

# Teddy. Rendahl

ENGINEER · PYTHON DEVELOPER · PHYSICIST

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## Honors & Awards

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2014 **Dean's Undergraduate Research Award,**

UCSC

## Experience

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### SLAC National Accelerator Laboratory

Menlo Park, CA

SCIENCE AND ENGINEERING ASSOCIATE

Jun. 2015 - Present

- Led teams that automated scientific processes within the lab
- Modernized Python deployment tools including migrating older repositories to GitHub and other Continuous Integration services
- Worked closely with scientists and engineers to deploy hundreds of sensitive scientific instruments in compressed time frames
- Managed Python APIs and GUIs for experimental operations and data observation

### Astrophysics Department at UCSC

Santa Cruz, CA

UNDERGRADUATE RESEARCH, ASTROPHYSICS DEPARTMENT

July 2014 - Aug 2015

- Developed a model that predicted the spectrum emitted by young stellar populations, and the amount this emission would vary over the course a specified period of time
- Optimized code to make efficient use of campus computing clusters
- Wrote an undergraduate thesis and later contributed to a published scientific paper

### Extracurriculars

RELEVANT EXPERIENCE OUTSIDE THE WORKPLACE

- Completed a wide range of online courses related to Computer Science topics such as Algorithms, Data Structure and Machine Learning
- Contributed to open source packages

## Presentations

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### ICALEPCS 2017

Barcelona, Spain

PRESENTER

Oct. 2017

- Discussed Skywalker, a project to automate beam delivery at the Linear Coherent Light Source at SLAC

### EPICS Collaboration Meeting

Oakridge, Tennessee

PRESENTER

Oct. 2016

- Introduced PYDM, a PyQt based display manager with a flexible plugin based backend

## Publications

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### SLUG - Stochastically Lighting Up Galaxies III

UCSC

A SUITE OF TOOLS FOR SIMULATED PHOTOMETRY SPECTROSCOPY STOCHASTIC STELLAR POPULATIONS

Dec. 2013 - Aug. 2014

- Helped write and document a large scientific Python codebase capable of created accurate simulations of young stellar populations.

## Education

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### University of California Santa Cruz

Santa Cruz, CA

BACHELOR OF SCIENCE IN APPLIED PHYSICS

Sept 2010 - June 2014

- Diverse coursework in Electrical Engineering, Computer Science and Physics
- Twice received Dean's Honors