Victoria Bonidie | Curriculum Vitae

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Education

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

M.S. in Physics
University of Pittsburgh, Pittsburgh, PA *Fall 2020 – Fall 2021*

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

Research Experience

Searching for Planets Around Red Clump Stars *Fall 2022–Present*
Research advisor: Dr. Carles Badenes, University of Pittsburgh
Detection and statistics of close-orbit, transiting planets around red clump stars using data from the Kepler/K2 missions.

Multiplicity Statistics of Stars in the Sagittarius Dwarf Spheroidal Galaxy *Fall 2021–Spring 2022*
Research advisor: Dr. Carles Badenes, University of Pittsburgh
Examining the distribution of radial velocity (RV) variations a sample of stars identified as members of the Sagittarius (Sgr) dwarf spheroidal (dSph) galaxy using time-resolved spectra from the Apache Point Observatory Galactic Evolution Experiment (APOGEE).

Analyzing the Pulse Profiles of Pulsar Stars *Fall 2018–Fall 2018*
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

Pulsar Detection and Timing Observations *Fall 2017– Spring 2019*
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

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

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

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

Marshall Fellowship (Franklin and Marshall College) *2018*
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.

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

Teaching Experience

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

Teaching Assistant **University of Pittsburgh**
PHYS 011: Introductory Physics 1 *Summer 2022*

Teaching Assistant **University of Pittsburgh**
ASTRON 0089: Stars, Galaxies, and Cosmos *Fall 2021, Summer 2022*

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.