Junkang Yang

Integrated Graduate School of Medicine, Engineering, and Agricultural Sciences, University of Yamanashi
Kofu, Yamanashi, Japan
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RESEARCH INTERESTS

Audio Signal Processing, Bandwidth Extension, Speech Enhancement, Audio Restoration, Deep Learning, ...

EDUCATION

University of Yamanashi, Kofu, Japan   Oct. 2025— Present
Doctoral Course

Chongqing University of Posts and Telecommunications, Chongqing, China   Sep. 2022— Jun. 2025
Master of Science — Information and Communications Engineering   Cumulative GPA: 3.55/4.00
Thesis Title: Research on Robust Speech Super-Resolution Methods under Noisy Environments   Average Score: 86.00/100

Chongqing University of Posts and Telecommunications, Chongqing, China   Sep. 2018 — Jun. 2022
Bachelor of Science — Communications and Information Engineering   Cumulative GPA: 3.58/4.00
Thesis Title: Implementation of Audio Super-Resolution Based on Deep Learning   Average Score: 86.67/100

ACADEMIC EXPERIENCE

Nishizaki-Leow Laboratory,   Kofu, Japan
University of Yamanashi   Oct. 2025 — Present

Intelligent Speech and Audio Research Laboratory,   Chongqing, China
Chongqing University of Posts and Telecommunications   Sep. 2022 — Sep. 2025

Artificial Intelligence Laboratory, vivo Mobile Communication Co., Ltd   Nanjing, China
Research Intern for Audio Algorithm   Dec. 2023 — Apr. 2024

PUBLICATIONS

Journal Papers

- Wei Zhou, Shaoping Zhou, Yikun Cao, **Junkang Yang**, Hongqing Liu, "Unsupervised Anomaly Detection Method for Electrical Equipment Based on Audio Latent Representation and Parallel Attention Mechanism," Applied Sciences, 2025; 15(15): 8474, doi: 10.3390/app15158474.
- **Junkang Yang**, Hongqing Liu, Lu Gan and Xiaorong Jing, "Spectral Network Based on Lattice Convolution and Adversarial Training for Noise-Robust Speech Super-Resolution," The Journal of the Acoustical Society of America, 1 November 2024; 156 (5): 3143–3157, doi: 10.1121/10.0034364.

Conference Papers

- **Junkang Yang**, Hongqing Liu, Liming Shi, Lu Gan, Hiromitsu Nishizaki and Chee Siang Leow, "A Semi-Supervised Acoustic Scene Classification Network Based on Multi-Modal Information Fusion," 2025 Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), Singapore, 2025. (Accepted)
- **Junkang Yang**, Hongqing Liu, Lu Gan, Yi Zhou, Xing Li, Jie Jia and Jinzhuo Yao, "SDNet: Noise-Robust Bandwidth Extension under Flexible Sampling Rates," 2024 Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), Macau, China, 2024, doi: 10.1109/APSIPAASC63619.2025.10848923.
- Jinzhuo Yao, Hongqing Liu, Yi Zhou, Lu Gan and **Junkang Yang**, "Diverse Time-Frequency Attention Neural Network for Acoustic Echo Cancellation," 2024 Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), Macau, China, 2024, doi: 10.1109/APSIPAASC63619.2025.10848821.
- **Junkang Yang**, Hongqing Liu, Xing Li and Jie Jia, "Speech Super Resolution and Noise Suppression System Using a Two-Stage Neural Network," 2024 5th International Seminar on Artificial Intelligence, Networking and Information Technology (AINIT), Nanjing, China, 2024, pp. 1171-1175, doi: 10.1109/AINIT61980.2024.10581580.

AWARDS

3rd place in APSIPA ASC 2025 Challenge Track   Aug. 2025
4th place of URGENT Challenge in Interspeech 2025 Competition Track   Feb. 2025
Global Top 10 of URGENT Challenge in NeurIPS 2024 Competition Track   Oct. 2024

Outstanding Poster Award of AINIT 2024	Apr. 2024
Technical Breakthrough Award of vivo	Feb. 2024
Second-Class Academic Scholarship of CQUPT	Dec. 2022, Nov. 2023
Third-Class Award in the Graduate Group of the Lanqiao Cup (Python)	Apr. 2023
Second-Class Award in the Chongqing Division of the Chinese College Student Mathematical Modeling Competition	Nov. 2020