S. in Electrical and Information Engineering (double major)*

*Mar. 2018 - 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**)

AWARDS AND ACHIEVEMENTS

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Best Paper Award, ICEIC 2024	Jan. 2024
Best Paper Award, KCC 2023	Jun. 2023
Gold Prize, IISE BEAR program Capstone Competition	2021
Academic Excellence Scholarship	Spring 2021
Academic Excellence Scholarship	Fall 2017
Academic Excellence Scholarship	Spring 2017
Academic Excellence Scholarship	Fall 2016

TEACHING EXPERIENCE

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

OTHER EXPERIENCE

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