

# Jacky Lee

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## Education

### Harvey Mudd College

B.S., JOINT MAJOR IN COMPUTER SCIENCE AND MATHEMATICS | TOTAL GPA 3.93 | MAJOR GPA 3.98

Claremont, CA

Dec 2019

- Deep Learning, Big Data Analytics, Intermediate Probability, Advanced Real Analysis I, Advanced Linear Algebra, Multivariable Calculus, Differential Topology, Advanced Topics in Algorithms

## Research Experience

### UCLA Computational and Applied Mathematics REU

RESEARCH INTERN WORKING ON CRIME MODELING

Los Angeles, CA

Jun 2019 - Aug 2019

- Worked with 4 other student researchers to identify patterns from Los Angeles homicide data
- Developed zonal optical character recognition pipeline for text extraction from old documents
- Performed topic modeling and prediction using a modified latent Dirichlet allocation model
- Presented work at the 2019 Joint ATD+AMPS Annual Workshop

### Harvey Mudd Clinic Program, EDR

PROJECT MANAGER WORKING ON OPTICAL CHARACTER RECOGNITION

Claremont, CA

Sep 2018 - May 2019

- Led 4 other students as the spring project manager to develop image processing and feature extraction software
- Built custom rotation-invariant CNN model to extract and recognize handwritten characters

## Internship Experience

### Facebook

SOFTWARE ENGINEER INTERN WORKING ON VIDEO PROCESSING

Menlo Park, CA

May 2018 - Aug 2018

- Applied AR/VR effects on videos by processing frames sequentially using C++
- Created an intuitive UI using React and PHP/Hack for applying AR/VR effects

### BMC Software

COMPUTER SCIENCE INTERN WORKING ON INNOVATION SUITE

Santa Clara, CA

Dec 2016 - Jan 2017

- Debugged software for businesses to easily create digital management apps with a drag-and-drop interface
- Collaborated with 7 interns to develop 2 applications using Innovation Suite with Java, Maven, and AngularJS

## Teaching Experience

### Tutor, Teaching Assistant, Grader

HARVEY MUDD COLLEGE, POMONA COLLEGE

Claremont, CA

Jan 2017 - Current

- Performed teaching-related duties for math, CS, chemistry, and biology courses
- Instructed students in private and group settings for over 15 courses

## Skills

### Programming Languages

Python, C++, Java, Haskell, PHP

### Other Skills

Git, Bash/Zsh, LaTeX, Jupyter Notebook, Flask, Neovim, Emacs, Tmux

### Languages

Cantonese (bilingual), Mandarin (conversational), Spanish (conversational), Japanese (elementary)

## Extracurriculars

May 2019 **5C Intramural Badminton Doubles Tournament**, 1st Place Team

Claremont, CA

Dec 2018 **Putnam Math Competition**, Top 500

Claremont, CA

Dec 2018 **Caltech Harvey Mudd Math Competition**, Lead Organizer

Claremont, CA

Nov 2018 **International Collegiate Programming Contest, SoCal Regional**, 8th Place Team

Riverside, CA

Apr 2018 **Google Games**, 1st Place Team

Irvine, CA

Apr 2018 **Microsoft College Puzzle Challenge**, 1st Place Team

Los Angeles, CA

Feb 2017 **Facebook Puzzle Hunt**, 1st Place Team

Claremont, CA