Richard S. Camuccio

CONTACT

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EDUCATION

University of Texas Rio Grande Valley, Brownsville, TX
M.S., Physics, 2016 – present
Advisor: Mario C. Díaz
Thesis: *Searching for Transient Electromagnetic Counterparts to Gravitational Waves*

Franklin & Marshall College, Lancaster, PA
B.A., Astrophysics, 2012 – 2016
Advisor: Amy L. Lytle
Thesis: *Controlling Second Harmonic Generation Using Counterpropagating Light*

RESEARCH EXPERIENCE

Graduate Research Assistant 2016 – present
Center for Gravitational Wave Astronomy, University of Texas Rio Grande Valley

Undergraduate Research Assistant 2015 – 2016
Department of Physics and Astronomy, Franklin & Marshall College

Observing Assistant 2015
National Undergraduate Research Observatory, Flagstaff, AZ

Observing Assistant 2013
National Undergraduate Research Observatory, Flagstaff, AZ

Undergraduate Research Assistant 2013
Department of Physics and Astronomy, Franklin & Marshall College

Observing Assistant 2013 – 2016
Joseph R. Grundy Observatory, Franklin & Marshall College

PUBLICATIONS

E. Parent et al. including R. Camuccio, *The Implementation of a Fast-Folding Pipeline for Long-Period Pulsar Searching in the PALFA Survey*, Astrophysical Journal, accepted.

K. Stovall et al. including R. Camuccio, *PALFA Discovery of a Highly Relativistic Double Neutron Star Binary*, Astrophysical Journal Letters, 854, L22 (2018).

M. C. Díaz et al. including R. Camuccio, *Observations of the First Electromagnetic Counterpart to a Gravitational Wave Source by the TOROS Collaboration*, Astrophysical Journal Letters, 848, 2 (2017).

B. P. Abbott et al. including R. Camuccio, *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

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.

R. Camuccio, *Grundy 2.0: The Past and Future of F&M's Observatory*, 35th Annual Central Pennsylvania Consortium Astronomer's Meeting, Dickinson College, April 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.

Teaching and Mentorship

Graduate Mentor 2018
S. Colom (Cornell)
Research Experience for Undergraduates
University of Texas Rio Grande Valley

Graduate Mentor 2017
L. Duran (Brandeis) and B. Gomez (Texas State)
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 2016 – present
Dr. Cristina V. Torres Memorial Astronomical Observatory
University of Texas Rio Grande Valley, Brownsville, TX

Founder 2015 – 2016
F&M Builders
Franklin & Marshall College, Lancaster, PA

President 2013 – 2014
Physics and Astronomy Club
Franklin & Marshall College, Lancaster, PA

Honors

Joseph R. Holzinger Award 2016
Department of Physics and Astronomy, Franklin & Marshall College

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, LaTeX, Mathematica, Python, Unix

Language

English (native), German (conversational)