

Richard S. Camuccio

CONTACT	Center for Gravitational Wave Astronomy University of Texas Rio Grande Valley One West University Blvd. Brownsville, Texas 78520, USA Office: Calvary 105C	Email: richard.camuccio01@utrgv.edu Web: www.rcamuccio.com
EDUCATION	University of Texas Rio Grande Valley , Brownsville, TX M.S., Physics, 2016 – 2019 Advisor: Mario C. Díaz Thesis: <i>Searching for Optical Counterparts to Gravitational Waves</i> Franklin & Marshall College , Lancaster, PA B.A., Astrophysics, 2012 – 2016 Advisor: Amy L. Lytle Thesis: <i>Controlling Second Harmonic Generation Using Counterpropagating Light</i>	
RESEARCH EXPERIENCE	Graduate Research Assistant Time Domain Astronomy Group Center for Gravitational Wave Astronomy, University of Texas Rio Grande Valley Undergraduate Research Assistant Lytle/Gagnon Research Group Department of Physics and Astronomy, Franklin & Marshall College Observing Assistant National Undergraduate Research Observatory Department of Physics and Astronomy, Northern Arizona University Observing Assistant National Undergraduate Research Observatory Department of Physics and Astronomy, Northern Arizona University Undergraduate Research Assistant Arecibo Remote Command Center Department of Physics and Astronomy, Franklin & Marshall College Observing Assistant Joseph R. Grundy Observatory Department of Physics and Astronomy, Franklin & Marshall College	2016 – present 2015 – 2016 2015 2013 2013 2013 – 2016
PUBLICATIONS	R. Artola et al. <i>TOROS Optical Follow-Up of the Advanced LIGO-Virgo O2 Second Observational Campaign</i> , in preparation (2019) E. Parent et al. <i>The Implementation of a Fast-Folding Pipeline for Long-Period Pulsar Searching in the PALFA Survey</i> , <i>Astrophysical Journal</i> , 861, 44 (2018) K. Stovall et al. <i>PALFA Discovery of a Highly Relativistic Double Neutron Star Binary</i> , <i>Astrophysical Journal Letters</i> , 854, L22 (2018) M. C. Díaz et al. <i>Observations of the First Electromagnetic Counterpart to a Gravitational Wave</i>	

Source by the TOROS Collaboration, Astrophysical Journal Letters, 848, 2 (2017)

B. P. Abbott et al. *Multi-messenger Observations of a Binary Neutron Star Merger*, Astrophysical Journal Letters, 848, 2 (2017)

A. L. Lytle, R. Camuccio, R. Myer, A. Penfield, and E. Gagnon, *Influence of Counterpropagating Light on Phase Matching in Second Harmonic Generation*, J. Opt. Soc. Am. B 33, 1538 (2016)

B. Christy, R. Anella, A. Lommen, L. S. Finn, R. Camuccio, and E. Handzo, *Optimization of NANOGrav's Time Allocation for Maximum Sensitivity to Single Sources*, Astrophysical Journal, 794, 163 (2014)

CONFERENCES AND
PROCEEDINGS

A. Zdrożny, R. Camuccio, M. Díaz, M. Beroiz, *Telescopes and Optical Data Analysis for O3 and Beyond*, Joint Space-Science Institute Gravitational Wave Physics and Astronomy Workshop, College Park, MD, December 2018

M. Díaz et al. *The Center of Gravitational Wave Astronomy and the Era of Multimessenger Astronomy*, Gravitational Waves Summer School, École de Physique des Houches, Les Houches, France, July 2018

LIGO Scientific Collaboration and CGWA Exhibitor, American Association for the Advancement of Science Annual Meeting, Austin, TX, February 2018

L. Macri, M. C. Díaz, D. G. Lambas, and the TOROS Collaboration, *Observations of the First Electromagnetic Counterpart to a Gravitational Wave Source by the TOROS Collaboration*, IAUS 338: Gravitational Wave Astrophysics: Early Results from GW Searches and Electromagnetic Counterparts, Baton Rouge, LA, October 2017

R. Camuccio, M. Castillo, J. Garcia, P. Lara, M. C. Díaz, and M. Beroiz, *TOROS Follow-Up Observations During O2 LIGO Observational Run*, The Amazing Life of Stars, Cefalù, Italy, September 2017

R. Camuccio, R. Myer, A. Penfield, E. Gagnon, and A. L. Lytle, *All-Optical Quasi-Phase Matching of Frequency Doubling Using Counterpropagating Light*, March Meeting of the American Physical Society, Baltimore, MD, March 2016

A. L. Lytle, E. Gagnon, and R. Camuccio, *Controlling Second Harmonic Generation with Counterpropagating Light*, OSA Frontiers in Optics/DLS Laser Science, Paper JW2A.42, San Jose, CA, October 2015

F. Crawford et al. including R. Camuccio, *The Arecibo Remote Command Center at Franklin and Marshall College*, Astronomical Society Meeting, 225, 346.03, January 2015

TALKS AND
LECTURES

Astrophysics at UTRGV, Building Astronomy in Texas Symposium, The University of Texas at Dallas, Richardson, TX, January 2019

Modern Astronomical Imaging, Time Domain Astronomy Group Teacher Workshop, C. T. Memorial Observatory, Brownsville, TX, June 2018

Grundy 2.0: The Past and Future of F&M's Observatory, 35th Annual Central Pennsylvania Consortium Astronomer's Meeting, Dickinson College, Carlisle, PA, April 2015

Astronomy at F&M: Science Projects at Franklin & Marshall College, Astronomy Enthusiasts of

Lancaster Country General Meeting, Lititz, PA, February 2015

TEACHING AND
MENTORSHIP

Graduate Mentor 2018
S. Colom (Cornell), *Characterization of Exoplanets from Transit Light Curves*
Research Experience for Undergraduates
University of Texas Rio Grande Valley

Graduate Mentor 2017
L. Duran (Brandeis), *Photometric Studies of the Asteroid 511 Davida*
B. Gomez (Texas State), *Detection of a Trans-Neptunian Object: Haumea*
Research Experience for Undergraduates
University of Texas Rio Grande Valley

Graduate Teaching Assistant 2016
Introduction to Astronomy II
Department of Physics and Astronomy, University of Texas Rio Grande Valley

Head Tutor 2016
Physics and Astronomy
Quantitative and Science Center, Franklin & Marshall College

Tutor 2015
Introduction to Physics I
Quantitative and Science Center, Franklin & Marshall College

Lab Assistant 2014 – 2016
Introduction to Physics I and II
Department of Physics and Astronomy, Franklin & Marshall College

Class Preceptor 2015
First-Year Seminar *Quarks to Quasars*
Department of Physics and Astronomy, Franklin & Marshall College

Student Instructor 2013
Intermediate and Advanced Physics
Mid-Atlantic Relativistic Initiative in Education, Franklin & Marshall College

SCHOOLS AND
WORKSHOPS

Gravitational Waves Summer School 2018
École de Physique des Houches, Les Houches, France

Open Science Grid User School 2017
University of Wisconsin-Madison, Madison, WI

Team Leader Workshop 2017
Arecibo Remote Command Center
Franklin & Marshall College, Lancaster, PA

Team Leader Workshop 2016
Arecibo Remote Command Center
University of Texas Rio Grande Valley, Brownsville, TX

NANOGrav Collaboration Meeting 2013
National Radio Astronomy Observatory, Green Bank, WV

LEADERSHIP	Assistant Director Dr. Cristina V. Torres Memorial Astronomical Observatory University of Texas Rio Grande Valley, Brownsville, TX	2016 – present
	Team Leader Arecibo Remote Command Center University of Texas Rio Grande Valley, Brownsville, TX	2016
	Team Leader Arecibo Remote Command Center Franklin & Marshall College, Lancaster, PA	2015 – 2016
	Founder F&M Builders Franklin & Marshall College, Lancaster, PA	2015 – 2016
	President Physics and Astronomy Club Franklin & Marshall College, Lancaster, PA	2013 – 2014
HONORS	Joseph R. Holzinger Award Department of Physics and Astronomy, Franklin & Marshall College	2016
SCIENTIFIC INTERESTS	Time domain astrophysics, observational astronomy, optical and infrared photometry, gravitational wave astronomy, pulsar astronomy, nonlinear optics	
PROGRAMMING	Bash, C/C++, HTCondor, HTML/CSS, IRAF, LabVIEW, L ^A T _E X, Mathematica, Python, Unix	
LANGUAGE	English (native), German (limited working proficiency), Spanish (elementary proficiency)	