Xuming Huang

xhuang546@wisc.edu
+1 (608) 286-4006
https://mac-huang.github.io/

Aspiring Computer Systems researcher with experience in LLMs and distributed systems. Strong academic record with research experience at UW-Madison and internships at Startups. Focused on pursuing PhD in Computer Systems.

EDUCATION

STANFORD UNIVERSITY — **Stanford, CA**
Summer Session Program — *Jun 2025 – Aug 2025*

UNIVERSITY OF WISCONSIN-MADISON — **Madison, WI**
Computer Sciences & Computer Engineering — *Jan 2025 – Present*
GPA: 4.0/4.0

UNIVERSITY OF SHANGHAI FOR SCIENCE AND TECHNOLOGY — **Shanghai, China**
Computer Science and Technology — *Sep 2021 – Dec 2024*
Core Courses GPA: 4.5/4.5 (Top 1 for 2023 & 2024)

Core Courses: Computer Organization & Systems, Design & Analysis of Algorithms, Operating Systems, Data Structures, Machine Learning, Artificial Intelligence, Java Programming, and related labs.

RESEARCH EXPERIENCE

LLM Kernel Anti-Pattern Detection — **Madison**
Research Assistant — *Jan 2025 – Present*
- Analyzing LLM kernel performance patterns
- Developing detection methods for anti-patterns in LLM kernel operations

Benchmarking LLMs on CS537 Tests — **Madison**
Research Assistant — *Jan 2025 – Present*
- Working on evaluating LLM performance on operating systems concepts
- Developing benchmarking frameworks for systematic LLM assessment

Image Classification Algorithm Analysis — **Shanghai**
Independent Researcher — *Jan 2024 – Jun 2024*
- Benchmarked SVM, KNN, Random Forest vs. CNN (81.3% accuracy)
- Introduced 2-stage inference using ResMacNet; improved accuracy by 13%

INTERNSHIP EXPERIENCE

Apple — **Remote**
NLP Algorithm Intern — *Oct 2024 – Dec 2024*
- Improved App Store personalization via NLP-driven search and recommendation algorithms
- Developed real-time multilingual translation for FaceTime using Transformer models

Cool AI Technology — **Shanghai, China**
Technical R&D, Product Dev & Ops — *Jul 2024 – Sep 2024*
- Developed modern web interface using Next.js and Tailwind CSS for interactive user experience.

- Built FastAPI backend services for LLM integration.
- Deployed to scalable AI-Hub project.

Shanghai Wangbo Sports Consulting **Shanghai, China**
Flag Football Coach & Program Manager *Dec 2021 – Mar 2023*

- Designed training and managed tournaments for youth/adult teams.
- Developed safety-compliant competition rules and served as judge.

PROFESSIONAL SKILLS

Languages: English (Fluent, Duolingo 150/160), Mandarin (Native)
Programming: Python, Java, C, JavaScript
Systems: Operating Systems, Distributed Systems, Computer Architecture
Tools: Git, Linux, VS Code, Docker
Research: LLMs, Transformers
Soft Skills: Research Methodology, Technical Writing, Problem Solving

HONORS & AWARDS

- **Presidential Scholarship, USST** – Top 1 Student (Oct 2024)
- **Merit Scholarships, USST** – Top 3% (Mar 2023, Oct 2022)
- **Stanford Summer Program** – Admitted (2025)

EXTRACURRICULAR ACTIVITIES

USST Flag Football Team **Shanghai, China**
Team Leader & Quarterback *Oct 2021 – Jun 2024*

Rainbow Garden Community Committee **Shanghai, China**
Community Engagement Pioneer *Oct 2021 – Jun 2024*

Shanghai Natural History Museum **Shanghai, China**
Visitor Services & Accessibility Assistant *Dec 2022 – Apr 2023*