

# Sunghyun Lee

Student

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## Summary

I am an incoming master candidate at KAIST, majoring in Artificial Intelligence. I am interested in Language-centered Multimodal AI and Computational Creativity.

## Education

### **Yonsei University, Seoul, Republic of Korea**

Computer Science & French Language and Literature (Double Major, Summa Cum Laude)

Bachelor

March 2020 - August 2025 | GPA: 3.95/4.3

### **Korean Advanced Institute of Science and Technology (KAIST), Daejeon, Republic of Korea**

Artificial Intelligence

Master

March 2026 - February 2028

## Work Experience

### **Internship as a Machine Learning Engineer and Research Assistant | KAI system**

February 2024 - November 2025

Developed a Machine Learning pipeline for Korean Factory Energy Management System (KFEMS) handling sequential data.

- Patent Pending
- Copyright registration pending

### **Internship as a Research Assistant | MindForge**

December 2023 - February 2024

Developed a Real-time 3D hand pose estimation model for HCI.

## Publications

### **Do Language Models Associate Sound with Meaning? A Multimodal Study of Sound Symbolism |**

Association for the Advancement of Artificial Intelligence (November 2025)

Accepted in AAAI 2026 as Oral Presentation as co-lead author

### **MAVL: A Multilingual Audio-Video Lyrics Dataset for Animated Song Translation |** Empirical Methods in

Natural Language Processing (May 2025)

Accepted in EMNLP 2025 Main Conference as co-second author

### **Speaking Beyond Language: A Large-Scale Multimodal Dataset for Learning Nonverbal Cues from**

**Video-Grounded Dialogues |** Association for Computational Linguistics (June 2025)

Accepted in ACL 2025 Main Conference as third author

## **Projects**

### **Implementing RAG LLM Service for Korean Factory Energy Management System (KFEMS)** (August 2025

- November 2025)

Developed a RAG LLM service for Korean Factory Energy Management System (KFEMS) to provide energy management insights and recommendations.

- Implemented the prototype of internal RAG LLM service for FEMS.

### **Silence and MLLM** (December 2025 - Present)

## **Awards**

### **Graduated with Summa Cum Laude |** Yonsei University (August 2025)

Graduated with Top 3% of the college in GPA

### **Yonsei GenAI contest 2024, silver prize |** Yonsei University (December 2024)

AI-Powered Desktop PC Recommendation System with Conversational Interface

### **Yonsei University Dean's List |** Yonsei University (February 2021)

Dean's List for the academic year 2020 fall semester

### **Yonsei University Dean's List |** Yonsei University (February 2023)

Dean's List for the academic year 2022 fall semester

## **Skills**

**Computer Science:** Python, PyTorch, TensorFlow, Scikit-learn, Computer Vision, Natural Language Processing, Machine Learning, Deep Learning, Data Science, Data Preprocessing and Construction

**French:** French linguistics (Pragmatics, Semantics, Syntax, Morphology), French literature (Video art, Poetry, Novel)

## Languages

Korean (Native speaker), English (Native speaker), French (Intermediate), Japanese (Basic)

## Certificates

**Microsoft Certified: Azure AI Fundamentals** | Microsoft (August 2023)

**Military Service Completion** | Republic of Korea Army (August 2022)