

## Daniel A. Paradiso

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CONTACT INFORMATION	Department of Physics Syracuse University Syracuse, NY 13244 USA	<i>E-mail:</i> dparadis@syr.edu
EDUCATION	<b>Syracuse University</b> , Syracuse, New York USA Physics PhD Program <ul style="list-style-type: none"><li>• Attended: 2022 - Present</li><li>• Advisor: Eric Coughlin</li></ul> <b>Syracuse University</b> , Syracuse, New York USA B.S. with Distinction, Physics, <i>Magna Cum Laude</i> , 2022	
RESEARCH INTERESTS	<ul style="list-style-type: none"><li>• Shocks</li><li>• Supernovae</li><li>• Tidal Disruption Events</li></ul>	
PUBLICATIONS	<i>Low-energy explosions in a gravitational field: Implications for sub-energetic supernovae and fast X-ray transients</i> <b>Paradiso, D.A.</b> , Coughlin, E.R., Zrake, J., & Pasham, D.R., ApJ, <i>Under Review</i>  <i>The Peak of the Fallback Rate from Tidal Disruption Events: Dependence on Stellar Type</i> Bandopadhyay, A., Fancher, J., Athian, A., Indelicato, V., Kapalanga, S., Kumah, A., <b>Paradiso, D.A.</b> , Todd, M., Coughlin, E.R., & Nixon, C.J., ApJL, <i>In Press</i>	
PRESENTATIONS	<b>Syracuse University College of Arts and Sciences Research Festival</b> , April 22, 2022 Title: <i>Prototyping and Data Collection with the SciMAD Cosmic Ray Detector</i> (Oral)  <b>Syracuse University College of Arts and Sciences Research Festival</b> , April 30, 2021 Title: <i>Constructing and Testing a Helical Resonator</i> (Oral)	
RESEARCH EXPERIENCE	<b>Graduate Research Assistant</b> , Syracuse University Advisor: Eric Coughlin August 2022 - Present <ul style="list-style-type: none"><li>• Using analytical and computational methods to understand high energy astrophysical phenomena such as supernovae and tidally disrupted stars</li></ul> <b>Undergraduate Student Researcher</b> , Syracuse University Advisor: Denver Whittington June 2021 - May 2022 <ul style="list-style-type: none"><li>• Designed and programmed an array of cosmic ray detectors to detect and calculate the trajectories of muons</li></ul>	
TEACHING AND OUTREACH	<b>Teaching Assistant</b> , Syracuse University 2022 - 2023 <ul style="list-style-type: none"><li>• PHY 212: Electricity and Magnetism, <i>recitation</i></li></ul>	

**Syracuse University Research in Physics Summer Program Mentor**, Syracuse University  
2022 - Present

**Physics Outreach Group**, Syracuse University  
2021 - Present

**Holden Observatory Tour Guide**, Syracuse University  
August 2021 - Present

**Physics Undergraduate Learning Assistant**, Syracuse University  
January 2021 - May 2022

- PHY 102: Major Concepts of Physics II
- PHY 212: Electricity and Magnetism

**Museum of Science & Technology Kids Day**, Syracuse, NY  
February 22, 2020

AWARDS

**Social Justice and Community Building Award**, Syracuse University Department of Physics  
2022

**Academic Excellence Prize**, Syracuse University Department of Physics  
2022

POSITIONS

**Physics Graduate Student Organization President**, Syracuse University Department of Physics  
2023-Present

**Society of Physics Students Vice President**, Syracuse University Department of Physics  
2021-2022