

ANDREW NINE

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EDUCATION

PhD	University of Wisconsin-Madison, Astronomy Advisor: Prof. Robert Mathieu	Expected May 2023
BS	Indiana University, Astronomy and Astrophysics Advisor: Prof. Constantine Deliyannis	May 2016
BA	Indiana University, Theatre and Drama	May 2016

RESEARCH EXPERIENCE

Research Assistant	University of Wisconsin-Madison	2018 – Present
	<ul style="list-style-type: none">• Multi-object spectroscopic observation and analysis of binary stars in open clusters• Measuring surface abundances of mass-transfer products with NEID• Modeling the chemical evolution of stars post-mass-transfer with MESA	
Undergraduate Research Assistant	Indiana University	2015 – 2016
	<ul style="list-style-type: none">• Photometric data reduction and isochrone fitting of the open cluster NGC 2423	

PEER-REVIEWED PUBLICATIONS

“WIYN Open Cluster Study. LXXXII. Radial-Velocity Measurements and Spectroscopic Binary Orbits in the Open Cluster NGC 7789,” *AJ*, 160, 169

TEACHING EXPERIENCE

Co-Instructor , University of Wisconsin-Madison	January 2021 – May 2021
<ul style="list-style-type: none">• Gave lectures and led laboratory sessions for Astronomy 140, <i>Earth 2.0: The Exoplanet Revolution</i>	
Teaching Assistant , University of Wisconsin-Madison	January 2020 – May 2020
<ul style="list-style-type: none">• Designed and led discussion sections for Astronomy 104, <i>Exploration of the Solar System</i>	

HONORS AND AWARDS

Sigma Xi , Member	2021
High Distinction , Indiana University <ul style="list-style-type: none">• Equivalent to <i>magna cum laude</i>	2016
Phi Beta Kappa (ΦBK) , Member	2016

GRANTS AND FELLOWSHIPS

Sigma Xi Grant in Aid of Research , \$3000	2020
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PRESENTATIONS

Poster Presentation, “Radial-Velocity Measurements and Spectroscopic Binary Orbits in the Open Cluster NGC 7789,” AAS #236, June 2020.

Public Presentation, “Go and Catch Two Merging Stars,” Astronomy on Tap-Baton Rouge (virtual), November 2020.

Public Presentation, “Go and Catch Two Merging Stars,” Universe in the Park, 2019.

PROFESSIONAL EXPERIENCE AND OUTREACH WORK

Presenter and Telescope Aide, Universe in the Park September 2018 – Present
UW-Madison Astronomy, Madison, WI

- Gave free public talks and facilitated telescope viewings in state parks across Wisconsin

Writer and Presenter, Radio Astronomy January 2019 – Present
WORT 89.9 FM, Madison, WI

- Wrote and recorded short segments about current astronomical news for public radio broadcast in the Madison area
- Recent segments I wrote include a celebration of Margaret Burbidge’s 100th birthday, the OSIRIS-REx mission, and the discovery of phosphine on Venus

Facilitator 1 September 2016 – August 2018
Museum of Science and Industry, Chicago, IL

- Led experiments and demonstrations covering a wide variety of topics in STEM to the general public in a major museum setting
- Topics that I covered include polymer chemistry, robotics, materials science, and the history and technology of coal mining

Volunteer Telescope Facilitator

October 2016 – August 2018

Adler Planetarium, Chicago, IL

- Facilitated free public viewing of the Sun through dedicated H α and white-light telescopes
- Engaged the public in discussions of solar physics and other topics in astronomy