Jianan Chen

Ph.D. student
Speech and Audio Processing (SAP) Laboratory,
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RESEARCH INTERESTS

- **Automatic Speech Recognition (ASR)**
    - End-to-End
    - monolingual / multilingual
    - wav2vec 2.0 / XLSR-53

- **Speech-to-Text Translation (S2TT)**
    - Cascaded / End-to-End
    - low-resource
    - BERT / mBart / mBart-50

- **Distillation**
    - Student: speech encoder (wav2vec 2.0 architecture)
    - Teacher: text encoder (bart architecture)

EDUCATION EXPERIENCES

- **Oct. 2023 - Now:** Ph.D. student
  - Graduate School of Informatics, Kyoto University
  - Supervised by Prof. Tatsuya Kawahara

- **Oct. 2021 - Sep. 2023:** Master's degree of Information Science
  - School of Information Science, Japan Advanced Institute of Science and Technology (JAIST)
  - Supervised by Prof. NGUYEN, Minh Le

- **Sep. 2013 - Aug. 2017:** Bachelor's degree
  - School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University

WORKING EXPERIENCES

- **Oct. 2023 - Apr. 2024:** Research Assistant, Sap lab, Kyoto University

- **Oct. 2022 - Sep. 2023:** Teaching Assistant of course I239 Machine Learning, JAIST

- **Sep. 2017 - Nov. 2020:** Junior / Senior Java Developer, Shanghai Huaxin Securities

HONORS

- **Apr. 2024 - Now:** Fellowship of DoGS Next AI Program, awarded by Japan Science and Technology Agency (JST)

- **Oct. 2022 - Sep. 2023:** JAIST Scholarship, awarded by JAIST

PUBLICATIONS

- **Journal Papers:**
    - Kong WeiKun, Xin Liu, Teeradaj Racharak, Guanqun Sun, Jianan Chen, Qiang Ma
- **Conference Papers:**
    - Chen Jianan, Chu Chenhui, Li Sheng, Kawahara Tatsuya (2024, December). Data Selection using Spoken Language Identification for Low-Resource and Zero-Resource Speech Recognition. In 2024 Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC) (pp. 1-6). IEEE.
    - Chen Jianan, Sakti Sakriani (2023, June). An Isotropy Analysis for Self-Supervised Acoustic Unit Embeddings on the Zero Resource Speech Challenge 2021 Framework. In ICASSP 2023-2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) (pp. 1-5). IEEE.

SEMINAR PRESENTATIONS

- Nov. 2024
  - 60-th Kansai Joint Speech Seminar
  - Theme: Data Selection using Spoken Language Identification for Low-Resource Speech Recognition

LANGUAGE SKILLS

- **Natural Languages:** Chinese (native speaker); Japanese (JLPT N1, fluent); English (TOEIC 940, fluent); Korean (not used very much, almost forgot)

- **Programming Languages:** C, C++, Java, Python

HOBBIES

- **Cycling:** road bike, FTP 2.5w/kg, likes touring in mountains and along lakesides (Mt. Hiei, Lake Biwa, and Lake Amawaka)