

MEREDITH DURBIN

170 East Sixth Street #505, Claremont, CA 91711
(707) 703-9315 • meredith.durbin@gmail.com

RESEARCH & TEACHING ASSISTANTSHIPS

SUMMER 2013 - PRESENT

Carnegie Observatories

Research Assistant

- Analyzed data from the Spitzer Space Telescope using IRAF & Python
- Calibrated new period-luminosity relations for RR Lyrae variable stars
- Performed 3D mapping of extragalactic objects

SUMMER 2013

Scripps College & W. M. Keck Joint Sciences

Tutor

- Tutored premedical students in introductory physics

SPRING 2013 - PRESENT

Pomona College Dept. of Physics & Astronomy

Teaching Assistant

- Assisted introductory astronomy students with laboratory work and homework
- Assisted premedical students with laboratory work

SUMMER 2012

Pomona College Dept. of Physics & Astronomy

Research Assistant

- Operated 1-meter telescope at Table Mountain Observatory to obtain polarimetry data on blazars
- Analyzed data in IRAF and Python to characterize TMO polarimeter

PRESENTATIONS

The Mid-Infrared RR Lyrae Period-Luminosity Relation

Durbin, Meredith; Scowcroft, Victoria; et al.

Contributed talk at APS CA/NV, Nov. 2013

Performance of the Savart-Plate Polarimeter on the Pomona College 1-Meter Telescope at Table Mountain

Durbin, Meredith; Zook, Alma; et al.

Poster presented at AAS 221, Jan. 2013

EDUCATION

EXPECTED 2014

Pomona College

Bachelor of Arts in PHYSICS

G.P.A. 3.5/4.0

2010

Santa Rosa Junior College

Associate of Sciences in NATURAL SCIENCES

Highest Honors

SKILLS

PROGRAMMING

Basic

Python, HTML, Java

SOFTWARE

Basic

L^AT_EX, Linux, Mathematica, Adobe Illustrator

Advanced

Adobe Photoshop, Microsoft Office, Mac OS X, IRAF

ACTIVITIES

CO-FOUNDER & GRAPHIC DESIGNER, ALPhA Student Organization (“Awesome Ladies in Physics and Astronomy”), 2013-present

CO-FOUNDER, TREASURER, & GRAPHIC DESIGNER, QueerWeekly 5C Student Organization, 2013-present

GRAPHIC DESIGNER & CONTRIBUTING ARTIST, Pomona College PhysPhest, 2013

MENTOR, Claremont Colleges Queer/Questioning/Allied Mentor Program, 2011-2012

MEMBER, Claremont Colleges Ballroom Dance Company, 2011-2012

PERFORMER & GRAPHIC DESIGNER, *The Real Dorms*, student theatre production, 2011

PERFORMER & GRAPHIC DESIGNER, *A Midsummer Night's Dream*, student theatre production, 2011