

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"**
Submitted to The Astrophysical Journal, September 2018
- **"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

- **"Benchmarking Substellar Evolutionary Models Using New Age Estimates for HD 4747 B and HD 19467 B"**
- 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

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

Notre Dame, IN

August 2018-present

Lead Teaching Assistant for Descriptive Astronomy

University of Notre Dame

Responsibilities include running the observatory, organizing help sessions, and grading for the non-science majors introductory astronomy class.

Notre Dame, IN

August 2017-present

Teaching Assistant for Physics of Astrophysics

University of Notre Dame

Responsibilities include grading and assisting with homework assignments and running an observing session for the introductory graduate student astrophysics class.

Notre Dame, IN

August 2018 - December 2018

Teaching Assistant for Lasers and Modern Optics

University of Notre Dame

Responsibilities include setting up and testing labs, grading lab reports, and proctoring an exam for the junior/senior undergraduate optics class/lab.

Notre Dame, IN

January 2017-May 2017

Teaching Assistant for Descriptive Astronomy

University of Notre Dame

Responsibilities include running the observatory, assisting with proctoring exams, and grading for the non-science majors introductory astronomy class.

Notre Dame, IN

August 2016-December 2016

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

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, including the annual conference.

Notre Dame, IN

Summer 2018 - Present

Summertime Stargazing

University of Notre Dame

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

Notre Dame, IN

July/August 2018

Observing for Physics of Atomic Nuclei Students

University of Notre Dame

Held an observing night for high school students attending the Physics of Atomic Nuclei camp.

Notre Dame, IN

June 2018

Expanding Your Horizons

University of Notre Dame

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

Notre Dame, IN

April 2018

Professional Organizations

- **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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