LINGHUA ZHANG

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Linghua Zhang
Homepage



Education

Rice University, Houston, USA 2024 – 2026

M.S. in Computer Science *US News Rank: 17*

- **Relevant Coursework:** Computer Systems Architecture (A+), Natural Language Processing (A+), Design & Analysis of Algorithms (A+)

Zhejiang University, Hangzhou, China 2019 – 2023

B.E. in Software Engineering

- Overall GPA: 3.79/4.0, Major GPA: 3.87/4.0
- Outstanding Engineer Scholarship, Third-Class Scholarship
- **Relevant Coursework:** Calculus (4.0), Linear Algebra (4.0), Database (4.0), Operating Systems (4.0), Computer Network (4.0)

Research Interests

- LLM Agent
- Agentic RL
- GUI Agent
- Data Synthesis

Publications

- **Linghua Zhang**, Zhisong Zhang, et al. *"RetailBench: Evaluating Long-Horizon Autonomous Decision-Making and Strategy Stability of LLM Agents in Realistic Retail Environments."* **arXiv:2603.16453**. Under **ARR review**.

Research Experience

Ant International Nov 2025 – Present

Research Intern GUI Agent Data Synthesis

- **GUI Agent Data Synthesis:** Surveyed web trajectory synthesis methods (Explorer, OS-Genesis, Go-Browse). Identified cross-website multi-hop synthesis as a gap. Set up WebArena and initiated experiments on cross-website multi-step data synthesis.

City University of Hong Kong Nov 2025 – Mar 2026

Research Assistant Advisor: Prof. **Zhisong Zhang**

- **Agent Benchmark:** Led *RetailBench*, an LLM agent benchmark for long-horizon retail decision-making. Independently handled problem formulation, environment design, experiments, and paper writing. Published on **arXiv**, under **ARR review**.

Zhejiang University, CAD Lab Dec 2022 – Jun 2023

Undergraduate Thesis Advisor: Dr. **Fan Yan**

- **Financial Text Visualization:** Built a ChatGPT-based financial text analysis and video visualization platform as undergrad thesis. Proposed a logic-relation-driven framework for financial data visualization.

Work Experience

Alibaba Local Services May 2025 – Oct 2025

LLM Algorithm Engineer Intern Agentic LLM Training

- **Agentic LLM Training:** Built an SFT + Agent + RL unified training framework. Conducted full-parameter RL fine-tuning on a 32B model with 64 H20 GPUs, improving stability via tool-response masking, LLM Judge optimization, and static data sampling.
- **Data Construction:** Built 20k–30k multi-turn CoT + tool-use SFT samples and a 2k RL dataset for autonomous tool use and deep analysis in real-world tasks.

Alibaba DingTalk (DingDing) Jul 2023 – Aug 2024

Full-time Software Engineer

- Full-stack development for DingTalk Docs: requirements review, feature iteration, and i18n infrastructure with automated translation pipeline.

Skills

- **Programming:** Proficient in multiple languages. Use Python for LLM data synthesis and training pipelines; experienced with React, CSS, HTML for full-time software development.
- **Model Training:** Extensive experience in data synthesis and model training, including full-parameter RL fine-tuning of 32B-scale agentic models on large GPU clusters.
- **Research:** Independently surveyed GUI Agent data synthesis literature and completed paper writing, demonstrating self-driven research capability.
- **Languages:** English (Fluent, TOEFL: 100), Mandarin (Native)