

Charlotte M. Wood | CV

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Education

University of Notre Dame

Ph.D. Physics

Advisor: Dr. Peter Garnavich

Notre Dame, IN

2016-present

Hofstra University

B.S. Physics, Minor in Astronomy

High Departmental Honors – Advisor: Dr. Stephen S. Lawrence

Magna Cum Laude

Honors College Graduate with Distinction

Hempstead, NY

2012-2016

Publications

- **"Benchmarking Substellar Evolutionary Models Using New Age Estimates for HD 4747 B and HD 19467 B"**
Accepted to The Astrophysical Journal, January 2019
- **"The TRENDS High-Contrast Imaging Survey. VIII. Compendium of Benchmark Objects"**
In preparation, intended for The Astrophysical Journal (co-author)
- **"High-Time-Resolution Photometry of AR Scorpii: Confirmation of the White Dwarf's Spin-Down"**
The Astronomical Journal, July 2018 (co-author)

Talks and Presentations

- **"The Slowly Fading Light Echo Around Type Ia Supernova 2009ig"**
- Poster for the 233rd Meeting of the American Astronomical Society, Seattle, WA, January 2019
- **"Benchmarking Substellar Evolutionary Models Using New Age Estimates for HD 4747 B and HD 19467 B"**
- Oral Presentation for the College of Science and Engineering Joint Annual Meeting, University of Notre Dame, December 2018
- Poster for the AWIS Women in Science Regional Conference, University of Notre Dame, October 2018
- **"Precise Ages for the Benchmark Brown Dwarfs HD 19467 B and HD 4747 B"**
Poster for the 231st Meeting of the American Astronomical Society, Washington D.C., January 2018

Other Research Experience

Observing Run at the Large Binocular Telescope

University of Notre Dame

Tucson, AZ

Fall 2018

Four and a half nights of observing using MODS on the LBT. Obtained calibration data and would have run through OSURC queue to obtain data on many different projects (bad weather).

Awards

Arthur J. Schmitt Leadership Fellowship

University of Notre Dame

Spring 2016

Awarded to the top 15 students in the Colleges of Science and Engineering each year.

Teaching Experience

Physics Teaching Practicum

University of Notre Dame

Notre Dame, IN

August 2018-present

Covered three lectures (Physics of Astrophysics, Sept. 2018; Introduction to Astrophysics (2), Nov. 2018) under observation and created a teaching portfolio.

Teaching Assistant for Physics Classes

University of Notre Dame

Notre Dame, IN

August 2016-present

Responsibilities include setting up lab equipment, grading, helping proctor exams, and organizing help sessions for students. Classes: Descriptive Astronomy (undergraduate), Lasers & Modern Optics (undergraduate), Physics of Astrophysics (graduate).

Skills

Computer Languages/Programs: Python, IRAF/PyRAF, \LaTeX , Mathematica, MATLAB, IDL, Git.

Spoken Languages: English (native), Spanish (limited working proficiency), Italian (elementary).

Activities & Outreach

Graduate Physics Society Executive Board

University of Notre Dame

Notre Dame, IN

Summer 2018 - Present

Serving as the astronomy group representative on the executive board for the physics graduate student organization. E-board acts as a bridge between the graduate students and the department and helps organize all GPS events.

Science Alive

University of Notre Dame

Notre Dame, IN

February 2019

Helped with interactive demonstrations that teach physics & astronomy to children in the local community.

Summertime Stargazing

University of Notre Dame

Notre Dame, IN

July/August 2018

Assisted with a large public observing event, manned a telescope and helped answer the public's questions about what they were seeing.

Expanding Your Horizons

University of Notre Dame

Notre Dame, IN

April 2018

Ran a workshop teaching middle school girls about exoplanets and helped them craft their own paper-mache exoplanets.

Professional Organizations

o American Astronomical Society

AAS is the major organization of professional astronomers in North America. Their mission is to enhance and share humanity's scientific understanding of the universe.

References

- **Dr. Peter Garnavich**
Professor of Physics, Department Chair
University of Notre Dame
Notre Dame, IN
- **Dr. Stephen S. Lawrence**
Professor of Physics and Astronomy
Hofstra University
Hempstead, NY
- **Dr. Mukremin Kilic**
Assistant Professor of Physics and Astronomy
University of Oklahoma
Norman, OK
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