Jee-weon Jung (updated March 11, 2025)

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Webpage: https://jungjee.com

PROFESSIONAL EXPERIENCE

- **Apple** — September 2024 -
  Senior Research Scientist (full time) — *Supervisor: Stephen Shum*

- **Carnegie Mellon University** — May 2023 - September 2024
  Postdoctoral Research Associate (full time) — *PI: Shinji Watanabe*
  - **Speech processing**: extended area of expertise by having 1st author publications on speech enhancement, speech summarization, and automated audio captioning. Co-authored papers on speech recognition, speech foundation model, multi-modal audio-visual recognition and generation, and spoken language understanding.
  - **Papers**: published 30 peer-reviewed papers

- **Naver Clova, Republic of Korea** — December 2020 - April 2023
  Research Scientist (full time) — *Supervisor: Bong-Jin Lee*
  - **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

EDUCATION

- **PhD, Computer Science and Engineering** — March 2017 - February 2021
  University of Seoul — *Supervisor: Ha-Jin Yu*
  - **Thesis**: Raw waveform speaker verification using an end-to-end deep neural network architecture and feature map scaling
  - **Papers and patents**: published 30 peer-reviewed papers and filed 4 patents

- **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*

HONORS AND AWARDS

- Ranked **1st** place at the DCASE 2024 Challenge task 6 (automated audio captioning, AAC) - 2024
- MERL award: Joint CMU-MERL team wins DCASE2023 Challenge on Automated Audio Captioning - 2023
- 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
- Full-tuition Scholarship from University of Seoul - 2017, 2018, 2019
- Full-tuition National Government Scholarship - 2016
- Samsung Convergence Software Course Scholarship - 2015
- Overseas Study Scholarship from Seoul city government and University of Seoul - 2015
- Half-tuition Scholarship for Academic Excellence - 2014, 2015

SKILLS

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

MEDIA APPEARANCES

[Newspaper]

- Naver, 9 papers accepted for Interspeech 2021!... Global AI research innovation achievements, AI Times, 09/06/2021
- Line-Naver, 14 papers accepted by ICASSP, the most prestigious speech signal processing society, Lineplus Press Release, 02/26/2021

[Blogpost]

- Multi-Agent AI and GPU-Powered Innovation in Sound-to-Text Technology, Nvidia technical blog, 10/22/2024

COMMUNITY ENGAGEMENTS

[Organizing special sessions, challenges, and workshops]

- Spoofing-aware Speaker Verification (SASV) 2022 challenge and a special session at Interspeech 2022 (Founding organizer)
- VoxCeleb Speaker Recognition Challenge and satellite workshops at Interspeech 2022 and 2023
- Automatic Speaker Verification and Spoofing Countermeasures (ASVspoof) 5 Challenge and satellite workshop at Interspeech 2024

[Memberships]

- IEEE SPS (2018 - current)
- ISCA (2018 - current)
- IEEE SLTC Associate Member (2024 - current)
- ACM (2025 - current)

[Chairing sessions]

- IEEE ICASSP 2022
- ISCA Interspeech 2024
- ISCA Interspeech 2023
- ISCA Interspeech 2022
- ISCA Odyssey 2024

[Reviewing conference, workshop, and journal submissions]

- IEEE ICASSP 2019
- IEEE ICASSP 2020
- IEEE ICASSP 2021
- IEEE ICASSP 2022
- IEEE ICASSP 2023
- IEEE ICASSP 2024 – meta-reviewer
- IEEE ICASSP 2025 – meta-reviewer
- IEEE ASRU 2023
- IEEE SLT 2022
- DCASE Workshop 2022
- DCASE Workshop 2024
- ISCA Interspeech 2021
- ISCA Interspeech 2022
- ISCA Interspeech 2023
- ISCA Interspeech 2024
- ISCA Interspeech 2025
- ISCA Odyssey 2024
- IEEE OJSP
- IEEE TASLP
- IEEE SPL
- IEEE Access
- Nature Scientific reports
- Elsevier CSL
- EUSIPCO
- ASVspoof 5 Workshop

[Giving tutorials]

- ISCA Interspeech 2023 [link]

TEACHING AND TALKS

- **Vulnerability of ASV and research on spoofing-robustness – invited talk** August 2024
  University of Buenos Aires *BA, Argentina*

- **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 – 1-day course** 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; 89 publications, including 43 first and 3 corresponding author publications*)

[2025]: **2** publications, including **1** first author publications

- **[Paper] Jee-weon Jung**, Yihan Wu, Xin Wang, Ji-Hoon Kim, Soumi Maiti, Yuta Matsunaga, Hye-jin Shim, Jinchuan Tian, Nicholas Evans, Joon Son Chung, Wangyou Zhang, Seyun Um, Shinnosuke Takamichi, Shinji Watanabe, "SpoofCeleb: Speech Deepfake Detection and SASV In The Wild," in IEEE Open Journal of Signal Processing.

- **[Preprint]** Xin Wang, Héctor Delgado, Hemlata Tak, **Jee-weon Jung**, Hye-jin Shim, Massimiliano Todisco, Ivan Kukanov, Xuechen Liu, Md Sahidullah, Tomi Kinnunen, Nicholas Evans, Kong Aik Lee, Junichi Yamagishi, Myeonghun Jeong, Ge Zhu, Yongyi Zang, You Zhang, Soumi Maiti, Florian Lux, Nicolas Müller, Wangyou Zhang, Chengzhe Sun, Shuwei Hou, Siwei Lyu, Sébastien Le Maguer, Cheng Gong, Hanjie Guo, Liping Chen, Vishwanath Singh, "ASVspoof 5: Design, Collection and Validation of Resources for Spoofing, Deepfake, and Adversarial Attack Detection Using Crowdsourced Speech," in arXiv.

[2024]: **26** publications, including **8** first author publications

- **[Paper]** Hye-jin Shim, **Jee-weon Jung**, Ha-Jin Yu, "Which to select?: Analysis of speaker representation with graph attention networks," in **The Journal of the Acoustical Society of America**.

- **[Paper]** Jaesung Huh, Joon Son Chung, Arsha Nagrani, Andrew Brown, **Jee-weon Jung**, Daniel Garcia-Romero, Andrew Zisserman, "The Vox Celeb Speaker Recognition Challenge: A Retrospective," in **IEEE/ACM Transactions on Audio, Speech, and Language Processing**.

- **[Paper]** 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 Proc. SynData4GenAI (Interspeech 2024 Satellite)).

- **[Paper]** Xin Wang, Hector Delgado, Hemlata Tak, **Jee-weon Jung**, Hye-jin Shim, Massimiliano Todisco, Ivan Kukanov, Xuechen Liu, Md Sahidullah, Tomi Kinnunen, Nicholas Evans, Kong Aik Lee, Junichi Yamagishi, "ASVspoof 5: Crowdsourced Speech Data, Deepfakes, and Adversarial Attacks at Scale," in Proc. ASVspoof 2024 Workshop (Interspeech 2024 Satellite).

- **[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 Hussen 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 Hussen 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**.

- [**paper**] Jiatong Shi, Jinchuan Tian, Yihan Wu, **Jee-weon Jung**, Jia Qi Yip, Yoshiki Masuyama, William Chen, Yuning Wu, Yuxun Tang, Massa Baali, Dareen Alharhi, Dong Zhang, Ruifan Deng, Tejes Srivastava, Haibin Wu, Alexander H Liu, Bhiksha Raj, Qin Jin, Ruihua Song, Shinji Watanabe, "ESPnet-Codec: Comprehensive Training and Evaluation of Neural Codecs for Audio, Music, and Speech," in in Proc. **SLT**.

- [**Preprint**] Zakaria Aldeneh, Takuya Higuchi, **Jee-weon Jung**, Li-Wei Chen, Stephen Shum, Ahmed Hussen Abdelaziz, Shinji Watanabe, Tatiana Likhomanenko, Barry-John Theobald, "Speaker-IPL: Unsupervised Learning of Speaker Characteristics with i-Vector based Pseudo-Labels," in arXiv.

- [**Preprint**] **Jee-weon Jung**, Wangyou Zhang, Soumi Maiti, Yihan Wu, Xin Wang, Ji-Hoon Kim, Yuta Matsunaga, Seyun Um, Jinchuan Tian, Hye-jin Shim, Nicholas Evans, Joon Son Chung, Shinnosuke Takamichi, Shinji Watanabe, "Text-To-Speech Synthesis In The Wild," in arXiv.

- [**Preprint**] Minsu Kim*, **Jee-weon Jung***, Hyeongseop 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.

- [**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**]: **14** 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**.

- **[Paper]** Shih-Lun Wu, Xuankai Chang, Gordon Wichern, **Jee-weon Jung**, François G Germain, Jonathan Le Roux, Shinji Watanabe, "On the Use of Pretrained Deep Audio Encoders for Automated Audio Captioning Tasks," in Proc. FAST-zero.

- **[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]** Yongki 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 Proc. ASVspoof Workshop 2021 (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.

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- [**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**.

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