

Aaron Robert Weintraub

Curriculum Vitae

Personal Information

Date of Birth: May 3rd, 1993
Permanent Address: 3725 Alpine Drive, Endwell, NY 13760
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Education

Northern Arizona University – Started Fall 2016
Ph.D in Planetary Science and Astronomy
State University of New York, College at Geneseo – Spring 2016
B.A. in Physics, Minor in Geology, Minor in Mathematics
Maine-Endwell Senior High School Endwell, New York – May 2012
Advanced Regents Diploma

Research Experience

REU Student Researcher – Summer 2014

Princeton University

Advisor: Dr. Jason Fleischer, Ph.D.

Mentor: Dr. Alexandre Goy, Ph.D.

I worked in a nonlinear optics imaging lab. Over the summer, I used acoustics to develop a noninvasive technique to measure the internal temperature of poultry in an enclosed space, as an oven. Using Fourier analysis, it was proven that absorption of sound waves changes as the temperature changes.

Assistant Researcher – Winter 2014

Princeton University

Advisor: Dr. Jason Fleischer, Ph.D.

Graduate Student Mentor: Jen-Tang Lu

After spending a summer at Princeton, I was one of the two students of the initial 20 REU participants to be invited back to continue research over the winter session at Princeton University. When I returned, my focus changed to ultrasound acoustics. I attempted to develop a more efficient ultrasound image processing. We experimented with ultrasound instruments to determine the most effective method for imaging.

Student Researcher – Summer 2015

SUNY Geneseo

Advisor: Dr. Aaron Steinhauer, Ph.D.

Working with Dr. Aaron Steinhauer, my summer was split into two parts. The first half of the summer I made photometry corrections on multiple star clusters. This involved data reduction, point spread functions and star removal. We used Unix and python programming to perform this analysis. During the second part of my summer, I debugged and rewrote a program to make this entire analysis automated, greatly improving my programming skills.

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Awards and Honors

Dean's List – Fall 2012, 2013 & 2014

Maintain a GPA of 3.5 or higher.

ΣΠΣ Physics Honor Society – Inducted: Fall 2014

As a member of this honor society, I maintained a 3.5 GPA or higher in at least one of my two first semesters.

ΦΗΣ National Honor Society – Inducted: Fall 2013

This national honors society recognizes the achievement of Physics Majors at Geneseo to balance a high academic standard and involvement in co-curricular activities.

Professional/Work Experience

RA [Residence Assistant] – Fall 2013-Spring 2015

SUNY Geneseo

Advisor: Luke Haumesser, Ed. M.

This job requires me to develop inter-residence hall community as well as maintaining safe and comfortable living situations for students who live in diverse residents halls. I am required to be on duty in the residence hall once a week and on certain weekends. During my duty, I must go on rounds in the building and I am responsible for reporting any suspicious or dangerous activities. I am also responsible for hosting programs intended to educate the residents.

OA [Orientation Advisor] – Summer 2013 – Spring 2014

SUNY Geneseo

Advisor: Kim Harvey, Ed. D

As an Orientation Advisor, I was responsible for informing first year and transfer students attending Geneseo Orientation about the opportunities and experiences Geneseo has to offer. I was required to work closely with 25 other leaders in preparing Geneseo for Summer Orientation. This included attending a four week training program followed by two weeks of orientation sessions.

Official Videographer – Summer 2015

RYSAG Summer Camp [Rochester Young Scholars Academy at Geneseo]

Advisor: Susan Norman

This summer camp gave families the opportunity to send their children to a sleep away camp, who would otherwise not have the means to do so. I filmed, directed and edited four short videos describing the daily routines of both counselors and children. This opportunity exposed me to real-life videographer skills such as fast video turnaround.

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Computer Skills

Basic Skill: MATLAB, ENVI, Unix, Java, finale: Music Notation Software, Adobe Illustrator, LaTeX, JMARS

Intermediate Skill: Mathematica, LabVIEW, Python, davinci [interpreter language], ArcGIS [ArcMap, ArcCatalog, ArcToolbox], Adobe Premiere, Microsoft Excel, Microsoft Word, Microsoft PowerPoint