

XueRong Liu

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Education

ZJU(Zhejiang University)

Hangzhou, China

CANDIDATE FOR B.ENG. IN COMPUTER SCIENCE AND TECHNOLOGY

Sep. 2023 – Present

- GPA: **92/100** (rank **1/281**)
- Core Coursework:
 - **Systems:** Operating Systems (98), Computer Networks (94), Computer Architecture (91)
 - **Math & Algorithms:** Linear Algebra (97), Probability & Statistics (96), Data Structures (93), Theory of Computation (92)
 - **Programming:** C Programming (97), Object-Oriented Programming (95), Database Systems (92)

Honors & Awards

DOMESTIC

2024 **National Scholarship**, (highest honor for undergrads in China)

Zhejiang, China

2025 **National Scholarship**, (highest honor for undergrads in China)

Zhejiang, China

PROVINCIAL

2025 **Gold Medal**, Zhejiang International College Students Innovation Competition (AI Track)

Zhejiang, China

Research Experience

Evolving Personalized GUI Agent with Privacy-preserving GUI Hub

Zhejiang, China

RESEARCH INTERN | ADVISOR: PROF. YING WEI

Aug. 2025 - Present

- Overview: Spearheaded the development of a **Spectral-Aware Privacy-Preserving LoRA Hub** as the **lead author**. Proposed a novel "Profile-then-Route" framework to resolve the conflict between personalization and data privacy in GUI agents. Target submission to **COLM 2026**.
- Entropy-Regularized Routing: Engineered a **Capacity-Aware Routing Algorithm** that decouples user data from model selection. Constructed a **Global Support Set** to profile LoRA capabilities across 16 semantic clusters; implemented a custom **entropy-regularized optimization objective** to compute routing weights, significantly outperforming traditional cosine-similarity retrieval.
- Spectral Consolidation: Pioneered the application of **Iso-CTS** to GUI Agents. Try to consolidate redundant LoRAs by flattening singular value spectra, enabling the Hub to evolve continuously without "feature collapse" or storage explosion.
- Privacy & System: Built the full evaluation pipeline on **FedMABench**. Designed a local-execution architecture where users only upload capacity embeddings—mathematically guaranteeing zero leakage of raw GUI traces or screenshots—while achieving superior generalization on unseen apps compared to baselines like LoRAHub and LEGO.

AI for Story Generation

Zhejiang, China

UNDERGRADUATE RESEARCHER | COLLABORATED WITH PH.D. CANDIDATES

Aug. 2025

- Contribution: Collaborated on a Human-AI Interaction project targeting CHI. Conducted extensive literature review on story generation benchmarks.
- Implementation: Contributed to the codebase for the interactive story generation system, focusing on optimizing the alignment between user intent and LLM-generated narratives.

Professional Experience

Meituan

Beijing, China

AI PRODUCT MANAGER INTERN, SEARCH DEPARTMENT

Jul. 2025 - Sep. 2025

- Designed and launched new AI-powered search features for Meituan's core application, improving user query understanding and result relevance.
- Collaborated with engineering teams to bridge the gap between LLM capabilities and product requirements, ensuring successful deployment in a high-traffic production environment.

Skills

Programming

- Python, C++, SQL, PyTorch.
- Frameworks & Tools: FedMABench, Verl (RLHF framework), LoRA/PEFT, LangChain.
- Research Interests: Large Language Models (LLMs), Privacy-Preserving Machine Learning, Autonomous Agents.