

## Education & Employment

<b>University of Hawai'i at Mānoa Institute for Astronomy</b> <i>Ph.D. in Astronomy, 3.85/4.0</i>	<b>Honolulu, HI</b> 2018 – Present
<b>Bay Area Environmental Research Institute</b> <i>Research Associate</i>	<b>Moffet Field, CA</b> Summer 2018
<b>University of Washington</b> <i>Bachelor of Science in Physics &amp; Astronomy, 3.47/4.0   Astronomy 3.78/4.0</i> UW Dean's List – SP16, WI17, SP17   Astronomy Honors	<b>Seattle, WA</b> 2014 – 2018

## Research

<b>Interests:</b> Solar & Stellar Physics – Solar Magnetic Fields – Stellar Evolution	
<b>Constraining Angular Momentum Loss Mechanisms in Subgiant Stars</b> <i>Dr. Jennifer van Saders &amp; Dr. Jamie Tayar</i> ◦ Analyzing how different angular momentum loss models fare for stars on the subgiant branch.	<b>Honolulu, HI</b> Autumn 2019 - Present
<b>Electric Current Neutralization in Solar Active Regions</b> <i>Dr. Xudong Sun</i> ◦ Studying the relationship between current distribution and flare production in solar active regions.	<b>Honolulu, HI</b> Winter 2019 - Spring 2020
<b>Lockheed Martin Solar and Astrophysics Lab</b> <i>Dr. Sanjiv Tiwari &amp; Dr. Bart de Pontieu</i> ◦ Studying the evolution of solar coronal plumes with the Interface Region Imaging Spectrograph (IRIS).	<b>Palo Alto, CA</b> Summer 2018
<b>Solar Telescope</b> <i>Astronomy Undergraduate Engineering Group</i> ◦ Developing a solar telescope for use in introductory astronomy courses.	<b>Seattle, WA</b> Autumn 2017 – Spring 2018
<b>University of Alabama in Huntsville/NASA MSFC Heliophysics REU</b> <i>Dr. Sanjiv Tiwari</i> ◦ Studying the magnetic origins of solar coronal plumes.	<b>Huntsville, AL</b> Summer 2017
<b>Cataclysmic Variable Spectroscopy</b> <i>Prof. Paula Szkody</i> ◦ Collected and reduced several Cataclysmic Variable (CV) targets and developed a CV catalog.	<b>Seattle, WA</b> Spring 2017 – Winter 2018
<b>Little-Studied Open Clusters Project</b> <i>Prof. Ana Larson</i> ◦ Cataloged open cluster properties and assisted in development of cluster membership analysis program.	<b>Seattle, WA</b> Spring 2016 – Winter 2017

## Awards and Honors

<b>American Astronomical Society Solar Physics Division Popular Writing Award:</b>	May 2020
<b>NSF Graduate Research Fellowship Program:</b> Honorable Mention	April 2020
<b>NSF Graduate Research Fellowship Program:</b> Honorable Mention	April 2018
<b>American Geophysical Union (AGU) Fall Meeting Outstanding Student Paper Award:</b>	December 2017
<b>UW Astronomy Baer Undergraduate Prize for Excellence in Research:</b>	Spring 2017

## Teaching

<b>Astronomy Course Teaching Assistant:</b> TA for UH undergraduate astronomy courses	Autumn 2018 - Spring 2019
<b>Astronomy Course Grader:</b> Grader for undergraduate astronomy core series	Autumn 2017 - Spring 2018
<b>Introductory Physics Tutorial Instructor:</b> Tutorial TA for UW introductory physics series	Winter 2017 – Spring 2018

## Committees

<b>UH Institute for Astronomy Graduate Admissions Committee:</b> Graduate Student Representative	Spring 2019
--	-------------

## Volunteer Service and Outreach

<b>Scientist:</b> Skype a Scientist	Autumn 2019 - Present
<b>Presenter:</b> Stars Above Hawaii Stargazing Tours	Spring 2019 - Present
<b>Author:</b> Astrobites, <a href="https://astrobites.org/author/eavallone">astrobites.org/author/eavallone</a>	Winter 2019 – Present
<b>Volunteer:</b> UH Institute for Astronomy Outreach	Autumn 2018 - Present
<b>Pen-Pal:</b> Letters to a Pre-Scientist	Autumn 2018 – Present
<b>Secretary, President:</b> UW League of Astronomers	Spring 2016 – Spring 2018

**Volunteer:** Theodor Jacobsen Observatory  
**Presenter:** UW Planetarium, UW Mobile Planetarium

*Spring 2016 – Spring 2018*  
*Spring 2016 – Spring 2018*

## Mentorship

**Maunakea Scholars Program:** Graduate Student Mentor *Autumn 2018 – Present*  
**Research Mentor:** Co-advising high school student with Dr. Xudong Sun *Spring 2019 – Present*

## Technical Skills

**Languages:** Python | IDL | Mathematica | LaTeX | Bash | UNIX | R  
**Software:** Wordpress | Microsoft Office  
**Telescope Operations:** Observed 4+ nights at APO 3.5m, MRO 0.75m, DAO 1.83m

## Workshops

**Preparing for DKIST: Image processing and Time Series:** Northridge, CA *Winter 2020*  
**Preparing for DKIST: An Introduction to Ground Based Data:** Boulder, CO *Summer 2019*  
**UCAR CPAESS Heliophysics Summer School:** Boulder, CO *Summer 2019*

## Presentations

**American Astronomical Society Winter Meeting:** Poster *January 2020*  
◦ Astrobites: Blogging Astronomy Research and Beyond  
**American Astronomical Society Winter Meeting:** Poster *January 2020*  
◦ Electric Current Neutralization in Solar Active Regions and its Relation to Magnetic Shear and Eruptive Activity  
**American Geophysical Union Fall Meeting:** Poster *December 2019*  
◦ Electric Current Neutralization in Solar Active Regions and its Relation to Magnetic Shear and Eruptive Activity  
**SHINE Conference:** Poster *August 2019*  
◦ Electric Current Neutralization in Solar Active Regions and its Relation to Magnetic Shear and Eruptive Activity  
**Lockheed Martin Solar and Astrophysics Lab:** Seminar *July 2018*  
◦ The Magnetic Origins and Spectroscopic Properties of Coronal Plumes  
**UW Undergraduate Research Symposium:** Poster *May 2018*  
◦ Adapting an Amateur Solar Telescope for use as a Lecture, Research, and Public Outreach Tool  
**Stanford University Solar Observatories Group:** Seminar *March 2018*  
◦ Critical Magnetic Field Strengths for Unipolar Solar Coronal Plumes in Quiet Regions and Coronal Holes?  
**American Geophysical Union Fall Meeting:** Poster *December 2017*  
◦ Critical Magnetic Field Strengths for Unipolar Solar Coronal Plumes in Quiet Regions and Coronal Holes?  
**UW Undergraduate Research Symposium:** Poster *May 2017*  
◦ MW Open Cluster Metallicities + Membership Assignment  
**Theodor Jacobsen Observatory:** Public Outreach Talk | The Sun: Our Home Star *May 2017*  
**UW Planetarium:** Universe Tours *Spring 2016 – Spring 2018*

## Publications

**Electric Current Neutralization in Solar Active Regions and Its Relation to Eruptive Activity:** *2020*  
◦ Ellis A. Avallone and Xudong Sun 2020, ApJ, 893, 123  
**Critical magnetic field strengths for unipolar solar coronal plumes in quiet regions and coronal holes?:** *2018*  
◦ Avallone, E. A., Tiwari, S. K., Panesar, N. K., Moore, R. L., Winebarger, A. 2018, ApJ, 861, 111

*References available upon request.*