

PERSONAL INFO

CONTACT

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ONLINE

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EDUCATION

WESLEYAN UNIVERSITY
Middletown, CT

B.A. ASTRONOMY
August 2017 - June 2021
Awarded departmental high honors

B.A. PHYSICS
August 2017 - June 2021

NORTH UNION HS
Richwood, Ohio

HIGH SCHOOL DIPLOMA
August 2013 - May 2017
Graduated with honors

TECHNICAL SKILLS

LANGUAGES

Python, SQL, C, HTML/CSS,
L^AT_EX

OPERATING SYSTEMS

Unix, OS X, Windows, iOS

TOOLS

Git, CIAO, Sherpa, BigQuery,
Microsoft Office, Adobe
Acrobat, Jupyter Notebook

LIBRARIES

numpy, matplotlib, pandas,
scipy, astropy, seaborn

RESEARCH

CLASSIFYING X-RAY BINARIES IN THE LOCAL UNIVERSE

Spring 2020 – Spring 2021 | Wesleyan University, Department of Astronomy

I currently work with **Dr. Roy Kilgard** on identifying and characterizing black hole X-ray binaries in the local universe.

SIMULATING THE SOLAR GRAVITATIONAL LENS

Fall 2017 – Spring 2020 | Wesleyan University, Department of Astronomy

I worked with **Dr. Seth Redfield** to develop a general-relativistic raytracer capable of simulating images from the Solar Gravitational Lens (SGL).

EXPERIENCE

TEACHING ASSISTANT, SUMMER SCIENCE PROGRAM (ASTROPHYSICS)

June 2021 - July 2021 | Virtual (CUB/NMT)

STUDENT DIRECTOR, VAN VLECK OBSERVATORY

Summer 2019 – Spring 2021 | Wesleyan University

INSTRUCTOR & COURSE ASSISTANT, OBSERVATIONAL ASTRONOMY

Spring 2021 | Wesleyan University, Department of Astronomy

TELESCOPE OPERATOR

Fall 2017 – Spring 2021 | Van Vleck Observatory

COURSE ASSISTANT, INTRODUCTION TO ASTROPHYSICS

Fall 2020 | Wesleyan University, Department of Astronomy

TEACHING ASSISTANT, THE UNIVERSE

Fall 2019 | Wesleyan University, Department of Astronomy

HONORS & AWARDS

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| Spring 2021 | Departmental High Honors in Astronomy, Wesleyan University |
| Fall 2020 | NASA CT Space Grant Consortium Undergraduate Fellowship |
| Summer 2020 | Wesleyan University Summer Research Fellow |
| Fall 2019 | NASA CT Space Grant Consortium Undergraduate Scholarship |
| Summer 2019 | Wesleyan University Summer Research Fellow |

PUBLICATIONS

Tea, M V, Kilgard, R E (2021). *A probabilistic classification scheme for ultraluminous X-ray binaries*. In preparation.

Tea, M V (2021). *Identifying, Classifying, and Contextualizing Bright X-ray Binaries in the Local Universe with Chandra*. Honors thesis. Received high honors.

Tea, M V, Redfield S (2020). *Imaging Alien Earths with the Solar Gravitational Lens*. Proceedings of the 30th Keck Northeast Astronomy Consortium Undergraduate Research Symposium, 99-103.

PRESENTATIONS

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| 2021 | Poster | 237th Meeting of the American Astronomical Society |
| 2020 | Poster | Wesleyan University Summer Research Symposium |
| 2019 | Talk | 30th KNAC Undergraduate Research Symposium |
| 2019 | Poster | Wesleyan University Summer Research Symposium |