

# WONGYU LEE

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[Website](#) | [Github](#) | [Google Scholar](#)

## RESEARCH INTERESTS

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**Sound Source Localization, Video Anomaly Detection, Multimodal Representation Learning**

## EDUCATION

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### KyungHee University

*M.S. in Artificial Intelligence (Advised by Prof. Myeong-Ah Cho)*

*Aug. 2025 – Aug. 2027*

- Main Research: Sound Source Localization, Video Anomaly Detection

### KyungHee University

*B.S. with Double Majors in Astronomy and Space Science, and Software Convergence*

*Mar. 2019 – Aug. 2025*

## WORK EXPERIENCE

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### Research Intern and Assistant @ Kyung Hee

*VS Lab.*

*July. 2024 – present*

- Development of AGI platform for multisensory social robot
- Development of a Multi-modal Alignment-based 3D Perception Foundation Model for Autonomous Driving

### Undergraduate Research Intern @ Kyung Hee

*DAVI Lab.*

*Jan. 2023 – Dec. 2023*

- Evaluating students online class concentration via emotion and gaze tracking

### Military service @ Republic of Korea Army

*Reconnaissance and Signals Unit.*

*Oct. 2020 – April. 2022*

- Discharged as a sergeant.

## PUBLICATIONS

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### International Conference

[1] Young-Bean Kim\*, **Won-Gyu Lee**\*, Myeong-Ah Cho<sup>†</sup>, “ASTRA: Joint Latent Representation and Knowledge Transfer for Multi-Modal Anomaly Detection,” *AAAI*, 2026 (under review).

### Domestic Conference

[1] **Won-Gyu Lee**, Jeong-Woo Lee, Myoung-Chul Kim, Su-Bin Ok, Min-Ji Kwon, Dae-ho Lee<sup>†</sup>, “Feature Based Gaze Estimation Using CNN Regression,” *Korea Multimedia Society Fall Conference*, 2023.

[2] Ki-Hyun Kim, **Won-Gyu Lee**, Myeong-Ah Cho<sup>†</sup>, “Long-Term Embedding Vector Memory for Robust Object-Goal Navigation,” *Korean Institute of Information Scientists and Engineers*, 2024.

[3] Jun-Hee Lee, Seung-Jae Kim, Seung-Jae Choi, **Won-Gyu Lee**, Myeong-Ah Cho<sup>†</sup>, “Analysis of Key Conditions for Generalizable Generated Video Detection,” *Korean Institute of Information Scientists and Engineers*, 2024.

[4] Ha-Young Lee, **Won-Gyu Lee**, Seung-Jun Lee, Myeong-Ah Cho<sup>†</sup>, “Enhancing Weakly Supervised Video Anomaly Detection via Fine-grained Anomaly Classifier,” *Korean Institute of Information Scientists and Engineers*, 2025.

## LEADERSHIP ACTIVITIES

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### **Student Council Member**

*Elected Student Council Member, College of Applied Sciences*

Mar. 2019 – Aug. 2020

*KyungHee University, Korea*

## REFERENCE

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**Prof. Myeong-Ah Cho**, Professor, KyungHee

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**Prof. Dae-ho Lee**, Professor, KyungHee

Relationship: Undergraduate research advisor

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