

WORK EXPERIENCE

Research Assistant at Grinnell College **Oct. 2010 – present**

- Objective: characterize frequency changes in variable stars to investigate mode switching.
- Operate a 24" Cassagrain reflecting telescope to gather and process photometric data, spectra and images.
- Write, test and edit programs in PV-Wave, Pascal, and IDL to support data processing.
- Organize data, update and create uniform logs.

Physics Mentor at Grinnell College **Jan. 2012 – present**

- Develop and host two study sessions weekly and assist professor with in-class problem sets.
- Courses tutored: Modern Physics, Intro to Physics 1 & 2, Mechanics

Research Assistant at the *Complutense University* in Madrid, Spain **Jan. – April 2013**

- Reduced spectra data using COSMOS to assist in identifying the chemical composition of HI regions.

Research Assistant at Northern Arizona University **Summer 2013**

- Objective: identified debris disks around M stars and characterized their inner radii and fractional luminosities.
- Located and processed target data from the IRSA (WISE, Spitzer) and ViseR (UCAC4) databases.
- Wrote, tested and edited programs in IDL to analyze photometric data.
- Wrote a paper and gave a talk to the NAU staff detailing the background, data, methodology and results of my work.
- Will present a poster at the 2014 winter American Astronomical Society (AAS) conference.

Research Assistant at the National Radio Astronomy Observatory **Summer 2012**

- Objective: characterized the star formation rate and stellar mass of extended ultraviolet disks to determine relevance to future growth of the host galaxy.
- Write computer code in IDL to analyze image-based data.
- Wrote a paper and gave a talk to the NRAO staff detailing the background, data, methodology and results of my work.
- Working on first author paper for publication.
- Presented a poster at the 2013 winter AAS conference.

Research Assistant at Grinnell College **Summer 2011**

- Objective: completed a Fourier analysis program to characterize the frequency changes in variable stars.
- Gathered photometric data, spectra and images. Wrote edited programs. Logged activity.

Multi-lingual Floor Interpreter at the Adler Planetarium in Chicago, IL **Mar. 2010 – Aug. 2010**

- Facilitated live shows and conducted tours in English and Spanish.
- Engaged young children and their families in age-appropriate educational experiences.

EDUCATION

Grinnell College, Grinnell, IA

Graduation Spring 2014

- Expected Bachelor of Arts
- Major: Physics
- GPA: 3.865

IES Abroad Madrid, Madrid, Spain

Spring 2013

- Semester intensive language study abroad program.

ACTIVITIES

Social Entrepreneurs of Grinnell

Aug. 2011 – present

Co-Managing Director

Aug. 2013- May 2014

- Supervise project managers of all SEG committees
- Train new project managers
- Present activities of SEG to the Board of Directors
- Manage communications between SEG and other organizations.

Entrepreneurial Loans Project Manager

Fall 2012

- Prepare business for the Entrepreneurial Loans committee
- Conduct committee meetings
- Manage positions within the committee
- Communicate with loan applicants/recipients
- Update SEG Co-Managing director on activities of the committee.

Physics SEPC

Aug. 2012-present

- Student Educational Policy Committee
- Plans social events for physics majors
- Assists with faculty reviews and new faculty hires

Grinnell Astronomy Club

Aug. 2010-present

Grinnell Singers

Aug. 2010-present

Alto Section Leader

- Conduct alto rehearsals
- Prepare music for rehearsals

Drake Library Tutor

Aug. 2011 – Jan. 2012

Grinnell Women in Science

Aug. 2010 – Aug. 2011