

Yuan Gao

PhD candidate in Speech and Audio Processing Lab. (SAP)
Supervisor: Tatsuya Kawahara
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Research Interest

- SER:** **Speech emotion recognition.**
- Interplay with personality.
 - Incorporating semantic information.
 - Multistage finetuning.
 - Domain adversarial learning.
- ASR:** **Automatic speech recognition.**
- Emotion specific adapter.
 - Error correction.

Education

- 2022.10 – now** **Ph.D in Department of Intelligence Science and Technology**
Supervisor: *Prof. Tatsuya Kawahara.*
- 2020.10 – 2022.09** **Master in Human Information Science Area**
Supervisor: *Prof. Okada Shogo.*
- 2019.10 – 2021.06** **Master in College of Intelligence and Computing**
Supervisor: *Prof. Longbiao Wang.*

Honors

- 2022.10 – now** **Spring fellowship**, awarded by Japan Science and Technology Agency (JST).
- 2020.10 – 2022.09** **Tianjin University-JAIST Collaborative Educational Program Scholarship**,
awarded by Japan Advanced Institute of Science and Technology (JAIST).

Skills

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| Languages | Chinese Native
English Fluent
Japanese Elementary |
| Coding | Python, Matlab, \LaTeX , ... |

Research Publications

Journal Articles

- 1 Y. Gao, H. Shi, C. Chu, and T. Kawahara, “Multi-attribute learning for multi-level emotion recognition from speech,” *IEEE Transactions on Affective Computing*, (under review).
- 2 Y. Gao, L. Wang, J. Liu, J. Dang, and S. Okada, “Adversarial domain generalized transformer for cross-corpus speech emotion recognition,” *IEEE Transactions on Affective Computing*, 2023.

Conference Proceedings

- 1 Y. Gao, H. Shi, C. Chu, and T. Kawahara, "Enhancing two-stage finetuning for speech emotion recognition using adapters," in *IEEE International Conference on Acoustics, Speech and Signal Processing*, IEEE, 2024.
- 2 Y. Gao, H. Shi, C. Chu, and T. Kawahara, "Speech emotion recognition with multi-level acoustic and semantic information extraction and interaction," in *Proc. Interspeech 2024*, 2024, pp. 1060–1064.
- 3 H. Shi, Y. Gao, Z. Ni, and T. Kawahara, "Serialized speech information guidance with overlapped encoding separation for multi-speaker automatic speech recognition," in *2024 IEEE Spoken Language Technology Workshop (SLT)*, IEEE, 2024, pp. 193–199.
- 4 Y. Gao, C. Chu, and T. Kawahara, "Two-stage Finetuning of Wav2vec 2.0 for Speech Emotion Recognition with ASR and Gender Pretraining," in *Proc. INTERSPEECH 2023*, 2023, pp. 3637–3641.
- 5 J. Tian, D. Hu, X. Shi, *et al.*, "Semi-supervised multimodal emotion recognition with consensus decision-making and label correction," in *Proceedings of the 1st International Workshop on Multimodal and Responsible Affective Computing*, 2023, pp. 67–73.
- 6 Y. Gao, S. Okada, L. Wang, J. Liu, and J. Dang, "Domain-invariant feature learning for cross corpus speech emotion recognition," in *IEEE International Conference on Acoustics, Speech and Signal Processing*, IEEE, 2022, pp. 6427–6431.
- 7 Y. Gao, J. Liu, L. Wang, and J. Dang, "Domain-adversarial autoencoder with attention based feature level fusion for speech emotion recognition," in *IEEE International Conference on Acoustics, Speech and Signal Processing*, IEEE, 2021, pp. 6314–6318.
- 8 Y. Gao, J. Liu, L. Wang, and J. Dang, "Metric learning based feature representation with gated fusion model for speech emotion recognition," in *Proc. INTERSPEECH*, 2021, pp. 4503–4507.
- 9 J. Liu, Z. Liu, L. Wang, Y. Gao, L. Guo, and J. Dang, "Temporal attention convolutional network for speech emotion recognition with latent representation," in *Proc. INTERSPEECH*, 2020, pp. 2337–2341.