

KEVIN TANG

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EDUCATION

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

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

Programming Languages: Python, MATLAB, SQL, HTML, CSS, JavaScript

Software/Computer: Excel, LaTeX, Unix, git, SolidWorks, DS9, Mathematica, Illustrator, Photoshop

Languages: English, Mandarin, Spanish