Yuan Gao

PhD student in Speech and Audio Processing Lab. (SAP) Supervisor: Tatsuya Kawahara gao.yuan.75x@st.kyoto-u.ac.jp

Research Interest

★ Speech emotion recognition

- Interplay with personality.
- Multistage adaptation.
- Multimodal information interaction.

★ Automatic speech recognition

- Multi-speaker.
- Error correction.

★ Speech LLM

• Speech understanding.

Education

2022.10 – now	Ph.D in Department of Intelligence Science and Technology Kyoto University Supervisor: <i>Prof. Tatsuya Kawahara</i> .
2021.04 - 2022.09	Master in Human Information Science Area JAIST Supervisor: Prof. Okada Shogo.
2019.10 - 2022.06	Master in College of Intelligence and Computing Tianjin University Supervisor: <i>Prof. Longbiao Wang.</i>

Working Experience

2024.08 - 2024.09	Research intern in NTT
	Research: Japanese speech understanding using LLM

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

Languages Chinese Native

English Bilingual Japanese Elementary

Coding Python, Matlab, LaTeX, ...

Research Publications

Journal Articles

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).

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

- Y. Gao, F. Yahui, H. Shi, C. Chu, and T. Kawahara, "Exploring big five personality in speech emotion recognition," in *Proc. INTERSPEECH*, (under review).
- 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.
- 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.
- 4 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.
- 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.
- 6 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.
- 7 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.
- **8** 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.
- 9 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.
- 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.