

# TANG MOHAN

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## EDUCATION

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### University of California, Los Angeles

June 2023

B.S. in Computer Science

B.S. in Mathematics

Member of Upsilon Pi Epsilon

Dean's Honors List (all quarters)

Overall GPA: 3.932

## EXPERIENCE

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### Beijing FengYun Health Technology Co.,Ltd

September 2020 - September 2021

*Research Intern*

*Beijing*

- Researched on a wide-field, high-resolution microscope, one major obstacle for automated cervical cancer diagnosis.
- Applied Fourier ptychographic microscopy.
- Made existing but unreliable Matlab code work reliably using the theory of Fourier optics.
- Identified and resolved issues by applying theoretical insights and conducting experiments, both with the hardware and software components.
- Implemented algorithms from academic papers to calibrate several crucial parameters.

**UCLA Applied Mathematics Laboratory [Advisor: Prof. Andrea Bertozzi, Prof. Sarah Burnett]** June 2022 - August 2022

*Undergraduate Researcher*

*Los Angeles, CA*

- Studied bi-sized particle laden flow.
- Conducted the experiments and participated in numerical computations.

**UCLA BigML [Advisor: Prof. Baharan Mirzasoleiman]**

March 2023 - June 2023

*Undergraduate Researcher*

*Los Angeles, CA*

- Studied data distillation for contrastive learning.
- Gave mathematical proofs for proposed methods.

## COURSE PROJECTS

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### BruinTrade

Final Project for COM SCI 35L

- Created an online platform where students with extra BruinCard swipes can trade swipes with students who need more swipes for meals.

### Detecting Communities in State Networks

Final Project for Math 168

- Performed community detections on the network of different states of the United States and evaluated how the interactions between different states are geographically oriented.

### Exploring CLIP

Final Project for COM SCI 188

- Proposed an initialization method dealing with the problem that few-shot classifiers could underperform zero-shot classifier.
- Trained a semantic segmentation model using CLIP's features.

## AWARDS AND HONORS

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**2019 William Lowell Putnam Competition Top 500**

February 2020

· Score: 27

## SKILLS

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**Programming Languages**

C++, Java, Python, Matlab, Mathematica, Lisp, Latex

**Machine Learning**

Pytorch

**Tools**

POSIX Shell, Git