





Seongyu Kim

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 [Google Scholar](#)  [LinkedIn](#)  [GitHub](#)
Multimodal AI Lab, KAIST

Research Interest

My research focuses on multimodal AI, with a particular interest in cross-modal alignment spanning diverse sensory modalities — including vision, audio and touch. I explore how self-supervised learning captures correspondences across modalities, aiming to connect and interpret multi-sensory information in real-world environments.

Education

Korea Advanced Institute of Science and Technology (KAIST) Mar 2023 – Present
Integrated MS/PhD in Electrical Engineering Daejeon, South Korea

- Advisor: Joon Son Chung

Korea Advanced Institute of Science and Technology (KAIST) Mar 2018 – Feb 2023
BS in Electrical Engineering Daejeon, South Korea

Publications

C=Conference, J=Journal, P=Patent, S=In Submission, T=Thesis

[C.2] Seeing Through Touch: Tactile-Driven Visual Localization of Material Regions.

Seongyu Kim, Seoungwoo Lee, Joon Son Chung, Arda Senocak.
IEEE / CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2026.

[J.1] EDNet: A Distortion-Agnostic Speech Enhancement Framework with Gating Mamba Mechanism and Phase Shift-Invariant Training.

Doyeop Kwak, Youngjoon Jang, Seongyu Kim, Joon Son Chung.
IEEE Transactions on Audio, Speech and Language Processing (TASLP), 2026.

[C.1] Seeing Speech and Sound: Distinguishing and Locating Audio Sources in Visual Scenes

Hyeonggon Ryu*, Seongyu Kim*, Joon Son Chung, Arda Senocak.
IEEE / CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025.

* denotes equal contribution.

Honors and Awards

Outstanding Teaching Assistant Award 2025
Deep Learning for Visual Understanding

Dean's List, College of Engineering, KAIST 2021

Academic Activities

Deep Learning for Computer Vision (EE488/EE40034) Fall 2023, 2024, 2025
Teaching Assistant

- Head TA in Fall 2025

Speech Recognition Systems (EE738/EE70038) Spring 2024, 2025
Teaching Assistant

- Head TA in Spring 2025

Experiences

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Multimodal AI Lab, KAIST

Undergraduate Research Intern

- Advisor: Joon Son Chung
- Audio-Visual Learning, Sound Source Localization, Speech Recognition

Mar 2022 – Feb 2023

South Korea

VIC Lab, KAIST

Undergraduate Research Intern

- Advisor: Munchurl Kim
- Computer Vision, Super Resolution

Dec 2021 – Feb 2022

South Korea

SMILE Lab, KAIST

Undergraduate Research Intern

- Advisor: Song Min Kim
- Machine Learning, Embedded System

Jun 2021 – Aug 2021

South Korea

SK hynix

Industry Intern

- NAND PE / NAND WT Team

Jul 2020 – Aug 2020

South Korea

Skills

Programming: Python, PyTorch, C

Languages: Korean (Native), English (Fluent)

References

Joon Son Chung

Associate Professor, Electrical Engineering

Korea Advanced Institute of Science and Technology (KAIST)

✉ joonsonchung@gmail.com

Relationship: PhD advisor at KAIST