Teddy. **Rendahl**

Physicist · Engineer · Python Developer

1919 Cooley Ave, Palo Alto, C.A 94303

(+1) 530-574-4792 | teddy.rendahl@gmail.com | www.teddyrendahl.github.io | teddyrendahl

Honors & Awards

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

Education

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

Presentations

EPICS Collaboration Meeting *Oakridge, Tennessee*

Presenter *Oct. 2016*

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

ICALEPCS 2017 *Barcelona, Spain*

Presenter *Oct. 2017*

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

Publications

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.

Experience

SLAC National Accelerator Laboratory *Menlo Park, CA*

Science and Engineering Associate *Jun. 2015 - Present*

- Lead teams that automated scientific processes within the lab
- Modernized Python deployment tools including migrating older repositories to GitHub and other Continuous Integration services
- Wrote both low level and high level software to control the delivery of photons to seven different experimental end stations
- Worked closely with scientists and engineers to deploy hundreds of sensitive scientific instruments in compressed time frames
- Managed both programmatic and graphical user interfaces for experimental operations

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

Astrophysics Department at UCSC *Santa Cruz, CA*

Undergraduate Research, Astrophysics Department *July 2014 - Jan 2015*

- Examined evidence of weakly interacting Dark Matter particles detected by NASA's Fermi Large Area Telescope
- Ran large scale simulations of particle decay and gamma-ray radiation using C++