## **MICHAEL RIZZO SMITH**

michael.smith.4@vanderbilt.edu | michael.josmith21@gmail.com | mjosmith.github.io

## **EDUCATION**

Vanderbilt University	Nashville, TN
Ph.D Astrophysics Advisor: Kelly Holley-Bocklemann	Aug 2023 - Exp. 2029
Stony Brook University	Stony Brook, NY
Bachelor of Science, Physics and Astronomy & Planetary Science	Aug 2017 - May 2021
Magna Cum Laude with Honors in Physics	
AWARDS AND HONORS	
Honorable Mention, NSF Graduate Research Fellowships Program	April 2025
Award Recipient, Vanderbilt Graduate School Travel Grant	July 2024
Award Recipient, McMinn Research Award	May 2024
Award Recipient, Vanderbilt Robert T. Lagemann Award	Apr 2024
Departmental Honors, Dept. of Physics	May 2021
Award Recipient, Stony Brook Campus Scholarship	Aug 2017 - May 2021
Professional Work and Teaching	
Teaching Assistant, ASTR 1010L: Intro to Astronomy Lab	Fall 2023 - Spring 2025
Co-Coordinator, Vanderbilt's Graduate Student Astrophysics Journal Club	Aug 2024 - presen
Code Captain, LISA, Disc-IMRI Astrophysics Working Group	Dec 2023 - present
Member, Establishing Multimessenger astronomy Inclusive Training (EMIT)	Sep 2023 - present
Data Analyst, The Ohio State University	Jun 2021 - July 2023
Presentations	
Invited Speaker, EMIT Outreach  Presented to a local public high school on computational astrophysics, use of simulation different pathways to academia.	Jan 2025 s in science, and
<b>Talk</b> , Vanderbilt's Astrophysics Journal Research Club  The dynamics and electromagnetic signatures of accretion in unequal mass binary black I	Jan 2025 hole inspirals
<b>Talk</b> , The 15th International LISA Symposium  Presenting on behalf of the Disc-IMRI Code Comparison LISA Astrophysics Working Group	July 2024
Invited Speaker, Valor Collegiate Academy Invited to speak to first-year class of a local public high school on a career in Astrophysics path.	Mar 2024 and my personal
<b>Talk</b> , Vanderbilt's Astrophysics Journal Research Club Astrophysical Disk Modeling With Hydrodynamic Simulations	Feb 2024

## Accepted or submitted to peer-reviewed scientific journals

(1 first-author, 3 co-author, 92 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

## **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