

Curriculum Vitae, Caitlin C. Doughty, 2018

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Education

- Ph.D. (Expected 2020) Astronomy, New Mexico State University, Las Cruces, NM, 2015-Present
Advisor: Dr. Kristian Finlator
- B. S. Physics, Astronomy, University of Washington, Seattle, WA 2010-2014
Arts & Sciences Dean's List - Autumn 2010, Winter 2012, Summer 2012, Summer 2013

Research Experience

New Mexico State University, Astronomy Department, 08/2015 - Present
Analyzing UVB models using metal absorbers in GADGET-3, modifying code to simulate varying supernova heating and mass-loading factor, using MUSIC to run zoom simulations to examine effects of molecular cloud inclusion on C II and C IV. Analyzing O I evolution during the epoch of reionization. Advisor: Dr. Kristian Finlator

University of Washington, Astronomy Department, 08/2013 - 08/2015
Prepared ARCTIC to replace SPICAM at APO. Previously, observed candidate symbiotic stars, processed and analyzed data to measure photometric variability. ARCTIC Supervisor: Joe Huehnerhoff. Advisor for symbiotic star research: Dr. Julie Lutz.

Grants and Awards

- New Mexico Space Grant Graduate Research Fellowship, 2018**
- NMSU Merit-Based Enhancement Award, 2018**

Programming Experience: **Python, C, MPI, Latex, Java**

Teaching Experience:

- Lab TA - Introduction to Astronomy**
New Mexico State University, Las Cruces, NM (in-person: Fall 2015; Spring 2016, online: Fall 2017; Spring 2018)
- Lecture TA - Revolutionary Ideas in Science**
New Mexico State University, Las Cruces, NM (Fall 2016, Spring 2017)

Volunteer Experience/Outreach:

- Astronomy Outreach Events**
Las Cruces, NM
- Girls Who Code Instructor**
Anthony High School, Anthony, TX, 08/2017 - Present
- Astrobites Contributing Author**
astrobites.org, 01/2018 - Present

Relevant Conferences/Meetings/Talks

- Walking the Line 2018: Simulating Line Emission from Galaxies**
Arizona State University, Phoenix, AZ (March 2018)
- SDSC Summer Institute**
San Diego Supercomputing Center, University of California, San Diego, CA (July 2017)
- From Wall to Web (IGM 2016)**
Max Planck Institute for Astronomy, Berlin, Germany (July 2016)