

TERESA PANURACH

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

EDUCATION

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| Michigan State University (MSU) East Lansing, MI, USA PhD Student in Astronomy and Astrophysics | 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

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|-----------------------------------------------------------------------------|-------------|
| 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

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| 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

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| Jennifer Rodriguez (MSU) | 2019 - Present |
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- Reduced and analyzed radio observations of black hole X-ray binary, GS2000+25
- Results published with student as first-author

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| Jerry Ortiz (CUNY at College of Staten Island) | Summer 2019 |
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- Calculated the velocity dispersion of nucleated galaxies in the Virgo Cluster using optical spectroscopy

PRESENTATIONS

Talks

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| 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

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| 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

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

Outreach

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| 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

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| 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)

REFERENCES

| | |
|-----------------|----------------------|
| Jay Strader | strader@pa.msu.edu |
| Laura Chomiuk | chomiuk@pa.msu.edu |
| Danny Caballero | caballero@pa.msu.edu |