

# Jadyn Waggoner

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Website: [jadynwaggoner.github.io](https://jadynwaggoner.github.io)

## EDUCATION

**Michigan State University**, East Lansing, MI

B.S., Astrophysics, 2021-present

- Minor in Computational Mathematics, Science and Engineering (CMSE)
- Current GPA: 3.881 (out of 4)

## RESEARCH EXPERIENCE

**Michigan State University**

June 2023 - present

Undergraduate Research Assistant - Department of Physics and Astronomy  
Supervisors: Dr. Laura Chomiuk and Dr. Joey Rodriguez  
MSU Observatory Research Program (MORP)

Weekly overnight observation using the MSU Observatory's 24 inch reflecting telescope and reducing the collected data using AstroImageJ. Achieved expert observer status with duties such as leading MSU public observing nights and training novice observers.

**Michigan State University**

May 2024 - August 2024

Undergraduate Research Assistant - Department of Physics and Astronomy  
Supervisors: Dr. Joey Rodriguez and Dr. Ryan Oelkers  
Project: *A Comprehensive Catalog of Improved Ephemerides and Stellar Parameters for Classical Variable Stars*

Summer research project that includes using machine learning algorithms to classify variable star types (RR Lyraes, classical Cepheids, Gamma Doradus, Delta Scutis, contact and detached eclipsing binaries) using data from the TESS prime mission.

## SERVICE AND OUTREACH

- Undergraduate Mentor for the MSU Stellar Mentorship Program (SMP)  
Sept 2024 - present
- Volunteering for public observing nights at the Michigan State University  
Observatory 2023-present
- Volunteer undergraduate learning assistant during a lab session for Planets  
and Telescopes class (AST208, Michigan State University) focused on  
using AstroImageJ. March 2024

## TECHNICAL SKILLS

- Optical photometry (AstroImageJ)
- HPCC supercomputer, ICER, Michigan State University
- Python, L<sup>A</sup>T<sub>E</sub>X, Github

## TEACHING EXPERIENCE

**MSU Observatory Research Program**

2024 - present

Expert observer - training novice observers how to use the MSU Observatory telescope.

## WORKSHOPS AND CONFERENCES

- Presenting a poster at the 245th American Astronomical Society (AAS)  
meeting, National Harbor, MD 12 – 16 January 2025
- Sagan Summer (Exoplanet) Workshop, Virtual July 2024