TERESA PANURACH

tpanurach.github.io \phi panurach@msu.edu

EDUCATION

Michigan State University (MSU) East Lansing, MI, USA PhD Student in Astronomy and Astrophysics Advisors: J. Strader and L. Chomiuk The City University of New York (CUNY) at Hunter College New York, NY, USA B.A in Physics

AWARDS AND GRANTS

NSF Graduate Research Fellowship (\$138,000)	2020
AstroCom NYC Fellowship (Full Tuition Coverage and Summer Research Stipend)	2016 - 2018
American Astronomical Society (AAS) FAMOUS Travel Grant (\$500)	2018
AstroCom NYC Senior Scholarship (\$700)	2017

REFEREED PAPERS

- 3. GS2000+25: The Least Luminous Black Hole X-ray Binary
- J. Rodriguez, R. Urquhart, R. Plotkin, **T. Panurach**, L. Chomiuk, J. Strader, J. Miller-Jones, E. Gallo, G. Sivakoff. 2020, Astrophysical Journal, 889, 58R
- 2. Constraints On Blue Straggler Formation Mechanisms in Galactic Globular Clusters from Proper Motion Velocity Distributions.
- N. W. C. Leigh, **T. Panurach**, M. Simunovic, A. M. Geller, D. Zurek, M. M. Shara, A. Sills, C. Knigge, N. Gosnell, R. Mathieu, T. H. Puzia, J. Ventura, Q. Minor. 2019, Monthly Notices of the Royal Astronomical Society, 482, 231
- 1. When Do Clusters Become Multiple Star Systems?: II. Towards a Half-Life Formalism with Four Bodies.
- T. Ibragimov, N. W. C. Leigh, T. Ryu, **T. Panurach**, R. Perna. 2018, Monthly Notices of the Royal Astronomical Society, 477, 4213

SELECTED RESEARCH EXPERIENCES

Graduate Research Assistant:

Dept. of Physics and Astronomy, MSU, East Lansing, MI

Advisors: J. Strader and L. Chomiuk

2018 - Present

• Radio and X-ray observations of low-mass X-ray binaries in globular clusters

Undergraduate Research Assistant:

Dept. of Astrophysics, American Museum of Natural History (AMNH), New York, NY

Advisor: N. W. C. Leigh 2017 - 2018

- Constrained the formation of blue stragglers in globular clusters observed by HST
- Created numerical simulations of binary-binary star systems

TEACHING

Teaching Assistant AST 208: Planets and Telescopes (31 students, MSU)	Spring 2020
Teaching Assistant ISP 205L: Visions of the Universe (2 sections, 156 students, MSU)	Spring 2019
Teaching Assistant ISP 205L: Visions of the Universe (2 sections, 178 students, MSU)	Fall 2018

STUDENTS ADVISED

Research

Jennifer Rodriguez (MSU)

2019 - Present

- Reduced and analyzed radio observations of black hole X-ray binary, GS2000+25
- Results published with student as first-author

Jerry Ortiz (CUNY at College of Staten Island)

Summer 2019

• Calculated the velocity dispersion of nucleated galaxies in the Virgo Cluster using optical spectroscopy

PRESENTATIONS

September 2020
August 2017
April 2017
October 2016
August 2016
January 2020
January 2018
September 2017
January 2017
January 2017
June 2017 - 2020
January 2019
July 2020
April 2019
September 2018
June 2018

ACADEMIC SERVICE

Physics and Astronomy Department Colloquium Host (MSU)	2020 - Prese	nt
X-ray Binary Journal Club Host (MSU)	2020 - Prese	$_{ m nt}$
Stellar Mentorship Program Mentor (MSU)	209	20
Graduate Student Search Committee Representative for Astronomy Faculty Po	sition (MSU) 202	20
National Radio Consortium Chapter Leader (MSU)	2019 - Prese	$_{ m nt}$
CUWiP Local Organizing Committee (MSU)	2018 - 20	19

SKILLS

Programming: Python (astropy, numpy, scipy, scikit-learn, matplotlib)

Major Astronomical Packages: AstroPy, CASA Languages: English (native), Thai (fluent)