

# KEVIN TANG

kevintang129.github.io

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## EDUCATION

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### University of California, Berkeley

Berkeley, CA

#### *B.A. in Computer Science, B.A in Astrophysics*

August 2016 - May 2020

- Relevant Coursework: Structure and Interpretation of Computer Programs, Data Structures, Mechanics, Electricity and Magnetism, Optics, Relativity, Linear Algebra

## EXPERIENCE

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### University of California, Berkeley

Berkeley, CA

#### *Undergraduate Research Fellow*

August 2017 – Present

- Assist with the imaging of supernovae and gamma ray bursts using Nickel and KAIT telescopes at Lick Observatory.
- Learn to remotely operate and observe using the telescopes for observing nights.

### Jet Propulsion Laboratory

Pasadena, CA

#### *Summer Research Intern*

May 2017 – August 2017

- Worked on candidate selection and observation sequence simulations for the WFIRST and StarShade rendezvous mission.
- Implemented new code in MATLAB to communicate astronomical data from star catalog.
- Introduced a new figure of merit to group stars as potential candidates (time to disambiguate star from background noise).

### California Institute of Technology

Pasadena, CA

#### *Research Assistant at Infrared Processing and Analysis Center*

January 2016 – July 2016

- Conducted research using data from the WISE and the 2MASS missions to detect possible brown dwarf candidates orbiting around nearby white dwarfs, namely Van Maanen's Star.
- Utilized IDL, UNIX, and Excel to generate luminosity diagrams of candidates and record results of data.

### Jet Propulsion Laboratory

Pasadena, CA

#### *Lead Scientist for Rosetta Internship*

August 2014 – November 2014

- Simulated landing of Philae probe onto the 67p comet by creating a physical launcher-lander system on Earth with an Arduino controlled camera payload.

## EXTRA-CURRICULARS

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| • Space Technologies at Cal                                  | 2017-Present  |
| • Undergraduate Reader for Introduction to General Astronomy | 2017-Present  |
| • Cal Hacks 4.0  | October 2017  |
| • UC Berkeley Asian American Association Culture Committee   | 2016-Present  |
| • BSA Eagle Scout  | Received 2016 |
| • Volunteer at USC Verdugo Hills Hospital                    | 2015-2016     |

## SKILLS

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Programming Languages: Python, Java, MATLAB, SQL, JavaScript, Lisp

Software/Computer: Excel, LaTeX, Unix, git, SolidWorks, DS9, Mathematica, HTML, CSS

Languages: English, Mandarin, Spanish