TANG MOHAN

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EDUCATION

University of California, Los Angeles (UCLA)

Expected June 2025

June 2023

M.S. in Computer Science

University of California, Los Angeles (UCLA)

B.S. in Computer Science, Magna Cum Laude

B.S. in Mathematics, Cum Laude Dean's Honors List (all quarters)

Overall GPA: 3.932

EXPERIENCE

Beijing FengYun Health Technology Co., Ltd Research Intern

September 2020 - September 2021 Beijing, China

- · Led a project developing and optimizing a super-resolution algorithm for automated cervical cancer diagnosis.
- · Implemented a key algorithm to reduce errors, expanding the original approach based on academic research.
- · Derived formulas from physical theories and proposed a novel technique that enhanced the algorithm's applicability.
- Identified and resolved a key source of error with physical simulations.
- · Outcome: Developed a more robust and stable algorithm, contributing to the company's patent application process.

Post Platform Development (Course: CS 130 - Software Engineering)

March 2023 - June 2023 Los Angeles, CA

Project Member

- Collaborated with a team of 3 to develop a basic post platform using C++ and Object-Oriented Programming.
- · Used Gerrit for version control and code review, fostering team collaboration and code integration.
- Deployed the application on Google Cloud to ensure platform accessibility and continuous uptime.
- · Wrote comprehensive unit and integration test cases to validate functionality and stability of the platform.

Teaching Assistant - CS 35L: Software Construction, UCLA Computer Science Teaching Assistant

September 2023 - December 2023 Los Angeles, CA

- · Organized weekly discussion sessions and office hours to support student learning.
- Taught foundational knowledge of Linux, Python, Emacs, Lisp, JavaScript, Git, and Makefiles.
- Graded assignments and exams.

UCLA PLUS Lab (Advisor: Nanyun Peng)

Research (Co-first Author)

May 2024 - Present Los Angeles, CA

- Conducting research on visual data augmentation using generative models and feature extraction.
- Enhancing multi-modal large model capabilities through data synthesis.

RELEVANT COURSES

• CS 182: Algorithms

• CS 131: Programming Languages

• CS III: Operating Systems

• CS 118: Computer Network Fundamentals

• CS 132: Compiler Construction

• CS 130: Software Engineering

 CS M152A: Digital Design Laboratory

• CS 188: Deep Learning and Computer Vision

• CS 260R: Reinforcement Learning

• CS 261: Generative Models

• Math 182: Algorithms

• Math 131BH: Real Analysis

• Math 151A: Numerical Analysis

• Physics 105A: Analytical Mechan-

• Physics 110A: Electromagnetism

SKILLS

• Programming Languages: C++, Java, Python, Matlab, Mathematica, Lisp, Latex

• Machine Learning: Pytorch

• Others: Linux, Miniconda, Git

AWARDS AND HONORS

2019 William Lowell Putnam Cometition Top 500

February 2020

· Score: 27

PUBLICATIONS

• **Xueqing Wu**, Rui Zheng, Jingzhen Sha, Te-Lin Wu, Hanyu Zhou, Tang Mohan, Kai-Wei Chang, Nanyun Peng, Haoran Huang. "DACO: Towards Application-Driven and Comprehensive Data Analysis via Code Generation", *ICML 2024 Workshop AI4Math Poster*.