CHARITY WOODRUM

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EDUCATION

University of ArizonaTucson, AZPh. D. in Astronomy & AstrophysicsMay 2023 (expected)M. S. in Astronomy & AstrophysicsMay 2020 (expected)

University of Oregon
B. S. in Physics
Departmental Honors

Eugene, OR
June 2018

Umpqua Community CollegeRoseburg, ORA. A. S. in Nursing (RN)June 2009

SCIENTIFIC WORK EXPERIENCE

University of Arizona Tucson, AZ **Ph. D. Graduate Research Assistant**08/2018-present

University of Oregon Eugene, OR Fishergroup Lead Student Researcher 03/2015-06/2018

Pine Mountain Observatory Bend, OR Lead Student Researcher 05/2014-06/2018

Marshall Space Flight Center Huntsville, AL NASA Research Intern 06/2016-08/2018

University of Oregon Eugene, OR
Physics Demonstraton Room Assistant 04/2015-06/2016

REFEREED PUBLICATIONS

1. The Evolution of Bulge-dominated Field Galaxies from $z \approx 1$ to the Present Woodrum, C., Jørgensen, I., Fisher, R.S., et al., 2017, ApJ, 847, 20

GRANTS AND AWARDS

- · 2018: National Science Foundation Graduate Research Fellowship
- \cdot 2018: University of Oregon, Department of Physics Weiser Undergraduate Research Award
- · 2017: Osher Scholar
- · 2016: NASA Undergraduate Research Fellowship
- · 2016: University of Oregon, Department of Physics Weiser Undergraduate Research Award

TEACHING EXPERIENCE

- · Undergraduate Teaching Assistant PHYS 201, 202, 203: Introduction to Physics, Summer 2015, University of Oregon
- · Science Educator Astronomy for Preschoolers, Summer 2015, Moss Street Children's Center

INVITED PRESENTATIONS

- My STEM Story: From Canyonville, OR to NASA
 Keynote Speaker for the Women in Science and Engineering Symposium, Churchill High School, Eugene,
 OR, March 2018
- · My Research Story: From Pine Mountain to Hubble
 Pine Mountain Observatory Research Exposition, Portland, OR, December 2017
- Nature vs. Nurture: What Drives Galaxy Evolution?
 Oregon NASA Space Grant Consortium research symposium, Oregon State University, Corvallis, OR, November 2017
- · Nature vs. Nurture: What Drives Galaxy Evolution?
 Undergraduate Research Symposium, University of Oregon, Eugene, OR, May 2017
- · Searching for the Electromagnetic Counterpart to Gravitational Wave Events
 Women in Science and Engineering Club, Churchill High School, December 2016
- · Searching for the Electromagnetic Counterpart to Gravitational Wave Events Society of Physics Students meeting, University of Oregon, Eugene, OR, November 2016
- · Searching for the Electromagnetic Counterpart to Gravitational Wave Events
 Oregon NASA Space Grant Consortium research symposium, Oregon State University, Corvallis, OR, November 2016
- · Searching for the Electromagnetic Counterpart to Gravitational Wave Events
 X-ray Astronomy Group, NASA Marshall Space Flight Center Astrophysics Office, Huntsville, Alabama,
 August 2016
- · Optimizing the Search Algorithm for the Fermi GBM Data Fermi GBM Group, NASA Marshall Space Flight Center Astrophysics Office, Huntsville, Alabama, July 2016
- · Life in Low Density Environments Field Galaxies from Half the Age of the Universe to the Present Society of Physics Students meeting, University of Oregon, Eugene, OR, May 2016

POSTER PRESENTATIONS

- · Evolution in Solitude Field Galaxies from Half the Age of the Universe to the Present Oregon NASA Space Grant Consortium Student Symposium, Oregon State University, Corvallis, OR, November 2017
- · Evolution in Solitude Field Galaxies from Half the Age of the Universe to the Present American Astronomical Society's 229th meeting, Grapevine, TX, January 2017
- · Searching for the Electromagnetic Counterpart to Gravitational Wave Events
 Oregon NASA Space Grant Consortium Student Symposium, Oregon State University, Corvallis, OR, November 2016
- · Searching for the Electromagnetic Counterpart to Gravitational Wave Events
 Intern Poster Presentation, NASA's Marshall Space Flight Center, Huntsville, AL, August 2016
- \cdot Life in Low Density Environments Field Galaxies from z=1.0 to the Present Undergraduate Research Poster Session, University of Oregon, Eugene, OR, October 2015
- · Life in Low Density Environments Field Galaxies from z=1.0 to the Present International Astronomical Union XXIX, Honolulu, HI, August 2015

PROFESSIONAL AFFILIATIONS

- · 2016-present: American Astronomical Society
- · 2016-present: American Physical Society

PRESS

- · Stellar Student: Charity Woodrum rides a NASA internship to the forefront of astrophysics by Jim Murez, cover of Cascade Magazine, Fall 2016
- · Cosmic Connections by Matt Cooper, Cascade Magazine, Fall 2016
- · Wow at Pine Mountain: UO students zoom in on a dying star Around the O, June 2016
- \cdot $Star\ pupil$ by Tricia Jones, Douglas County Partners for Student Success, January 2017
- \cdot A dozen UO students receive prestigious NSF graduate research fellowships Around the O, May 2018

TECHNICAL PROFICIENCIES

- · Programming languages (Python, R)
- · Specialized software (LaTeX, AASTex, IRAF)
- · Telescope operation (manual and computerized)
- \cdot Science outreach to all audiences: Public, K-12, undergraduate, and scientific