

Christina Gilligan

CONTACT INFORMATION	Department of Physics and Astronomy Dartmouth College 6127 Wilder Laboratory Hanover, NH 03755	<i>Work:</i> 703-209-2844 <i>E-mail:</i> christina.k.gilligan.gr@dartmouth.edu
RESEARCH INTERESTS	Observational astronomy, photometry, spectroscopy, stellar evolution, RR Lyrae, globular clusters	
EDUCATION	Dartmouth College , Hanover, NH Graduate Student, Astronomy, September 2015 - Present <ul style="list-style-type: none">• Advisor: Dr. Brian Chaboyer University of Virginia , Charlottesville, VA B.A., Astronomy-Physics, May 2015 <ul style="list-style-type: none">• Thesis: Searching for Giant Pulses in Millisecond Pulsars• Advisor: Dr. Scott Ransom	
REFEREED JOURNAL PUBLICATIONS	[1] O'Malley, E., C.K. Gilligan, and B.C. Chaboyer. Absolute ages and distances of 22 GCs using Monte Carlo Main-sequence Fitting. <i>Astrophysical Journal</i> , 838(2):162–177, April 2017. doi:10.1007/s11721-014-0100-8	
CONFERENCE TALKS	[2] Whitworth, R., and C.K. Gilligan. The JefferSat High Altitude Student Payload. In: <i>American Institute of Aeronautics and Astronautics Region 1 Student Regional Conference</i> , Ithaca, NY, April 25–26, 2014.	
CONFERENCE POSTERS	[3] Gilligan, C.K. Multiple Stellar Populations in Globular Clusters in the Large Magellanic Cloud. In: <i>Dartmouth College Graduate Poster Session</i> , April 11, 2017. [4] P. Dufour et al. Magnetic atmosphere models for white dwarfs with heavy elements. In: <i>19th European White Dwarf Conference</i> , Montreal, Canada, August 11–15, 2014.	
RESEARCH EXPERIENCE	Dartmouth College , Hanover, NH <i>Graduate Fellow</i> Summer 2016 - Present <ul style="list-style-type: none">• Department of Physics and Astronomy• Advisor: Brian Chaboyer• Running Dartmouth Stellar Evolution Code• Searching for multiple populations in LMC Globular Clusters <i>Graduate Fellow</i> Fall 2015 - Summer 2016 <ul style="list-style-type: none">• Department of Physics and Astronomy• Advisor: John Thorstensen• Found an SW Sextantis Cataclysmic Variable Star candidate University of Virginia , Charlottesville, VA <i>Undergraduate Research Assistant</i> Jan. 2013 - July 2015 <ul style="list-style-type: none">• Department of Physics• Advisor: Donald Crabb• Solid Polarized Target Group• Oversaw target material creation	

Principal Investigator for the JefferSat Project **Sep. 2013 - May 2014**

- Department of Mechanical Engineering
- Advisor: Christopher Goyne
- Creation of the JefferSat CubeSat
- Measure radiation in the upper atmosphere to ensure airline crew safety

University of Oklahoma, Norman, OK

Research Experience for Undergraduate Students **May 2014 - July 2014**

- Department of Physics and Astronomy
- Advisor: Mukremin Kilic
- Searched for dust around White Dwarfs
- Evidence for former planets around White Dwarfs

AWARDS

Dartmouth Graduate Student Poster Session Winner **April 2017**

University of Virginia Physics Research Symposium 2nd Place **April 2015**

LEADERSHIP

Dartmouth Resident Fellow **Sep. 2016 - Present**

- Involved in fostering undergraduate intellectual engagement
- Create programming for undergraduates related to physics and astronomy
- Live with students in a residential setting

**TEACHING
EXPERIENCE**

A1: Exploration of the Solar System

P13: Introductory Mechanics

SERVICE

Montshire Museum of Science: Astronomy Day Presenter **Feb. 2016**

UVa's McCormick Observatory Public Night Volunteer **Sep. 2013 - May 2015**

SOFTWARE

Python, Java, Mathematica, Linux/Unix, Autodesk Inventor, Labview, Sketchup, IRAF, DS9, Latex