

Interests

Speech processing, Representation learning, Multimodal learning

SPEAKER RECOGNITION, SPEECH RECOGNITION, AUDIO-VISUAL MULTIMODAL LEARNING

Work Experience

NAVER Clova Speech (Internship)

DEEP LEARNING RESEARCHER

S.Korea

Sep. 2019 - Feb. 2020

- Implemented End-to-End Automatic Speech Recognition models.
- Implemented Active Learning system for Automatic Speech Recognition.

Mar. 2021 - Sep. 2021

- Implemented Speech Representation Model using Normalizing Flow.
- Implemented End-to-End Forced Aligner with Sentence-Alignment.

Education

Korea Advanced Institute of Science and Technology (KAIST)

PH.D. IN SCHOOL OF ELECTRICAL ENGINEERING; ADVISOR: JOON SON CHUNG

S.Korea

Aug. 2024 - Present

Korea Advanced Institute of Science and Technology (KAIST)

M.S. IN SCHOOL OF ELECTRICAL ENGINEERING; ADVISOR: JOON SON CHUNG

S.Korea

Aug. 2022 - Aug. 2024

HUFS(Hankuk University of Foreign Studies)

B.S. IN COMPUTER SCIENCE; GPA: 4.1/4.5

S.Korea

Mar. 2015 - Aug. 2022

Publication

International Conferences

PAPERS

- "Disentangled Representation Learning for Environment-agnostic Speaker Recognition"
- **Nam, K.**, Heo, H. S., Jung, J. W., & Chung, J. S.
- **INTERSPEECH**, 2024.
- "Rethinking Session Variability: Leveraging Session Embeddings for Session Robustness in Speaker Verification"
- Heo, H. S., **Nam, K.**, Lee, B. J., Kwon, Y., Lee, M., Kim, Y. J., & Chung, J. S.
- International Conference on Acoustics, Speech and Signal Processing (**ICASSP**), 2024.
- "TalkNCE: Improving Active Speaker Detection with Talk-Aware Contrastive Learning"
- Jung, C., Lee, S., **Nam, K.**, Rho, K., Kim, Y. J., Jang, Y., & Chung, J. S.
- International Conference on Acoustics, Speech and Signal Processing (**ICASSP**), 2024.
- "VoxMM: Rich Transcription of Conversations in the Wild"
- Kwak, D., Jung, J., **Nam, K.**, Jang, Y., Jung, J. W., Watanabe, S., & Chung, J. S.
- International Conference on Acoustics, Speech and Signal Processing (**ICASSP**), 2024.
- "Disentangled Representation Learning for Multilingual Speaker Recognition"
- ***Nam, K.**, ***Kim, Y.**, Huh, J., Heo, H.-S., Jung, J.-w., Chung, J.S.
- **INTERSPEECH**, 2023.
- "ClovaCall: Korean Goal-Oriented Dialog Speech Corpus for Automatic Speech Recognition of Contact Centers"
- ***Ha, J.**, ***Nam, K.**, Kang, J., Lee, S., Yang, S., Jung, H., Kim, H., Kim, E., Kim, S., Kim, H.A., Doh, K., Lee, C.K., Sung, N., Kim, S.
- **INTERSPEECH**, 2020.

International Journals

PAPERS

- "SSS-AE: Anomaly detection using self-attention based sequence-to-sequence auto-encoder in smd assembly machine sound"
- ***Nam, Ki Hyun**, ***Young Jong Song**, and **Il Dong Yun**
- **IEEE Access**, 2021.

Teaching

Teaching Assitance (TA) at EE, KAIST

Daejeon, S.Korea

* EE488: COMPUTER VISION (FALL, 2023)

* EE738: SPEECH RECOGNITION SYSTEMS (FALL, 2022)

Technical Skills

Programming: C++, Python, Pytorch