HongYu Liu

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EDUCATION

- **South China Normal University — Engineering (Bachelor)** *09/2022– 06/2026*
  Major: Software Engineering **GPA: 4.02/5**
- **University of Aberdeen — Science (Bachelor)** *09/2022– 06/2026*
  Major: Computer Science **First Class Honours**

INTERNSHIP

- **The Chinese University of Hong Kong, Shenzhen** *Sep. 2025 – Present*
  Research Assistant Shenzhen, China
  – **Proactive Interaction in SLMs:** Proposed an RL-based proactive questioning strategy utilizing future trajectory prediction, effectively boosting model initiative in multi-turn dialogues.
  – Led the design and experimental evaluation of the **VoxPrivacy** (see Research Part).

- **Huawei Shield Lab — Singapore Research Center** *Nov. 2025 – Present*
  Research Intern
  – **SLM Evaluation Benchmark:** Co-developed a comprehensive benchmark for Speech Language Models in collaboration with Shield Lab, establishing rigorous standards across **Safety, Fairness, and Privacy** dimensions.

- **Anfeiweng Technology Co., Ltd.** *17/6/2025 - 19/9/2025*
  Research and Development Department(R&D Department) ShenZhen
  – Collaborated with the team to develop a voice cloning application(Makaw), leading the **algorithmic and model development** for voice conversion, including model training and business-oriented optimization.
  – Assisted in building the model and partial backend components for a video translation product.

- **Ruiju Intelligent Technology Co., Ltd.** *1/7/2024 - 26/8/2024*
  AI Research Group GuangZhou
  – Led the development of a customer purchase intention prediction model, implementing a **multimodal fusion framework** based on the Transformers architecture to predict customer intent from marketing call audio.

RESEARCH & PROJECT

- **VoxPrivacy: A Benchmark for Evaluating Interactional Privacy of Speech Language Models,** ***Under Review at ICLR 2026*** *openreview*
  Introduced VoxPrivacy, the first benchmark evaluating interactional privacy in Speech Language Models across multi-user environments. Demonstrated widespread vulnerabilities in current models and developed a fine-tuning approach that significantly improves privacy-preserving capabilities while maintaining robustness. *7/2025 - 9/2025*
  – **Roles:** Second Author & Benchmark Design & Data Processing & Writing

- **DialogGraph-LLM: Graph-Informed LLMs for End-to-End Audio Dialogue Intent Recognition,** ***ECAI 2025*****.** *paper*
  Developed DialogGraph-LLM, an end-to-end framework for audio dialogue intent recognition. Integrated a novel Multi-Relational Dialogue Graph Network with a LLM backbone to explicitly capture conversational structure from raw audio. Implemented an adaptive semi-supervised fine-tuning strategy to effectively address data scarcity. *01/2025 - 06/2025*
  – **Roles:** First Author & Experimental Design & Paper Writing

- **Multi-segment Multitask Fusion Network for Marketing Audio Classification,** ***ADMA 2025*****.** *paper*
  Proposed a multi-segment multitask fusion network(MSMT-FN) to classify customer attitudes in marketing calls, achieving superior performance against state-of-the-art models on the MarketCalls dataset and public benchmarks, advancing audio intent detection research. *05/2024 - 10/2024*
  – **Roles:** First Author & Experimental Design & Implementation & Paper Writing

- **TradExpert: Multi-Agent Financial Analysis Framework**
  Proposed **TradExpert**, a modular multi-agent framework fusing news and financial factors; engineered a shared memory mechanism to enhance collaborative reasoning via long-term context retention. *Nov. 2025 – Present*
  – **Role:** Co-First Author, Factor Module Design, Experiment.

HONORS

- **Provincial Second Prize, China Undergraduate Mathematical Contest in Modeling**
  Recognized for excellent problem-solving and mathematical modeling abilities. *2024*
- **Honorable Mention(Top 20%), Mathematical Contest in Modeling (MCM)**
  Recognized for strong mathematical modeling, analysis, and problem-solving skills. *2025*
- **Second Prize, MathorCup Mathematical Application Challenge**
  Awarded nationwide for exceptional performance in mathematical modeling. *2024*

ACTIVITY

- **Member of Science and Technology Department of the College Committee** *09/2022 - 08/2023*
- **Class Student Union Representative** *10/2022*
- **Freshman Part-time Assistant** *09/2023 - 06/2024*
- **College basketball team captain** *05/2023 - 11/2023*