

KEVIN TANG

ktang.me

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EDUCATION

University of California, Berkeley

Berkeley, CA

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

August 2016 - Present

- Relevant Coursework, CS: Data Structures, Structure and Interpretation of Computer Programs, Linear Algebra, Discrete Math and Probability Theory, Coursera Machine Learning
- Relevant Coursework, Astrophysics: Mechanics, Electromagnetism, Optics, Special Relativity, Quantum Mechanics, Thermodynamics, Multivariable Calculus, Linear Algebra

La Cañada High School

La Cañada Flintridge, CA

- Leadership: Mock Trial-President, JV Volleyball-Captain

August 2012 – May 2016

EXPERIENCE

Space Technologies at Cal (STAC)

Berkeley, CA

Project Engineer

August 2017 – Present

- Currently implementing flight microcontroller code for Blue Origin microgravity experiment.
- Successfully implemented flight system and flew two high altitude balloons designed to expose various ice-nucleating bacteria to high altitude conditions.

University of California, Berkeley

Berkeley, CA

Undergraduate Research Fellow

August 2017 – Present

- Developing a machine learning classification model that will identify supernova candidates.
- Assist with the imaging of supernovae and other events using Lick Observatory telescopes.
- Fit and analyze supernovae spectra in order to look closer at SiII features.

NASA Jet Propulsion Laboratory

Pasadena, CA

Summer Research Intern

May 2017 – August 2017

- Produced new figures of merit from star catalogs to simulate mission paths for the WFIRST-StarShade rendezvous mission to produce an optimized mission observation sequence.

Caltech Infrared Processing and Analysis Center

Pasadena, CA

Research Assistant

January 2016 – July 2016

- Compared data from the WISE and the 2MASS missions to detect possible brown dwarf candidates orbiting around nearby white dwarfs.

EXTRA-CURRICULARS

- EECS Academic Intern June 2018-Present
- Undergraduate Reader for Introduction to General Astronomy August 2017-December 2017
- Cal Hacks 4.0 October 2017
- BSA Eagle Scout Received 2016
- Volunteer at USC Verdugo Hills Hospital 2015-2016
- JPL Rosetta Mission Intern September 2015 – December 2015

SKILLS

Programming Languages: Python, Java, MATLAB, SQL, JavaScript, IDL (can translate)

Software/Computer: Unix, git, HTML, CSS, SolidWorks, AVRdude/Arduino, DS9, Excel

Various Skills: Mandarin speaker, solid surface soldering, 3-D printing