

Sangin Lee

M.S. STUDENT · SEJONG UNIVERSITY

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Education

Sejong University

M.S. IN AI ROBOTICS

- Advisor: Prof. Yukyung Choi
- GPA: 4.5/4.5

Seoul, South Korea

Mar. 2024 – Aug. 2026

Sejong University

B.S. IN DEPARTMENT OF SOFTWARE

- Advisor: Prof. Jaewook Byun
- Major GPA: 3.46/4.5

Seoul, South Korea

Mar. 2017 – Feb. 2024

Research Interests

Efficient AI · Multimodal Perception · Vision-Language Models

Publications

CLIP Tricks You: Training-free Token Pruning for Efficient Pixel Grounding in Large Vision-Language Models

SANGIN LEE, AND YUKYUNG CHOI

- International Conference on Machine Learning (ICML) (Jul. 2026)

Multi-Modal Guided Multi-Source Domain Adaptation for Object Detection

SANGIN LEE, SEOKJUN KWON, JEONGMIN SHIN, NAMIL KIM, AND YUKYUNG CHOI

- Knowledge-Based Systems (Under Review)

INSANet: INtra-INter Spectral Attention Network for Effective Feature Fusion of Multispectral Pedestrian Detection

SANGIN LEE, TAEJOO KIM, JEONGMIN SHIN, NAMIL KIM, AND YUKYUNG CHOI

- Sensors (Feb. 2024)

Patents

Token Pruning for Efficient Pixel Grounding Based on Visual-Text Similarity

YUKYUNG CHOI, AND SANGIN LEE

- Korea Patent, Pending, (May 2026)

Multi-Modal Guided Multi-Source Learning for Object Detection

YUKYUNG CHOI, SANGIN LEE, SEOKJUN KWON, AND JEONGMIN SHIN

- Korea Patent, Pending, 10-2025-0064651 (May 2025)

Attention-based Illumination-aware Multispectral Pedestrian Detection

YUKYUNG CHOI, SANGIN LEE, DOGYEONG KIM, TAEJOO KIM, AND HYEONGJUN KIM

- Korea Patent, Pending, 10-2023-0106387 (Aug. 2023)

Publications

Method for Multi-Source Domain Adaptation for Object Detection

YUKYUNG CHOI, **SANGIN LEE**, SEOKJUN KWON, AND JEONGMIN SHIN

- Apr. 2025

Research Projects

Development of 3D Sensor Fusion Technology for Improving Detection Performance of Unmanned Vehicles

RESEARCH LEADER

- Jan. 2023 – May 2026 (Ongoing)

Development of AI-based high resolution low power smart camera and machine vision integrated solution for defect detection in manufacturing

RESEARCH ASSISTANT

- Apr. 2023 – Dec. 2025

Study on magnetic map matching based localization and vision based anomaly detection algorithm for electrical plant surveillance robots

RESEARCH LEADER

- Jan. 2021 – Dec. 2023

Honors & Awards

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|-----------|---|------------------|
| Nov. 2024 | Special Award (ETRI), Autonomous Driving AI Challenge (MSIT) | <i>3rd Place</i> |
| Jun. 2023 | Honorable Mention, Capstone Design (Sejong Univ.) | <i>3rd Place</i> |
| Fall 2017 | Honorable Mention, Coding Challenge Week (Sejong Univ.) | |

Teaching Experience

SEJONG UNIVERSITY

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|-------------|---------------------------------------|----------------|
| Spring 2024 | Deep Learning System | <i>TA</i> |
| Winter 2023 | Undergraduate Research Program | <i>Head TA</i> |
| Fall 2023 | Advanced C Programming | <i>Head TA</i> |
| Spring 2023 | Machine Learning | <i>TA</i> |

Skills

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|-----------|---|
| Tech | Python, C/C++, MATLAB, PyTorch, HuggingFace, Git, Docker |
| Languages | English (OPIc IM1) |