

Jaemin Jung

PhD Student, KAIST.

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RESEARCH INTEREST

- My research interests focus on multimodal generative AI. I am particularly interested in unified audio generation and joint audio-video generation.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)
Integrated M.S./Ph.D. in Electrical Engineering; Advisor: Joon Son Chung
GPA:4.15/4.30

Daejeon, South Korea
Mar. 2022 – Present

Kyunpook National University
B.S. in Electronics Engineering;
GPA:4.12/4.30

Daegu, South Korea
Mar. 2016 – Feb. 2022

WORK EXPERIENCE

Seoul National University (SNU)
Research Student, Speech Recognition Lab.

Seoul, South Korea
Jul. 2021 - Sep. 2021

Electronics and Telecommunications Research Institute (ETRI)
Research Intern, Digital Holography Lab.

Daejeon, South Korea
Jun. 2020 - Sep. 2020

PUBLICATION

International Conference

- Inference-Time Scaling for Joint Audio-Video Generation (under review).
Jaemin Jung, Kyeongha Rho, Inkyu Shin and Joon Son Chung
- SCORE: Scaling audio generation using Standardized COmposite REwards (under review).
Jaemin Jung, Jaehun Kim*, Inkyu Shin and Joon Son Chung*
- Test-Time Augmentation for Pose-invariant Face Recognition.
Jaemin Jung, Youngjoon Jang*, and Joon Son Chung*
- International Conference on Automatic Face and Gesture Recognition (FG), 2025.
- VoiceDiT: Dual-Condition Diffusion Transformer for Environment-Aware Speech Synthesis.
Jaemin Jung, Junseok Ahn*, Chaeyoung Jung, Tan Dat Nguyen, Youngjoon Jang, and Joon Son Chung*
- International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2025.
- VoxMM: Rich Transcription of Conversations in the Wild.
Doyeop Kwak, Jaemin Jung*, Kihyun Nam, Youngjoon Jang, Jee-weon Jung, Shinji Watanabe, and Joon Son Chung*
- International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2024.
- Metric Learning for User-Defined Keyword Spotting.
Jaemin Jung, Youkyum Kim*, Jihwan Park, Youshin Lim, Byeong-Yeol Kim, Youngjoon Jang, and Joon Son Chung*
- International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023.

International Journal

- Bridging the Gap between Audio and Text using Parallel-attention for User-defined Keyword Spotting.
Youkyum Kim, Jaemin Jung*, Jihwan Park, Byeong-Yeol Kim, and Joon Son Chung*
- IEEE Signal Processing Letters (SPL), 2025.

AWARDS & HONORS

Teaching Assistance, KAIST

- Outstanding Teaching Assistant Awards for Education4.0 Q Program (Fall. 2024)

TEACHING

Teaching Assistance (TA) at EE, KAIST

- EE488: Deep learning for visual understanding (Fall, 2022)
- EE738: Speech recognition systems (Spring, 2023)
- EE488: Deep learning for visual understanding (Fall, 2024)
- KAIST EE Visit Camp 2025, Head TA (2025)