

# Jodie Ma

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## EDUCATION

**California Polytechnic State University**, San Luis Obispo, CA

Expected Graduation June 2020

Bachelor of Science in **Computer Science**, GPA: 3.58

### Relevant Coursework

Fundamentals of Computer Science I-III (Python, Data Structures & Algorithms, Java), Computer Organization (Assembly & C), Statistical Methods for Engineers (R), Systems Programming (C)

## COMPUTER SCIENCE EXPERIENCE AND PROJECTS

**NASA Ames Research Center**, Mountain View, CA

*Data Analysis Intern*

Jun 2017 - Jul 2017

- Worked on the spectrum collision functionality of the NIRCam and MIRI instrument for the James Webb Space Telescope using Python
- Assisted another intern in debugging an error calculation program and making it more efficient
- Modified programs to be more user-friendly to the scientific community by organizing astronomical data and converting two exoplanet spectrum programs from C to Python

**Winter Wonderland Game**, San Luis Obispo, CA

December 2016

- Collaborated with a team of four to develop a Christmas-themed game which involved Santa shooting candy canes at evil snowmen
- Programmed the character movements and designed the game intro using Javascript and HTML

**Stanford University School of Medicine**, Stanford, CA

*Bioinformatics Intern*

Jun 2015 - Aug 2015

- Utilized proprietary tools to perform statistical analysis on specific transcription factor binding sites that regulate gene expression
- Processed genetic data and analyzed the histone modifications of hematopoiesis and executed multiple tests to ensure the accuracy of the data

## SKILLS

### Technical

- *Languages*: Python, Java, C, Assembly (LC-3), HTML, CSS, Javascript (processing.js)
- *Other*: Linux Terminal, Vim, Git

### Foreign Languages

- Mandarin Chinese (fluent), French (intermediate)

## OTHER EXPERIENCE

**Women Involved in Software and Hardware**, San Luis Obispo, CA

*Tech Officer*

May 2017 - Present

- Plan technical events such as virtual reality, microcontroller workshop, and quarterly projects

**COD3X Club (Computer Science Club)**, Piedmont Hills High School, San Jose, CA

*Co-President*

Aug 2015 - May 2016

- Organized activities and updated the club website with upcoming coding events in the Bay Area
- Developed proper coding instructions to teach the basics of programming after school

**The Tech Museum of Innovation**, San Jose, CA

*Robotics Volunteer*

Oct 2014 - May 2016

- Interacted with guests by controlling and speaking through a robot
- Educated museum visitors on robotics and technology