

# 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

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| 2022.10 – now     | <b>Ph.D in Department of Intelligence Science and Technology</b><br>Supervisor: <i>Prof. Tatsuya Kawahara.</i> |
| 2020.10 – 2022.09 | <b>Master in Human Information Science Area</b><br>Supervisor: <i>Prof. Okada Shogo.</i>                       |
| 2019.10 – 2021.06 | <b>Master in College of Intelligence and Computing</b><br>Supervisor: <i>Prof. Longbiao Wang.</i>              |

## Working Experience

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| 2024.08 – 2024.09 | <b>Research intern</b> in NTT |
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## Honors

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

## Skills

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| Languages | Chinese Native<br>English Bilingual<br>Japanese Elementary |
| Coding    | Python, Matlab, $\text{\LaTeX}$ , ...                      |

## 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.