

Kuang Wang

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Research Interests

Speech Language Models · Expressive Speech Generation · Personalized LLMs · User Simulation · Conversational AI

Education

The Chinese University of Hong Kong, Shenzhen (CUHK-SZ)

Shenzhen, China

Ph.D. in Computer Science Advisor: Prof. Haizhou Li

Sep. 2024 – Present

Zhejiang University (ZJU)

Hangzhou, China

B.Eng. in Biosystems Engineering

Sep. 2020 – Jun. 2024

- **GPA:** 3.96/4.0 (89.98/100) **Rank:** 4/64
- **Honors & Awards:**
 - Outstanding Graduate, Zhejiang University 2024
 - First-Class Scholarship (top 5%), Zhejiang University 2021

Publications

Conference Papers

Wang, K., Li, X., Yang, S., et al.. “Know You First and Be You Better: Modeling Human-Like User Simulators via Implicit Profiles.” *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL)*, 2025 [ACL 2025] 📄 PDF 🔄 Code

Ke, R., Xu, J., Yang, S., Wang, K., Jiang, F., Li, H.. “CATCH: A Controllable Theme Detection Framework with Contextualized Clustering and Hierarchical Generation.” *Proceedings of the AAAI Conference on Artificial Intelligence*, 2026 [AAAI 2026] 📄 PDF

Preprints

Wang, K., Wei, L., Lin, P., Bai, Q., Fang, W., Zhou, L., Jiang, F., Jiang, Z., Huang, J., Wang, Y., Li, H.. “Bridging What the Model Thinks and How It Speaks: Expressive Speech Generation via Self-Aware Intent-Realization Alignment.” *arXiv preprint arXiv:2604.11424*, 2026 [arXiv] 📄 PDF 🔄 Code 📺 Demo

Jiang, F., Wang, K., Li, H.. “Bridging Research and Readers: A Multi-Modal Automated Academic Papers Interpretation System.” *arXiv preprint arXiv:2401.09150*, 2024 [arXiv] 📄 PDF 🔄 Code 📺 Demo

Liu, S., Xu, J., Jiang, F., Wang, K., Zhao, Z., Huang, C., Gu, J., Yin, C., Li, H.. “Discourse-Aware Dual-Track Streaming Response for Low-Latency Spoken Dialogue Systems.” *arXiv preprint arXiv:2602.23266*, 2026 [arXiv] 📄 PDF

Internship Experience

Tencent Multimedia Lab

Shenzhen, China

Research Intern, CSIG · Yuanbao Product Dept. · Speech Language Model Group

Jul. 2025 – Present

- **Objective:** Built large-scale text data infrastructure for continual pre-training of Speech Language Models (SLMs), preserving the language capabilities inherited from the base LLM during speech-text alignment
- **Work:** Designed and implemented a distributed, multi-node parallel data preparation pipeline based on Ray, covering the full workflow from raw corpora to training-ready data, including language filtering, cleaning & normalization, perplexity- and classifier-based quality scoring, domain classification & stratified sampling, and MinHash LSH deduplication
- **Impact:** Processed 100+ TB of raw text; curated corpus used for continual pre-training of a text-based LLM into a text-speech interleaved generation SLM, powering the *Tencent Meeting* voice assistant

Teaching Experience

Teaching Assistant, Reinforcement Learning

Spring – Summer 2025

School of Data Science, The Chinese University of Hong Kong, Shenzhen

Skills

Programming & ML: Python, C, PyTorch, Scikit-learn

Systems & Data: Ray, Distributed Data Processing, Alibaba Cloud MaxCompute, Linux

Tools: Git, L^AT_EX

Languages: Mandarin Chinese (Native), English (Fluent)