

# MICHAEL RIZZO SMITH

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## EDUCATION

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### Vanderbilt University

*Ph.D Astrophysics*  
*Advisor: Kelly Holley-Bocklemann*

Nashville, TN  
Aug 2023 - Exp. 2028

### Stony Brook University

*Bachelor of Science, Physics and Astronomy & Planetary Science*  
*Magna Cum Laude with Honors in Physics*

Stony Brook, NY  
Aug 2017 - May 2021

## AWARDS AND HONORS

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Vanderbilt Graduate School Travel Grant	July 2024
McMinn Research Award	May 2024
Robert T. Lagemann Award	Apr 2024
Stony Brook Campus Scholarship	Aug 2017 - May 2021

## PROFESSIONAL WORK AND TEACHING

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<b>Member</b> , LISA, Disc-IMRI Astrophysics Working Group <i>DISCO Code-Captain, contributes simulated data sets for analysis</i>	Dec 2023 - present
<b>Member</b> , Establishing Multimessenger astronomy Inclusive Training (EMIT)	Sep 2023 - present
<b>Teaching Assistant</b> , ASTR 1010L: Intro to Astronomy Lab	Spring 2024
<b>Teaching Assistant</b> , ASTR 1010L: Intro to Astronomy Lab	Fall 2023
<b>Data Analyst</b> , The Ohio State University <i>Full-Time Research Assistant and Data Analyst for the All-Sky Automated Survey for Supernovae</i>	Jun 2021 - July 2023

## PRESENTATIONS

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<b>Talk</b> , The 15th International LISA Symposium <i>Presenting on behalf of the Disc-IMRI Code Comparison LISA Astrophysics Working Group</i>	July 2024
<b>Talk</b> , Vanderbilt's Astrophysics Journal Research Club <i>Astrophysical Disk Modelling With Hydrodynamic Simulations</i>	Feb 2024

## PUBLICATIONS

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### Accepted or submitted to peer-reviewed scientific journals

(1 first-author, 3 co-author, 60 citations)

1. J. M. M. Neustadt, C. S. Kochanek, and **Rizzo Smith, M.** *Constraints on pre-SN outbursts from the progenitor of SN 2023ixf using the large binocular telescope.* In: MNRAS 527.3 (Jan. 2024), pp. 5366–5373. arXiv: 2306.06162 [astro-ph.HE]
2. Matthew Kenworthy, [20 authors], and **Rizzo Smith, Michael.** *A planetary collision afterglow and transit of the resultant debris cloud.* In: Nature 622.7982 (Oct. 2023), pp. 251–254. arXiv: 2310.08360 [astro-ph.EP]

3. **Rizzo Smith, M.**, C. S. Kochanek, and J. M. M. Neustadt. *The late time optical evolution of twelve core-collapse supernovae: detection of normal stellar winds*. In: MNRAS 523.1 (July 2023), pp. 1474–1495. arXiv: 2212.09763 [astro-ph.HE]
4. A. Kawash, [11 authors], **Rizzo Smith, M.**, T. W. -S. Holoien, J. L. Prieto, and T. A. Thompson. *The Galactic Nova Rate: Estimates from the ASAS-SN and Gaia Surveys*. In: The Astrophysical Journal 937.2, 64 (Oct. 2022), p. 64. arXiv: 2206.14132

**(1 first-author in prep)**

1. **Rizzo Smith, M.** and C. S. Kochanek. *A Search For Emission From Old Core-Collapse Supernovae*. In: Prep. (2024)

**Non-Referred Publications**

1. M. Rizzo Smith and ASASSN-Team. *An Update on ASASSN-21qj: A Rapidly Fading, Sun-Like Star; Back With a Vengeance*. In: The Astronomer's Telegram 15531 (July 2022), p. 1
2. M. Rizzo Smith and ASASSN-Team. *ASASSN-22el: A Deep Eclipse Event*. In: The Astronomer's Telegram 15308 (Apr. 2022), p. 1
3. M. Rizzo Smith and ASASSN-Team. *ASASSN-21sa: A Deep Dimming Event*. In: The Astronomer's Telegram 14937 (Sept. 2021), p. 1
4. M. Rizzo Smith and ASASSN-Team. *ASASSN-21qj: A Rapidly Fading, Sun-Like Star*. In: The Astronomer's Telegram 14879 (Aug. 2021), p. 1
5. M. Rizzo Smith and ASASSN-Team. *ASASSN-21nn: An Unusual Dimming Event in a Red Giant Star*. In: The Astronomer's Telegram 14803 (July 2021), p. 1
6. M. Rizzo Smith and ASASSN-Team. *ASASSN-21ml: Discovery of an Extreme ( $\Delta g > 10$  mag) L-Dwarf Flare*. In: The Astronomer's Telegram 14778 (July 2021), p. 1