

Jianan Chen

Ph.D. Student

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RESEARCH INTERESTS

- **Automatic Speech Recognition (ASR):** Low-resource and multilingual ASR; language identification; transfer learning; speech foundation models.
- **Speech Translation (ST):** End-to-end speech-to-text translation; cross-modal alignment; low-resource speech translation.
- **Knowledge Distillation:** Token-to-frame representation distillation; CTC-based alignment between text and speech representations.
- **Efficient Speech Model Adaptation:** Parameter-efficient fine-tuning; LoRA; language-aware mixture-of-experts routing.

EDUCATION

- **Oct. 2023 – Present:** Ph.D. Student, Graduate School of Informatics, Kyoto University, Japan.
Supervisor: Prof. Tatsuya Kawahara.
- **Oct. 2021 – Sep. 2023:** M.S. in Information Science, Japan Advanced Institute of Science and Technology (JAIST), Japan.
Supervisor: Prof. Minh Le Nguyen.
- **Sep. 2013 – Jul. 2017:** B.S., School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University, China.

RESEARCH AND PROFESSIONAL EXPERIENCE

- **Oct. 2026 – Present:** Research Assistant, Speech and Audio Processing Laboratory, Kyoto University, Kyoto, Japan.
- **Aug. 2025 – Nov. 2025:** Research Intern, Institute for Infocomm Research (I²R), Agency for Science, Technology and Research (A*STAR), Singapore.
- **Oct. 2023 – Apr. 2024:** Research Assistant, Speech and Audio Processing Laboratory, Kyoto University, Kyoto, Japan.
- **Oct. 2022 – Sep. 2023:** Teaching Assistant, I239 Machine Learning, JAIST, Japan.
- **Sep. 2017 – Nov. 2020:** Java Developer / Senior Java Developer, Shanghai Huaxin Securities, Shanghai, China.

HONORS AND FELLOWSHIPS

- **Apr. 2024 – Oct. 2026:** DoGS Next AI Program Fellowship, Japan Science and Technology Agency (JST).
- **Oct. 2022 – Sep. 2023:** JAIST Scholarship, Japan Advanced Institute of Science and Technology.

PUBLICATIONS

Journal Papers

- J. Chen, X. Gao, T. Kawahara, and N. F. Chen, “LoASR-Bench: Evaluating Large Speech Language Models on Low-Resource Automatic Speech Recognition Across Language Families,” *IEEE Signal Processing Letters*, 2026.

- K. Weikun, X. Liu, T. Racharak, G. Sun, J. Chen, and Q. Ma, “WeExt: A Framework of Extending Deterministic Knowledge Graph Embedding Models for Embedding Weighted Knowledge Graphs,” *IEEE Access*, vol. 11, pp. 48901–48911, 2023. DOI: [10.1109/ACCESS.2023.3276319](https://doi.org/10.1109/ACCESS.2023.3276319).

Conference Papers

- J. Chen *et al.*, “Language-Aware Routing in Mixtures of Experts for Low-Resource Automatic Speech Recognition,” *Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC)*, 2026.
- J. Chen, C. Chu, S. Li, and T. Kawahara, “Data Selection using Spoken Language Identification for Low-Resource and Zero-Resource Speech Recognition,” *APSIPA ASC*, pp. 1–6, 2024. DOI: [10.1109/APSIPAASC63619.2025.10848811](https://doi.org/10.1109/APSIPAASC63619.2025.10848811).
- J. Chen and S. Sakti, “An Isotropy Analysis for Self-Supervised Acoustic Unit Embeddings on the Zero Resource Speech Challenge 2021 Framework,” *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pp. 1–5, 2023. DOI: [10.1109/ICASSP49357.2023.10095119](https://doi.org/10.1109/ICASSP49357.2023.10095119).

WORKSHOPS AND SEMINAR PRESENTATIONS

- **Sep. 2026:** JST NEXUS Symposium on Multimodal LLM for Enhancing Human Activities, Kyoto University, Japan.
- **Jun. 2026:** 2nd ASEAN–NEXUS Early Career Researchers Conclave, Singapore.
- **Feb. 2026:** 20th ICT Innovation (*Dai-20-kai ICT Innovation*), Kyoto University, Japan.
- **Dec. 2025:** Kyoto University Distinguished Workshop 2025 (*Kyoto Daigaku Takuetsu Workshop 2025*), Kyoto University, Japan.
- **Nov. 2024:** 60th Kansai Joint Speech Seminar, Ryukoku University, Japan.
Presentation: “Data Selection using Spoken Language Identification for Low-Resource Speech Recognition.”

SKILLS

- **Natural Languages:** Mandarin Chinese (native); Japanese (JLPT N1, fluent); English (TOEIC 940, fluent); Korean (basic).
- **Programming Languages:** Python, Java, C, C++.

HOBBIES

- **Cycling:** Road cycling, mountain climbs, and long-distance touring around Lake Biwa and the Kyoto region.