Teresa Panurach

Michigan State University
Dept. of Physics and Astronomy
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Data-driven astrophysics PhD student with 5+years of experience with statistical analysis of large data sets and creating accessible data visualizations. Experience in leadership, writing research grant proposals and departmental newsletters. Proven record of data assembly/mining, cleaning, analysis, and visualization.

EMPLOYMENT

Dept. of Physics and Astronomy, Michigan State University, East Lansing, MI — *Graduate Research Assistant* (2018 - Present)

- Developed and presented accessible data visualizations that illustrate key results to peers and the general public
- Managed and collaborated with an international team of scientists to write grant proposals and research publications

Dept. of Astrophysics, American Museum of Natural History, New York, NY — *Undergraduate Research Assistant* (2016 - 2018)

- Extracted statistically significant results from incomplete data-sets
- Performed error calculation and statistical analysis of data

LEADERSHIP EXPERIENCE

Physics-Astronomy Research Experiences with Charles Drew Science Scholars— *Director* (2020 - Present)

Created summer research internship program geared for undergraduates majoring in astronomy from historically marginalized backgrounds; ten students currently active in the program

National Astronomy Consortium— *Chapter Leader* (2019 - Present)

Site leader for undergraduate summer research program for students from historically marginalized backgrounds; approximately three students per summer

EDUCATION

Michigan State University, East Lansing, MI — *Ph.D Astronomy and Astrophysics* (Expected 2023)

Michigan State University, East Lansing, MI — *M.S Astronomy and Astrophysics* (2021)

The City University of New York (CUNY) at Hunter College, New York, NY —B.A Physics (2018)

SKILLS

Technologies: Python (pandas, matplotlib, numpy, scipy, scikit-learn, astropy) Jupyter-Notebook/Lab, Anaconda, UNIX/Linux, Git, statistics, statistical modeling, regression analysis

Languages: English (Native), Thai (Fluent)

RECENT AWARDS, GRANTS, AND FELLOWSHIPS

#ITEACHMSU Educator Award: 2021

National Radio Astronomy Observatory, Very Large Array, Semester 2022A (3 hours approved): 2021

NSF Graduate Research Fellowship ($1380,00): 2020 - 2023

PRESENTATIONS

Presented more than **20 times** at national conferences, departmental seminars, and public outreach events for the general public

PUBLICATION LINKS

Research

Astronomy Group Newsletter