

Jung Lin (Doris) Lee

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2032 Delaware Street, Apt #6, Berkeley , C.A. 94709

EDUCATION

University of California, Berkeley

Sept 2013 - 2017

Intended Major: Physics, Astrophysics

Coursework: Honors Mechanics, Structure & Interpretation of Computer Programs, Multivariable Calculus, Ancient Philosophy, Honors Electromagnetism, Differential Equations and Linear Algebra, Algorithms and Data Structures, Philosophy of Space-Time, Honors Modern Physics, Optical and Infrared Astronomy Lab, Statistical Mechanics

SKILLS

Python	ROOT
Java	Scheme
HTML/PHP	LaTeX
SQL	IDL
Working in UNIX shell	

ACADEMIC INTEREST

Physics	Astronomy	Data Science
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Proficient Language

English	Mandarin	Taiwanese
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EXPERIENCE

Lawrence Berkeley National Lab SDSS-BOSS Group

August 2014 - Present

- Investigating how systematic affect the imaging data quality from the Sloan Digital Sky Survey.
- Identifying possible biases to Baryon Oscillation Spectroscopic Survey's initial target selection to put further constraint on cosmological parameters.

University of Illinois The Laboratory for Cosmological Data Mining

May 2014 - Present

- Google Summer of Code Project. Developing a new, scientifically calibrated version of the RC3 cataloged galaxies that lies within the Sloan Digital Sky Survey footprint
- Building a searchable database that contains of all the RC3 sources with g,r,i band color mosaics. Paper in preparation.

CITRIS Invention Lab

June 2014 - Present

- Working with EECS professor Eric Paulos in developing a pipeline for rapid prototyping PCB-like circuits using flexible polystyrene plastic sheets as substrates.
- Developing a ferro-fluid sketching technique as a new interface for human-computer interaction. Paper in Preparation.

UC Berkeley Trap Ion Quantum Information Research Group

May - August 2014

- Investigating Rabi oscillations of trapped ions in two-level system as a method of quantum computation.
- Python- and LabRAD-based experiment control and data analysis

Simon Fraser University High Energy Physics Research Group

July 2012 - Sept 2013

- Analyze tau decay channel from the ATLAS experiment using PyROOT to recreate mass of the Higgs and Z bosons
- Investigate methods of eliminating background decay processes.

ACTIVITIES

Club Liaison Society of Physics Student

Sept 2014-Present

Volunteer at Berkeley COMPASS Project

Sept 2013-Present

Outreach education and support minorities in the physical sciences.

UC Berkeley Computer Science Scholars Program

2013-2014 school year

Supporting women and ethnic minority in Computer Science studies.

Burnaby South Secondary School iPhone App Developer

2011- June 2013

Volunteer Builder at Free Geek Society

2011- June 2013

Reuse & recycling donated hardware and components
and donating working products to local non-profits and educational institution.

1st Burnaby Southwest Scouts Junior Leader and Event Volunteer

2006 - June 2013

Creator and Co-President of the Burnaby South Physics Club

2012 - June 2013

Promoting interests in science through science demos and explanations.

Creator and Developer of Physics Infinity

2011-2013

Writing article explaining science in laymans terms