

Suyeon Lee

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RESEARCH INTEREST

My research focuses on enhancing conversational and auditory experiences in challenging acoustic environments. I am also interested in exploring generative models and multimodal contrastive learning.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) <i>Ph.D. in Electrical Engineering</i>	Mar 2025 - Present <i>Advisor: Prof. Joon Son Chung</i>
Korea Advanced Institute of Science and Technology (KAIST) <i>M.S. in Electrical Engineering</i> • Thesis: Multi-modal Speech and Audio Separation System	Mar 2023 - Feb 2025 <i>Advisor: Prof. Joon Son Chung</i>
Korea Advanced Institute of Science and Technology (KAIST) <i>B.S. in Electrical Engineering</i>	Mar 2018 - Feb 2023

PUBLICATIONS *: Equal Contribution

- [C4] **Model-Guided Dual-Role Alignment for High-Fidelity Open-Domain Video-to-Audio Generation**
Kang Zhang*, Trung X. Pham*, **Suyeon Lee**, Axi Niu, Arda Senocak, Joon Son Chung
NeurIPS 2025
- [C3] **FlowAVSE: Efficient audio-visual speech enhancement with conditional flow matching**
Chaeyoung Jung, **Suyeon Lee**, Ji-Hoon Kim, Joon Son Chung
Interspeech 2024
- [C2] **Seeing through the conversation: Audio-visual speech separation based on diffusion model**
Suyeon Lee*, Chaeyoung Jung*, Youngjoon Jang, Jaehun Kim, Joon Son Chung
ICASSP 2024
- [C1] **TalkNCE: Improving active speaker detection with talk-aware contrastive learning**
Chaeyoung Jung*, **Suyeon Lee***, Kihyun Nam, Kyeongha Rho, You Jin Kim, Youngjoon Jang, Joon Son Chung
ICASSP 2024

EXPERIENCES

Undergraduate Research Intern <i>MMAI Lab, KAIST</i>	Mar 2022 - Feb 2023 <i>Advisor: Prof. Joon Son Chung</i>
Research Intern <i>AIRS Company, Hyundai Motor Group</i> • Worked on wake word detection to activate in-car voice assistant	Sep 2021 - Feb 2022 <i>Gangnam-gu, Seoul</i>
Undergraduate Research Intern <i>SSSC Lab, KAIST</i>	Mar 2021 - Aug 2021 <i>Advisor: Prof. Hoirin Kim</i>
Undergraduate Research Intern <i>TOPS Lab, KAIST</i>	Jun 2020 - Dec 2020 <i>Advisor: Prof. Kitae Jang</i>

HONORS AND AWARDS

NIST Speaker Recognition Evaluation (SRE) <i>Achieved 1st Place (Winner) in the Audio Track and 4th Place in the Audio-Visual Track</i>	2024
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SKILLS

Programming: Python, C, PyTorch

ACADEMIC ACTIVITIES

Teaching Assistant	Fall 2023, Fall 2025
<i>KAIST - EE488: Deep learning for Computer Vision</i>	

LANGUAGES

Korean: Native
English: Proficient