

TERESA PANURACH

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

EDUCATION

Michigan State University (MSU) East Lansing, MI, USA PhD Student in Astronomy and Astrophysics Advisors: J. Strader and L. Chomiuk	2018 - Present
The City University of New York (CUNY) at Hunter College New York, NY, USA B.A in Physics	2014 - 2018

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: Jay Strader and Laura 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: Nathan 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

Talks

HEAD Virtual Seminar	September 2020
AMNH REU Symposium	August 2017
Hunter College Undergraduate Research Conference	April 2017
Society for Physics and Astronomy Research Conference	October 2016
AMNH REU Symposium	August 2016

Posters

235th AAS Meeting	January 2020
231st AAS Meeting	January 2018
Columbia University Astrofest	September 2017
229th AAS Meeting	January 2017
Princeton University Conference for Undergraduate Women in Physics (CUWiP)	January 2017

Workshops

Maximizing Your Mentoring Relationships Workshop (MSU, AMNH, and NRAO)	June 2017 - 2020
Applying to REU and Internships Workshop (CUWiP)	January 2019

Outreach

Intrepid Sea, Air and Space Museum's GOALS for Girls Presenter	July 2020
MSU's Science Festival Presenter	April 2019
Astronomy on Tap: Lansing	September 2018
Astronomy on Tap: New York City	June 2018

ACADEMIC SERVICE

Physics and Astronomy Department Colloquium Host (MSU)	2020 - Present
X-ray Binary Journal Club Host (MSU)	2020 - Present
Stellar Mentorship Program Mentor (MSU)	2020
Graduate Student Search Committee Representative for Astronomy Faculty Position (MSU)	2020
National Radio Consortium Chapter Leader (MSU)	2019 - Present
CUWiP Local Organizing Committee (MSU)	2018 - 2019

SKILLS

Programming: Python (astropy, numpy, scipy, scikit-learn, matplotlib)
Major Astronomical Packages: AstroPy, CASA
Languages: English (native), Thai (fluent)