Victoria Bonidie

Curriculum Vitae

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Education

Fall 2020 – Present **University of Pittsburgh**, *Ph.D. Graduate Student in Physics and Astronomy*, Pittsburgh, PA.

Fall 2016– Winter, 2019 **Franklin & Marshall College**, *B.A. in Astrophysics, Applied Mathematics Minor*, Lancaster, PA.
Magna Cum Laude

Research Experience

Fall 2019–Present **Combining TESS and APOGEE to Detect and Quantify the Circumbinary Planet Population**.
RESEARCH ADVISOR: Dr. Carles Badenes, University of Pittsburgh
Detection and statistics of transiting circumbinary planets (CBPs) by combining the data from the all-sky time-domain survey, TESS, in conjunction with the multi-epoch high-resolution spectroscopy from the Apache Point Observatory Galactic Evolution Experiment (APOGEE).

Summer 2019 **Stellar Multiplicity in the Milky Way**.
RESEARCH ADVISOR: Dr. Carles Badenes, University of Pittsburgh
Studied the stellar multiplicity in the Milky Way with data from APOGEE Data Release 14.

Fall 2018–Spring 2019 **Quantifying the Chemical Composition of Planetary Hosts**.
RESEARCH ADVISOR: Dr. Michael Pagano, Franklin & Marshall College
Measured equivalent widths of stellar spectra to determine the metallicity and temperature of stars detected by Kepler.

Fall 2018–Fall 2018 **Analyzing the Pulse Profiles of Pulsar Stars**.
RESEARCH ADVISOR: Dr. Robert Ferdman, University of East Anglia
Developed code to fit and analyze pulse profiles from confirmed pulsars detected by the Arecibo and the Parkes Radio Telescopes. Summer Internship 2015

Fall 2017– Spring 2019 **Pulsar Detection and Timing Observations**.
RESEARCH ADVISOR: Dr. Fronefield Crawford III, Franklin & Marshall College
Conducted Arecibo pulsar survey and timing observations for the North American Nanohertz Observatory for Gravitational Waves NANOGrav (NANOGrav) collaboration. Analyzed data taken from the Parkes Radio telescope in Australia in search of millisecond pulsars. Discovered new pulsar in the Large Magellanic Cloud.

Awards

2020 **Whittington Fellowship (University of Pittsburgh)**.
Awarded to women starting their doctoral studies in disciplines where women have been traditionally underrepresented and who demonstrate exceptional ability and outstanding research promise.

2019 **Michael J. Mumma Award (Franklin and Marshall College)**.
Awarded to a graduating senior to recognize outstanding scholastic achievement, citizenship community leadership, and superior potential for future contributions for physics and/or astronomy.

2019 **John Kershner Scholar (Franklin and Marshall College)**.
Awarded to a select group of students for proficiency in the Department of Physics and Astronomy.

2018 **Marshall Fellowship (Franklin and Marshall College)**.
Awarded to a select group of sophomores who have displayed academic excellence and creativity. $4000 of funding is granted for an academic enrichment and/or community service project.

2017 **Michael Albert Lewis Memorial Prize in Physics (Franklin and Marshall College)**.
Awarded to a first year student in acknowledgment of excellence in introductory physics courses as chosen by the physics and astronomy faculty.

Teaching Experience

Spring 2022 **PHYS 175: Introductory Physics 2**, *Teaching Assistant*, University of Pittsburgh.

Fall 2021 **ASTRON 0089: Stars, Galaxies, and Cosmos**, *Teaching Assistant*, University of Pittsburgh.

Publications

Multiplicity Statistics of Stars in the Sagittarius Dwarf Spheroidal Galaxy – Comparison to the Milky Way.
Victoria Bonidie, Travis Court, Christine Mazzola Daher, Catherine E. Fielder, Carles Badenes, Jeffrey Newman,Maxwell Moe, Kaitlin M. Kratter, Matthew G. Walker, Steven R. Majewski, Christian R. Hayes, Sten Hasselquist, Keivan Stassun, Marina Kounkel, Don Dixon, Guy S. Stringfellow, Joleen K. Carlberg, Borja Anguiano, Nathan De Lee, and Nicholas W. Troup
Submitted to ApJ Letters
arXiv:2204.09750

A Parkes "Murriyang" Search for Pulsars and Fast Transients in the Large Magellanic Cloud.
Shinnosuke Hisano, Fronefield Crawford, **Victoria Bonidie**, Md F. Alam, Keitaro Takahashi, Duncan R. Lorimer, Josh P. Ridley, Maura M. McLaughlin, and Benetge B. P. Perera
The Astrophysical Journal, Volume 928, Issue 2, id.161, 11 pp.