


# Qichao Wang

 Google Scholar |  qichaos.wang@hotmail.com

## EDUCATION

- **Nanyang Technological University** August 2025 - Now  
*Doctor of Philosophy of Artificial Intelligence* Singapore
- **Sun Yat-sen University** September 2022 - June 2025  
*Master of Computer Science and Engineering* Guangzhou, China
- **Sun Yat-sen University** September 2018 - June 2022  
*Bachelor of Intelligent Transportation, GPA: 3.9/4.0* Guangzhou, China


## EXPERIENCE

- **Tencent AI Lab**  March 2023 - July 2025  
*Multi-modal LLM research intern* Shenzhen, China
  - Topic: LLM Safety; Speech Language Model;
  - Participated in Hunyuan LLM red-teaming system development;
  - Contributed to duplex speech language model training pipeline and optimization;
  - Implemented algorithms for audio-based agent products.


## PUBLICATIONS (\* indicate equal contribution)

- [C.1] NTPP: Generative Speech Language Modeling for Dual-Channel Spoken Dialogue via Next-Token-Pair Prediction. *ICML 2025*. *120+ Github stars*,  
**Qichao Wang\***, Ziqiao Meng\*, Wenqian Cui, Yifei Zhang, Pengcheng Wu, Bingzhe Wu, Zibin Zheng, Irwin King, Liang Chen, Peilin Zhao.
- [C.2] Parameter-Efficient Fine-Tuning with Discrete Fourier Transform. *ICML 2024*, *Integrated into the official PEFT repository*,  
Ziqi Gao\*, **Qichao Wang\***, Aochuan Chen, Zijing Liu, Bingzhe Wu, Liang Chen, Jia Li.
- [C.3] Recent Advances in Speech Language Models: A Survey. *EMNLP 2025*,  
Wenqian Cui, Dianzhi Yu, Xiaoqi Jiao, Ziqiao Meng, Guangyan Zhang, **Qichao Wang**, Yiwen Guo, Irwin King.
- [J.1] Cooperative Decision-Making Strategies for Emergency Scenario in Mixed Traffic. *IEEE Transaction on Intelligent Transportation Systems*, 2023,  
Zhi Li, **Qichao Wang**, Junbo Wang.

## PROJECTS

- **Seamless agent assistant for community elderly** October 2024 - May 2025  
*Tools: [Audio Language Model, MCP server]*  [News link](#)
  - Developed AI assistant algorithms for "Time Garden" community mutual assistance platform serving elderly residents;
  - Implemented multi-dialect speech recognition and LLM reasoning for Cantonese, Sichuan dialect, and Mandarin;
  - Serving **ten thousand** of elderly users in Shenzhen.

## HONORS AND AWARDS

- **National scholarship** 2020, 2021  
*Ministry of Education of China*
- **China Undergraduate Mathematical Contest in Modeling (CUMCM)** 2020  
*National First Prize, China Society for Industrial and Applied Mathematics(CSIAM)* 

## SKILLS

- **Programming Languages:** Python, Rust.
- **Distributed training of large models:** Deepspeed, Accelerate.