

# William W. Meynardie

University of Michigan  
Department of Astronomy  
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<b>EDUCATION</b>	<i>Ph.D. in Astronomy and Astrophysics</i> University of Michigan, Ann Arbor, MI	August 2023 - May 2028 (expected)
	<i>Bachelor of Science in Astronomy-Physics</i> Graduated with highest distinction University of Virginia, Charlottesville, VA Total GPA: 3.873/4.000 Major GPA: 3.899/4.000	August 2018 - May 2022
<b>PROFESSIONAL EXPERIENCE</b>	<i>Graduate Student Mentor</i> University of Michigan	August 2025 - Present
	➤ Currently serving as the Graduate Student Mentor in the University of Michigan's Astronomy Department. ➤ Duties include checking in on the Graduate Student Instructors, mediating conflict between instructors (student or faculty), and helping the student instructors navigate unexpected challenges as they arise.	
	<i>Graduate Student Instructor</i> University of Michigan	January 2024 - December 2024
	➤ Taught lab sessions for ASTRO 102: <i>Introductory Astronomy: Stars, Galaxies, and the Universe</i> for two semesters. ➤ Duties included 3-4 hours of classroom instruction per week, as well as office hours, grading weekly assignments, and assisting students through email.	
	<i>Postbac Research Technician</i> California Institute of Technology	August 2022 - July 2023
	➤ Duties included identifying and classifying transient events, reporting saved and classified transients to the Transient Name Server (TNS), and operating the DBSP spectrograph on numerous nights for observing runs. ➤ Research involved working on a project to analyze SN2021uvy, a supernova with an extremely long double-peaked light curve and [O III] emission lines at late times. This resulted in a co-authorship on a paper.	
	<i>Telescope Operator/Teaching Assistant</i> McCormick Observatory at the University of Virginia	September 2021 - May 2022
	➤ Duties included operating the McCormick 26-inch Refractor Telescope and pointing out objects of interest in the night sky to students.	
	<i>Research Assistant</i> National Radio Astronomy Observatory	May 2021 - August 2021
	➤ Attended the National Radio Astronomy Observatory's REU program and worked on a project analyzing the IR-Radio Correlation in substructures of	

Luminous Infrared Galaxies.

## RESEARCH PROJECTS

*Ross 458 C: Gas Giant or Brown Dwarf?* November 2023 - May 2025  
University of Michigan  
Mentored by Prof. Michael Meyer

- Reduced a JWST spectrum of the widely separated planetary-mass object Ross 458 C.
- Wrote code to convolve and interpolate grids of models to fit the data.
- Interpreted the results of the forward model analysis and a separate retrieval analysis to constrain the formation history of Ross 458 C.
- Published our results in the *Astrophysical Journal*.

*Morphological Classification of LIRGs in GOALS* August 2021 - May 2022  
University of Virginia  
Mentored by Dr. Aaron Evans and Dr. Sean Linden

- Wrote code to classify galaxies based on their Gini coefficient and  $M_{20}$  value using optical and near-IR archival HST images.
- Sorted the sample by various parameters and identified trends in the data.
- Wrote and submitted a senior thesis at the end of the school year.

*Probing Resolved Structures in LIRGs* August 2020 - August 2021  
University of Virginia, National Radio Astronomy Observatory (REU)  
Mentored by Dr. Aaron Evans and Dr. Sean Linden

- Convolved 1.49 GHz VLA and 24, 70, and 100  $\mu\text{m}$  infrared images of nearby LIRGs to a common resolution of 6.0''.
- Performed photometry on structures, comparing 1.49 GHz luminosity to total infrared luminosity.
- Wrote a report and gave a presentation on the results.

## REFEREED PUBLICATIONS

**Meynardie, W.**, Meyer, M., MacDonald, R., et al., 2025.  
*Ross 458 C: Gas Giant or Brown Dwarf*, *ApJ*, 994, 237.

Sharma, Y., Sollerman, J., **Meynardie, W.**, et al., 2025.  
*Twin Peaks: SN 2021uvy and SN 2022hgc in the Landscape of Double-peaked Stripped Envelope Supernovae*, *PASP*, 137, 094101.

Das, K., Kasliwal, M., et al. (including **Meynardie, W.**), 2025.  
*Low-luminosity Type IIP Supernovae from the Zwicky Transient Facility Census of the Local Universe. I. Luminosity Function, Volumetric Rate*, *PASP*, 137, 044203.

Goobar A., Johansson, J., et al. (including **Meynardie, W.**), 2023.  
*SN Zwicky: uncovering a population of gravitational lens galaxies with magnified 'standard candles'*, *Nature Astronomy*, 7, 1098–1107.

Song, Y., Linden, S. T., et al. (including **Meynardie, W.**), 2022.  
*Characterizing Compact 15–33 GHz Radio Continuum Sources in Local U/LIRGs*, *ApJ*, 940, 52.

## TALKS

*Ross 458 C: Gas Giant or Brown Dwarf?*  
Great Lakes Exoplanet Area Meeting 2025  
Madison, WI, November 2025.

*Probing Resolved Structures in LIRGs*

NRAO Summer Symposium  
Green Bank, WV, July 2021.

**POSTERS**

*Ross 458 C: Gas Giant or Brown Dwarf?*

Atmospheric Characterization of Rocky to Giant Exoplanets in Thermal Emission  
with JWST  
Aspen, CO, March 2025.

*Ross 458 C: Gas Giant or Brown Dwarf?*

Exoplanets V  
Leiden, the Netherlands, June 2024.

*Probing Resolved Structures in LIRGs*

The 240th meeting of the American Astronomical Society  
Pasadena, CA, June 2022.

**OUTREACH**

**F.E.M.M.E.S.**

November 2025

Volunteered to assist with hands-on astronomy activities for elementary school students through a program aimed at increasing interest in STEM fields for young girls.

**PROPOSALS  
SUBMITTED**

**James Webb Space Telescope**

Distant Substellar Companions and their Origins (as PI)

October 2025

➤ 16 hours requested to observe 5 objects.

**Hubble Space Telescope**

High Above the Main Sequence: the Properties and Fate of Star Clusters in the Most Extreme Starburst Galaxies in the Local Universe (as CoI)

April 2021, March 2022

➤ 19 orbits requested

**RELEVANT  
COURSEWORK**

**Astronomy:** Observational Astronomy, Stars & Exoplanets, High Energy Astrophysics, Stellar Structures, Astronomical Techniques, Extragalactic Astronomy, Galaxies and ISM

**Physics:** Classical Mechanics, Electromagnetism, Quantum Mechanics, Statistical Mechanics

**Mathematics:** Calculus, Differential Equations, Linear Algebra, Complex Analysis

**Computer Science:** Software Development Methods, Discrete Mathematics, Program and Data Representation

**COMPUTER  
SKILLS**

**Programming Languages:** Python, C++, C, Java

**AWARDS AND  
HONORS**

- **D. Nelson Limber Award** (for outstanding accomplishments in course work and astrophysics research by a graduating Astronomy-Physics major)
- **Echols Scholar** (Given to UVA applicants who demonstrate a passion for learning)
- **Dean's List** (5 times)
- **National Merit Scholar**

**MEMBERSHIP** Kappa Kappa Psi, National Honorary Band Fraternity March 2019 - Present

**EXTRA-CURRICULAR ACTIVITIES** University of Michigan Campus Band August 2025 - Present  
Caltech Wind Orchestra September 2022 - July 2023  
University of Virginia Cavalier Marching Band August 2018 - May 2022

**REFERENCES** Prof. Michael Meyer (Ph.D. advisor)

- Email: [mrmeyer@umich.edu](mailto:mrmeyer@umich.edu)
- Phone: (734) 764-7846

Prof. Aaron Evans (Undergraduate Research Mentor)

- Email: [aevans@virginia.edu](mailto:aevans@virginia.edu)
- Phone: (434) 924-4896

Dr. Christoffer Fremling (Postbac Supervisor)

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- Phone: (626) 375-9336