## 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.
- Emotion specific adaptation.
- Error correction.

### **★** Speech LLM

• Speech understanding.

## **Education**

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

# **Working Experience**

<b>Research intern</b> 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.