

Jee-weon Jung (updated July 8, 2024)

Email: jeeweonj@ieee.org

Github: <https://github.com/Jungjee>

Google Scholar: <https://scholar.google.com/citations?user=A5OcLdAAAAAJ>

Webpage: <https://jungjee.github.io>

EDUCATION

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- **PhD, Computer Science and Engineering** March 2017 - February 2021
University of Seoul
Thesis: Raw waveform speaker verification using an end-to-end deep neural network architecture and feature map scaling
Supervisor: Ha-Jin Yu
 - **BBA** March 2013 - February 2017
University of Seoul
Seoul, Republic of Korea
 - **BS, Computer Science and Engineering (Double major)** March 2013 - February 2017
University of Seoul
Seoul, Republic of Korea

PROFESSIONAL EXPERIENCE

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- **Carnegie Mellon University** May 2023 -
Postdoctoral Research Associate
 - **Papers:** published 23 peer-reviewed papers
 - **Naver Clova, Republic of Korea** December 2020 - April 2023
Research Scientist (full time)
 - **Speaker recognition:** developed speaker embedding extractors for ClovaNote service
 - **Sound(audio) event detection:** developed volleyball whistle detection models for Naver volleyball streaming service.
 - **Audio anti-spoofing:** Developed state-of-the-art anti-spoofing systems.
 - **Papers and patents:** published 27 peer-reviewed papers and filed 3 patents

HONORS AND AWARDS

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- Ranked **1st** place at the **DCASE 2024 Challenge task 6** (automated audio captioning, AAC) - 2024
 - Ranked **1st** place at the **DCASE 2023 Challenge task 6-a** (automated audio captioning, AAC) - 2023
 - Ranked **3rd** place at the **Third DIHARD Speech Diarisation Challenge** (track 1 core, speaker diarization, SD) - 2021
 - Ranked 4th place at the **DCASE 2021 Challenge task 1-a** (acoustic scene classification, ASC) - 2021
 - Ranked 6th place at the **DCASE 2019 Challenge task 1-a** (acoustic scene classification, ASC) - 2019
 - Samsung Convergence Software Course Scholarship - 2015

SKILLS

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- **Language skills:** English, Korean (native), Chinese
 - **Programming:** Python, Bash, C
 - **Toolkits:** PyTorch, Theano, Keras, Kaldi

COMMUNITY ENGAGEMENTS

[Organizing special sessions, challenges, and workshops]

- **Spoofing-aware Speaker Verification (SASV) 2022 challenge** and a special session at Interspeech (Founding organizer)
- VoxCeleb Speaker Recognition Challenge and Interspeech satellite workshops **2022** and **2023**
- **Automatic Speaker Verification and Spoofing Countermeasures (ASVspoof) 5**

[Chairing sessions]

- IEEE ICASSP 2022
- ISCA Interspeech 2022
- ISCA Odyssey 2024

[Reviewing conference and journal submissions]

- IEEE TASLP
- IEEE ICASSP
- IEEE ASRU
- IEEE SPL
- IEEE Access
- ISCA Interspeech
- ISCA Odyssey
- Nature Scientific reports
- Elsevier CSL
- DCASE
- EUSIPCO

TEACHING

- **Speaker recognition and diarization – guest lecture** Spring 2024
Carnegie Mellon University, 11492/11692/18495: Speech Technology for Conversational AI PA, United States
- **Speaker recognition in speech processing – guest lecture** Spring 2023
Carnegie Mellon University, 11492/11692/18495: Speech Processing PA, United States
- **Python programming – 3-day course** September 2019
Korea Meteorological Administration Jeju, Republic of Korea
- **Python for deep learning** May 2019
Korea Meteorological Administration Jeju, Republic of Korea
- **Raw waveform speaker verification – invited talk** January 2019
Naver Kyung-gi, Republic of Korea

PUBLICATIONS (*equal contribution; 80 publications, including 41 first and 3 corresponding author publications)

[2024]: 20 publications, including 7 first author publications

- [Paper] **Jee-weon Jung***, Xin Wang*, Nicholas Evans, Shinji Watanabe, Hye-jin Shim, Hemlata Tak, Siddhant Arora, Junichi Yamagishi, Joon Son Chung, “To what extent can ASV systems naturally defend against spoofing attacks?,” in Proc. **Interspeech**.
- [Paper] **Jee-weon Jung***, Wangyou Zhang*, Jiatong Shi*, Zakaria Aldeneh, Takuya Higuchi, Barry-John Theobald, Ahmed Hussien Abdelaziz, Shinji Watanabe, “ESPnet-SPK: full pipeline speaker embedding toolkit with reproducible recipes, self-supervised front-ends, and off-the-shelf models,” in Proc. **Interspeech**.
- [Paper] Kihyun Nam, Hee-Soo Heo, **Jee-weon Jung**, Joon Son Chung, “Disentangled Representation Learning for Environment-agnostic Speaker Recognition,” in Proc. **Interspeech**.
- [Paper] Wangyou Zhang, Kohei Saijo, **Jee-weon Jung**, Chenda Li, Shinji Watanabe, Yanmian Qian, “Beyond Performance Plateaus: A Comprehensive Study on Scalability in Speech Enhancement,” in Proc. **Interspeech**.
- [Paper] Zakaria Aldeneh, Takuya Higuchi, **Jee-weon Jung**, Skyler Seto, Tatiana Likhomanenko, Stephen Shum, Ahmed Hussien Abdelaziz, Shinji Watanabe, Barry-John Theobald, “Can you Remove the Downstream Model for Speaker Recognition with Self-Supervised Speech Features?,” in Proc. **Interspeech**.
- [Paper] Yifan Peng, Jinchuan Tian, William Chen, Siddhant Arora, Brian Yan, Yui Sudo, Muhammad Shakeel, Kwanghee Choi, Jiatong Shi, Xuankai Chang, **Jee-weon Jung**, Shinji Watanabe, “OWSM v3.1: Better and Faster Open Whisper-Style Speech Models based on E-Branchformer,” in Proc. **Interspeech**.
- [Paper] Hye-jin Shim*, **Jee-weon Jung***, Tomi Kinnunen, Nicholas Evans, Jean-Francois Bonastre, Itshak Lapidot, “a-DCF: an architecture agnostic metric with application to spoofing-robust speaker verification,” in Proc. Speaker Odyssey.
- [Paper] **Jee-weon Jung***, Roshan Sharma*, William Chen, Bhiksha Raj, Shinji Watanabe, “AugSumm: towards generalizable speech summarization using synthetic labels from large language models,” in Proc. **ICASSP**.
- [Paper] Wangyou Zhang*, **Jee-weon Jung***, Shinji Watanabe, Yanmin Qian, “Improving Design of Input Condition Invariant Speech Enhancement,” in Proc. **ICASSP**.
- [Paper] Kwanghee Choi, **Jee-weon Jung**, Shinji Watanabe, “Understanding Probe Behaviors through Variational Bounds of Mutual Information,” in Proc. **ICASSP**.
- [Paper] Samuele Cornell, **Jee-weon Jung**, Shinji Watanabe, Stefano Squartini, “One model to rule them all? Towards End-to-End Joint Speaker Diarization and Speech Recognition,” in Proc. **ICASSP**.
- [Paper] Doyeop Kwak*, Jaemin Jung*, Kihyun Nam, Youngjoon Jang, **Jee-weon Jung**, Shinji Watanabe, Joon Son Chung, “VoxMM: Rich Transcription of Conversations in the Wild,” in Proc. **ICASSP**.
- [Paper] Soumi Maiti, Yifan Peng, Shukjae Choi, **Jee-weon Jung**, Xuankai Chang, Shinji Watanabe, “VoxTlm: unified decoder-only models for consolidating speech recognition, synthesis and speech, text continuation tasks,” in Proc. **ICASSP**.
- [Paper] Shih-Lun Wu, Xuankai Chang, Gordon Wichern, **Jee-weon Jung**, François Germain, Jonathan Le Roux, Shinji Watanabe, “Improving Audio Captioning Models with Fine-grained Audio Features, Text Embedding Supervision, and LLM Mix-up Augmentation,” in Proc. **ICASSP**.
- [Paper] Xuankai Chang, Brian Yan, Kwanghee Choi, **Jee-weon Jung**, Yichen Lu, Soumi Maiti, Roshan Sharma, Jiatong Shi, Jinchuan Tian, Shinji Watanabe, Yuya Fujita, Takashi Maekaku, Pengcheng Guo, Yao-Fei Cheng, Pavel Denisov, Kohei Saijo, Hsiu-Hsuan Wang, “Exploring Speech Recognition, Translation, and Understanding with Discrete Speech Units: A Comparative Study,” in Proc. **ICASSP**.
- [Paper] Siddhant Arora, Hayato Futami, **Jee-weon Jung**, Yifan Peng, Roshan Sharma, Yosuke Kashiwagi, Emiru Tsunoo, Shinji Watanabe, “UniverSLU: Universal Spoken Language Understanding for Diverse Classification and Sequence Generation Tasks with a Single Network,” in Proc. **NAACL**.
- [Paper] Siddhant Arora, Ankita Pasad, Chung-Ming Chien, Jionghao Han, Roshan Sharma, **Jee-weon Jung**, Hira Dhamyal, William Chen, Suwon Shon, Hung-yi Lee, Karen Livescu, Shinji Watanabe, “On the Evaluation of Speech Foundation Models for Spoken Language Understanding,” in Proc. **ACL Findings**.

- [Preprint] Minsu Kim*, **Jee-weon Jung***, Hyeonseop Rha, Soumi Maiti, Siddhant Arora, Xuankai Chang, Shinji Watanabe, Yong Man Ro, “TMT: Tri-Modal Translation between Speech, Image, and Text by Processing Different Modalities as Different Languages,” in [arXiv](#).
- [Preprint] Hye-jin Shim, Md Sahidullah, **Jee-weon Jung**, Shinji Watanabe, Tomi Kinnunen, “Beyond Silence: Bias Analysis through Loss and Asymmetric Approach in Audio Anti-Spoofing,” in [arXiv](#).
- [Tech. Rep] **Jee-weon Jung**, Dong Zhang, Chao-Han Huck Yang, Shih-Lun Wu, David M. Chan, Zhifeng Kong, Ruifan Deng, Yaqian Zhou, Rafael Valle, Shinji Watanabe, “Automatic Audio Captioning with Encoder Fusion, Multi-Layer Aggregation, and Large Language Model Enriched Summarization,” in https://dcase.community/documents/challenge2024/technical_reports/DCASE2024_Jung_74.t6.pdf.

[2023]: 13 publications, including 3 first and 3 corresponding author publications

- [Paper] Yifan Peng, Jinchuan Tian, Brian Yan, Dan Berrebbi, Xuankai Chang, Xinjian Li, Jiatong Shi, Siddhant Arora, William Chen, Roshan Sharma, Wangyou Zhang, Yui Sudo, Muhammad Shakeel, **Jee-weon Jung**, Soumi Maiti, Shinji Watanabe, “Reproducing Whisper-Style Training Using an Open-Source Toolkit and Publicly Available Data,” in Proc. IEEE ASRU.
- [Paper] **Jee-weon Jung**, Soonshin Seo, Hee-Soo Heo, Geonmin Kim, You Jin Kim, Young-ki Kwon, Minjae Lee, and Bong-Jin Lee, “Encoder-decoder multimodal speaker change detection,” in Proc. **Interspeech**.
- [Paper] Sung Hwan Mun*, Hye-jin Shim*, Hemlata Tak*, Xin Wang, Xuechen Liu, Md Sahidullah, Myeonghun Jeong, Min Hyun Han, Massimiliano Todisco, Kong Aik Lee, Junichi Yamagishi, Nicholas Evans, Tomi Kinnunen, Nam Soo Kim, and **Jee-weon Jung**, “Towards single integrated spoofing-aware speaker verification embeddings,” in Proc. **Interspeech**.
- [Paper] Hye-jin Shim, **Jee-weon Jung**, Tomi Kinnunen, “Multi-Dataset Co-Training with Sharpness-Aware Optimization for Audio Anti-spoofing,” in Proc. **Interspeech**.
- [Paper] Kihyun Nam, Youkyum Kim, Jaesung Huh, Hee Soo Heo, **Jee-weon Jung**, Joon Son Chung, “Disentangled representation learning for multilingual speaker recognition,” in Proc. **Interspeech**.
- [Paper] Hee-Soo Heo, **Jee-weon Jung**, Jingu Kang, Youngki Kwon, You Jin Kim, Bong-Jin Lee, Joon Son Chung, “Curriculum learning for self-supervised speaker verification,” in Proc. **Interspeech**.
- [Paper] **Jee-weon Jung**, Hee-Soo Heo, Bong-Jin Lee, Jaesung Huh, Andrew Brown, Youngki Kwon, Shinji Watanabe, Joon Son Chung, “In search of strong embedding extractors for speaker diarisation,” in Proc. **ICASSP**.
- [Paper] You Jin Kim*, Hee-Soo Heo*, **Jee-weon Jung***, Youngki Kwon, Bong-Jin Lee, Joon Son Chung, “Advancing the dimensionality reduction of speaker embeddings for speaker diarisation: disentangling noise and informing speech activity,” in Proc. **ICASSP**.
- [Paper] Hee-Soo Heo, Youngki Kwon, Bong-Jin Lee, You Jin Kim, **Jee-weon Jung**, “High-resolution embedding extractor for speaker diarisation,” in Proc. **ICASSP**.
- [Paper] Youngki Kwon, Hee-Soo Heo, Bong-Jin Lee, You Jin Kim, **Jee-weon Jung**, “Absolute decision corrupts absolutely: conservative online speaker diarisation,” in Proc. **ICASSP**.
- [Preprint] Jaesung Huh, Andrew Brown, **Jee-weon Jung**, Joon Son Chung, Arsha Nagrani, Daniel Garcia-Romero, Andrew Zisserman, “VoxSRC 2022: The Fourth VoxCeleb Speaker Recognition Challenge,” in [arXiv](#).
- [Tech. Rep] Shih-Lun Wu, Xuankai Chang, Gordon Wichern, **Jee-weon Jung**, François Germain, Jonathan Le Roux, Shinji Watanabe, “BEATs-based Audio Captioning Model with Instructor Embedding Supervision and ChatGPT Mix-up,” in https://dcase.community/documents/challenge2023/technical_reports/DCASE2023_Wu_31.t6a.pdf.
- [Tech. Rep] Hector Delgado, Nicholas Evans, **Jee-weon Jung**, Tomi Kinnunen, Ivan Kukanov, Kong Aik Lee, Xuechen Liu, Hye-jin Shim, Md Sahidullah, Hemlata Tak, Massimiliano Todisco, Xin Wang, Junichi Yamagishi, “ASVspooF 5 Evaluation Plan,” in https://www.asvspoof.org/file/ASVspooF5_Evaluation_Plan.pdf.

[2022]: 10 publications, including 6 first author publications

- [Paper] **Jee-weon Jung**, Hee-Soo Heo, Hemlata Tak, Hye-jin Shim, Joon Son Chung, Bong-Jin Lee, Ha-Jin Yu, Nicholas Evans, “Aasist: Audio anti-spoofing using integrated spectro-temporal graph attention networks,” in Proc. **ICASSP**.
- [Paper] Hye-jin Shim, **Jee-weon Jung**, Ju-ho Kim, Ha-Jin Yu, “Attentive Max Feature Map and Joint Training for Acoustic Scene Classification,” in Proc. **ICASSP**.
- [Paper] Youngki Kwon, Hee-Soo Heo, **Jee-weon Jung**, You Jin Kim, Bong-Jin Lee, Joon Son Chung, “Multi-scale speaker embedding-based graph attention networks for speaker diarisation,” in Proc. **ICASSP**.
- [Paper] **Jee-weon Jung***, You Jin Kim*, Hee-Soo Heo, Bong-Jin Lee, Youngki Kwon, Joon Son Chung, “Pushing the limits of raw waveform speaker verification,” in Proc. **Interspeech**.
- [Paper] **Jee-weon Jung***, Hemlata Tak*, Hye-jin Shim, Hee-Soo Heo, Bong-Jin Lee, Soo-Whan Chung, Ha-Jin Yu, Nicholas Evans, Tomi Kinnunen, “SASV 2022: The First Spoofing-Aware Speaker Verification Challenge,” in Proc. **Interspeech**.
- [Paper] Hye-jin Shim, Hemlata Tak, Xuechen Liu, Hee-Soo Heo, **Jee-weon Jung**, Joon Son Chung, Soo-Whan Chung, Ha-Jin Yu, Bong-Jin Lee, Massimiliano Todisco, Héctor Delgado, Kong Aik Lee, Md Sahidullah, Tomi Kinnunen, Nicholas Evans, “Baseline systems for the first spoofing-aware speaker verification challenge: score and embedding fusion,” in Proc. Speaker Odyssey.

- [Paper] Hemlata Tak, Massimiliano Todisco, Xin Wang, **Jee-weon Jung**, Junichi Yamagishi, Nicholas Evans, “Automatic speaker verification spoofing and deepfake detection using wav2vec 2.0 and data augmentation,” in Proc. Speaker Odyssey.
- [Paper] Sung Hwan Mun*, **Jee-weon Jung***, Min Hyun Han, Nam Soo Kim, “Frequency and Multi-Scale Selective Kernel Attention for Speaker Verification,” in Proc. SLT.
- [Preprint] **Jee-weon Jung**, Hee-Soo Heo, Bong-Jin Lee, Jaesong Lee, Hye-jin Hsim, Youngki Kwon, Joon Son Chung, Shinji Watanabe, “Large-scale learning of generalised representations for speaker recognition,” in arXiv.
- [Preprint] **Jee-weon Jung**, Hemlata Tak, Hye-jin Shim, Hee-Soo Heo, Bong-Jin Lee, Soo-Whan Chung, Hong-Goo Kang, Ha-Jin Yu, Nicholas Evans, Tomi Kinnunen, “SASV Challenge 2022: A Spoofing Aware Speaker Verification Challenge Evaluation Plan,” in arXiv.

[2021]: 10 publications, including 5 first author publications

- [Paper] **Jee-weon Jung***, Hee-Soo Heo*, Ha-Jin Yu, Joon Son Chung, “Graph Attention Networks for Speaker Verification,” in Proc. ICASSP.
- [Paper] **Jee-weon Jung**, Hye-jin Shim, Ju-ho Kim, Ha-Jin Yu, “DCASENET: An integrated pre-trained deep neural network for detecting and classifying acoustic scenes and events,” in Proc. ICASSP.
- [Paper] **Jee-weon Jung**, Hee-Soo Heo, Youngki Kwon, Joon Son Chung, Bong-Jin Lee, “Three-class Overlapped Speech Detection using a Convolutional Recurrent Neural Network,” in Proc. Interspeech.
- [Paper] Hye-jin Shim*, **Jee-weon Jung***, Ju-ho Kim, Ha-jin Yu, “Capturing Discriminative Information Using a Deep Architecture in Acoustic Scene Classification,” in Applied Sciences.
- [Paper] Youngki Kwon, **Jee-weon Jung**, Hee-Soo Heo, You Jin Kim, Bong-Jin Lee, Joon Son Chung, “Adapting Speaker Embeddings for Speaker Diarisation,” in Proc. Interspeech.
- [Paper] Hemlata Tak, **Jee-weon Jung**, Jose Patino, Massimiliano Todisco, Nicholas Evans, “Graph Attention Networks for Anti-Spoofing,” in Proc. Interspeech.
- [Paper] Hemlata Tak, **Jee-weon Jung**, Jose Patino, Madhu Kamble, Massimiliano Todisco, Nicholas Evans, “End-to-End Spectro-Temporal Graph Attention Networks for Speaker Verification Anti-Spoofing and Speech Deepfake Detection,” in ASVspoof Workshop (Interspeech satellite).
- [Paper] Ju-ho Kim, Hye-jin Shim, **Jee-weon Jung**, Ha-Jin Yu, “A Supervised Learning Method for Improving the Generalization of Speaker Verification Systems by Learning Metrics from a Mean Teacher,” in Applied Sciences.
- [Tech. Rep] Hee-Soo Heo*, **Jee-weon Jung***, Hye-jin Shim, Bong-Jin Lee, “Clova Submission For The DCASE 2021 Challenge: Acoustic Scene Classification Using Light Architectures and Device Augmentation,” in http://dcase.community/documents/challenge2021/technical_reports/DCASE2021_Heo_30_t1.pdf.
- [Tech. Rep] Hee-Soo Heo, **Jee-weon Jung**, Youngki Kwon, J Kim, Jaesung Huh, Joon Son Chung, Bong-Jin Lee, “NAVER Clova Submission To The Third DIHARD Challenge,” in https://dihardchallenge.github.io/dihard3/system_descriptions/dihard3_system_description_team73.pdf.

[2020]: 11 publications, including 9 first author publications

- [Paper] **Jee-weon Jung**, Hee-Soo Heo, Hye-jin Shim, Ha-Jin Yu, “Knowledge Distillation in Acoustic Scene Classification,” in IEEE Access.
- [Paper] **Jee-weon Jung**, Hye-jin Shim, Ju-ho Kim, Seung-bin Kim, Ha-Jin Yu, “Acoustic Scene Classification using Audio Tagging,” in Proc. Interspeech.
- [Paper] Hye-jin Shim*, **Jee-weon Jung***, Ju-ho Kim, Ha-Jin Yu, “Integrated Replay Spoofing-Aware Text-Independent Speaker Verification,” in Applied Sciences.
- [Paper] Seung-bin Kim*, **Jee-weon Jung***, Hye-jin Shim, Ju-ho Kim, Ha-Jin Yu, “Segment Aggregation for short utterances speaker verification using raw waveforms,” in Proc. Interspeech.
- [Paper] **Jee-weon Jung***, Seung-bin Kim*, Hye-jin Shim, Ju-ho Kim, Ha-Jin Yu, “Improved rawnet with filter-wise rescaling for text-independent speaker verification using raw waveforms,” in Proc. Interspeech.
- [Paper] **Jee-weon Jung***, Ju-ho Kim*, Hye-jin Shim, Seung-bin Kim, Ha-Jin Yu, “Selective Deep Speaker Embedding Enhancement for Speaker Verification,” in Proc. Speaker Odyssey.
- [Paper] Ju-ho Kim*, **Jee-weon Jung***, Hye-jin Shim, Ha-Jin Yu, “Audio Tag Representation Guided Dual Attention Network for Acoustic Scene Classification,” in Proc. DCASE Workshop.
- [Paper] **Jee-weon Jung**, Hye-jin Shim, Ju-ho Kim, Ha-Jin Yu, “ α -feature map scaling for raw waveform speaker verification,” in the Journal of the Acoustical Society of Korea.
- [Paper] Hye-jin Shim, Hee-Soo Heo, **Jee-weon Jung**, Ha-Jin Yu, “Self-supervised pre-training with acoustic configurations for replay spoofing detection,” in Proc. Interspeech.
- [Preprint] **Jee-weon Jung**, Hye-jin Shim, Hee-Soo Heo, Ha-Jin Yu, “A study on the role of subsidiary information in replay attack spoofing detection,” in arXiv.
- [Tech. Rep] Hye-jin Shim, Ju-ho Kim, **Jee-weon Jung**, Ha-jin Yu, “Audio tagging and deep architectures for acoustic scene classification: Uos submission for the DCASE 2020 challenge,” in https://dcase.community/documents/challenge2020/technical_reports/DCASE2020_Shim_120.pdf.

[2019]: 7 publications, including 4 first author publications

- [Paper] **Jee-weon Jung**, Hee-Soo Heo, Ju-ho Kim, Hye-jin Shim, Ha-Jin Yu, “RawNet: Advanced end-to-end deep neural network using raw waveforms for text-independent speaker verification,” in Proc. **Interspeech**.
- [Paper] **Jee-weon Jung***, Hye-jin Shim*, Hee-Soo Heo, Ha-Jin Yu, “Replay attack detection with complementary high-resolution information using end-to-end DNN for the ASVspoof 2019 Challenge,” in Proc. **Interspeech**.
- [Paper] Hee-Soo Heo*, **Jee-weon Jung***, Hye-jin Shim, Ha-Jin Yu, “Acoustic scene classification using teacher-student learning with soft-labels,” in Proc. **Interspeech**.
- [Paper] Hee-Soo Heo, **Jee-weon Jung**, IL-Ho Yang, Sung-Hyun Yoon, Hye-jin Shim, Ha-Jin Yu, “End-to-end losses based on speaker basis vectors and all-speaker hard negative mining for speaker verification,” in Proc. **Interspeech**.
- [Paper] **Jee-weon Jung***, Hee-Soo Heo*, Hye-jin Shim, Ha-Jin Yu, “Distilling the Knowledge of Specialist Deep Neural Networks in Acoustic Scene Classification,” in Proc. DCASE Workshop.
- [Paper] Ju-ho Kim, Hee-Soo Heo, **Jee-weon Jung**, Hye-jin Shim, Seung-Bin Kim, Ha-Jin Yu, “Utilization of age information for speaker verification using multi-task learning deep neural networks,” in the Journal of the Acoustical Society of Korea.
- [Preprint] Hee-Soo Heo, **Jee-weon Jung**, Hye-jin Shim, IL-Ho Yang, Ha-Jin Yu, “Cosine similarity-based adversarial process,” in arXiv.

[2018]: 6 publications, including 5 first author publications

- [Paper] **Jee-weon Jung**, Hee-Soo Heo, IL-ho Yang, Hye-jin Shim, Ha-Jin Yu, “A COMPLETE END-TO-END SPEAKER VERIFICATION SYSTEM USING DEEP NEURAL NETWORKS: FROM RAW SIGNALS TO VERIFICATION RESULT,” in Proc. **ICASSP**.
- [Paper] **Jee-weon Jung**, Hee-Soo Heo, IL-Ho Yang, Hye-Jin Shim, Ha-Jin Yu, “Avoiding Speaker Overfitting in End-to-End DNNs using Raw Waveform for Text-Independent Speaker Verification,” in Proc. **Interspeech**.
- [Paper] **Jee-weon Jung***, Hee-soo Heo*, Hye-jin Shim, Ha-Jin Yu, “Short utterance compensation in speaker verification via cosine-based teacher-student learning of speaker embeddings,” in Proc. IEEE ASRU.
- [Paper] **Jee-weon Jung***, Hee-Soo Heo*, Hye-jin Shim, Ha-Jin Yu, “DNN based multi-level features ensemble for acoustic scene classification,” in Proc. DCASE Workshop.
- [Paper] **Jee-weon Jung**, Hee-Soo Heo, Hye-jin Shim, Ha-Jin Yu, “Multi channel far field speaker verification using teacher student deep neural networks,” in the Journal of the Acoustical Society of Korea.
- [Paper] Hye-jin Shim, **Jee-weon Jung**, Hee-Soo Heo, Sung-Hyun Yoon, Ha-Jin Yu, “Replay spoofing detection system for automatic speaker verification using multi-task learning of noise classes,” in Proc. TAAI.

[2017]: 3 publications, including 2 first author publications

- [Paper] **Jee-weon Jung**, Heesoo Heo, Ilho Yang, Sunghyun Yoon, Hyejin Shim, Hajin Yu, “D-vector based speaker verification system using Raw Waveform CNN,” in Proc. ANIT.
- [Paper] **Jee-weon Jung**, Hee-Soo Heo, IL-Ho Yang, Sung-Hyun Yoon, Hye-Jin Shim, Ha-Jin Yu, “DNN-based audio scene classification for DCASE 2017: dual input features, balancing cost, and stochastic data duplication,” in Proc. DCASE Workshop.
- [Paper] Hee-soo Heo, **Jee-weon Jung**, IL-ho Yang, Sung-hyun Yoon, Ha-jin Yu, “Joint training of expanded end-to-end DNN for text-dependent speaker verification,” in Proc. **Interspeech**.