

Ruiyang Wang

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PROFESSIONAL SUMMARY Computer Science researcher and visual designer bridging High-Performance Computing with Generative AI. Proven expertise in optimizing scalable inference systems and analyzing human-AI interaction. Dedicated to engineering robust, creator-centric tools that operationalize artistic intent.

EDUCATION

California State Polytechnic University, Pomona <i>B.S.</i>	Expected May 2026
<i>Computer Science, Minor Data Science</i>	
• GPA: 3.76/4.00 (President's Honor List)	
Massachusetts Institute of Technology (MIT) x IDSS <i>Professional Certificate</i>	Feb 2025

- Data Science & Machine Learning: Making Data-driven Decisions (Remote)

RESEARCH EXPERIENCE

Cal Poly Pomona <i>Research Fellow</i>	Sep 2024 – Aug 2025
• Designed a modular deep-learning pipeline for network anomaly detection using the CIC-IDS2017 dataset.	
• Parallelized forward-pass inference using MPI across 32 processes, achieving ~217x speedup vs. serial baseline.	
• Benchmarked runtime scaling and memory usage; ensured output parity with PyTorch reference models.	
Cal Poly Pomona <i>Research Assistant (Engage Program)</i>	Aug 2025 – Present
• Investigating the influence of Generative AI linguistic features on investor decision-making in equity crowdfunding.	
• Analyzing archival Crowdcube data and designing preregistered behavioral experiments to measure credibility.	

SELECTED TECHNICAL PROJECTS

Gen Z Slang Explainer (LLM Fine-Tuning) <i>Project Lead</i>	Oct 2025 – Dec 2025
• Developed an autoregressive model to explain slang by fine-tuning TinyLlama-1.1B using LoRA on 1.78k terms.	
• Demonstrated transfer learning by generating context-aware explanations for unseen variations.	
Energy Consumption Analysis (ITC 2025) <i>Team Lead</i>	Apr 2025
• Directed a team of 5 in analyzing utility energy trends using Random Forest Regressor and EDA.	
• Presented data-driven cost-saving recommendations based on predictive usage patterns.	
Wildfire Alert chatbot (Bronco Hackathon 2025) <i>Team Lead</i>	Apr 2025
• Led 4 to build a wildfire-alert chatbot integrating Gemini API (natural-language queries) and NASA FIRMS API	
MIT Data Science Capstone Projects <i>Student</i>	Nov 2024 – Feb 2025
• Recommendation System: Built collaborative filtering models on 65K+ ratings; optimized for RMSE and precision@k.	
• Conversion Classifier: Optimized ROC-AUC for customer conversion prediction; handled class imbalance via resampling.	

LEADERSHIP & COMMUNITY

Chinese Students and Scholars Association (CSSA) <i>Vice President</i>	Jan 2024 – Present
• Developed a Python-based QR code registration tool, streamlining check-ins and data tracking for 500+ attendees.	
• Managed official media accounts and created bilingual posters, mascots, and accessible infographics.	
• Serve as representative at Chinese Consulate events, coordinating academic workshops and visa guidance.	
LoopBreakers <i>Founder & Team Lead</i>	Apr 2025 – Present
• Founded a cross-disciplinary team for hackathons and IT competitions, fostering a culture of rapid prototyping and technical competition.	

TECHNICAL SKILLS

Languages & Core: Python, Java, C, JavaScript, Kotlin, SQL

AI/ML Frameworks: PyTorch, Scikit-learn, MPI (mpi4py), Pandas, NumPy, Transformers (Hugging Face)

Tools & Cloud: Linux, Git, Docker, Azure, Jupyter, Power BI, Tableau

Design & Creative: UI/UX Design, Visual & Media Design (Digital/Traditional), Data Visualization