

# Jeonghyeon Kim

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## RESEARCH INTEREST

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

## PROFESSIONAL EXPERIENCE

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### 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

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### 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 : 4.06/4.5

### 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

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### 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**, Jiho 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”

Jiho 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

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|   |   |
|---|---|
| Engineer Quality Management<br>Credential ID 20204010702Z     | Human Resources Development Service of Korea (HRDK)<br><i>Dec, 2020</i> |
| Engineer Information Processing<br>Credential ID 19201021536Y | Human Resources Development Service of Korea (HRDK)<br><i>May, 2019</i> |

AWARDS AND ACHIEVEMENTS

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|---|------------------|
| Best Paper Award, ICEIC 2024, [ <b>IC2</b> ]  | <i>Jan. 2024</i> |
| Best Paper Award, KCC 2023, [ <b>DC1</b> ]  | <i>Jun. 2023</i> |
| Gold Prize, IISE BEAR Program Capstone Competition, Department of IISE at SeoulTech                     | <i>Dec. 2021</i> |
| School Honor Scholarship, SeoulTech   | <i>Fall 2021</i> |
| Departmental Achievement Scholarship, Department of IISE at SeoulTech                                   | <i>Fall 2017</i> |
| Eoeui Scholarship, SeoulTech<br>( <i>Spring 2018, Fall 2018</i> )                                       |                  |
| Academic Excellence Scholarship, SeoulTech<br>( <i>Fall 2016, Spring 2017, Fall 2017, Spring 2021</i> ) |                  |

TEACHING EXPERIENCE

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|--|---|
| <b>Deep Learning (113044-41001)</b><br><i>Teaching Assistant (Advisor: Prof. Sangheum Hwang)</i>           | Department of IISE at SeoulTech<br><i>Spring Semester, 2024</i> |
| <b>Artificial Intelligence (146048-41001)</b><br><i>Teaching Assistant (Advisor: Prof. Sangheum Hwang)</i> | Department of IISE at SeoulTech<br><i>Fall Semester, 2023</i>   |

OTHER EXPERIENCE

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|   |                              |
|---|------------------------------|
| Open-Source Contributor, GitHub ( <a href="#">open-unlearning</a> ) | <i>Apr. 2025</i>             |
| FC SeoulTech, FC Ctrl, FC Energizer, FC Maestro (Football Clubs)    | <i>Mar. 2016 - present</i>   |
| Republic of Korea Army  | <i>Sep. 2018 - Apr. 2020</i> |