

RYAN NOWICKI

Graduate Student at Vanderbilt University

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Curriculum Vitae – Last Updated: July 14th, 2025

Education

Vanderbilt University

Doctor of Philosophy in Astrophysics

Aug. 2023 – Expected 2028

Nashville, Tennessee

The University of Texas at Austin

Bachelor of Science in Astronomy

Bachelor of Science in Physics

Sep. 2019 – May 2023

Austin, Texas

Awards and Honors

Russell G. Hamilton Scholar and University Graduate Fellow

Fellowship at Vanderbilt University

Aug. 2023 – Present

Nashville, Tennessee

Vanderbilt University Graduate Travel Grant

Travel Grant to support attendance and poster presentation at 15th International LISA Symposium [1]

Dublin, Ireland

July 2024

Second Prize Poster, Conference for Undergraduate Women in Physics, Texas Christian University

Poster Prize awarded for poster [2]

Fort Worth, Texas

Jan. 2023

Nancy Francis and William Arnold McMinn Endowed Presidential Scholarship in Physics

Undergraduate Scholarship at the University of Texas at Austin

Aug. 2022 – May 2023

Austin, Texas

Professional Affiliations

Establishing Multi-messenger-astronomy Interdisciplinary Training (EMIT) – Student

2024 – Present

LISA Consortium – Core Member

2025 – Present

Associate Member

2024 – 2025

LIGO Scientific Collaboration – Member

2021 – Present

American Astronomical Society – Member

American Physical Society – Member

Teaching

ASTR 1010L - Introductory Nighttime Astronomy Lab

Spring, Fall 2024

- Lab class designed for non-major undergraduates at Vanderbilt University

ASTR 1020L - Introductory Daytime Astronomy Lab

Spring 2025

- Lab class designed for non-major undergraduates at Vanderbilt University

Publications

1. Ferguson, D. *et al.* Mayawaves: Python Library for Interacting with the Einstein Toolkit and the MAYA Catalog. *Journal of Open Source Software* **9**, 6032. <https://doi.org/10.21105/joss.06032> (June 2024).
2. Iglesias, H. L. *et al.* Eccentricity Estimation for Five Binary Black Hole Mergers with Higher-order Gravitational-wave Modes. *The Astrophysical Journal* **972**, 65. <https://dx.doi.org/10.3847/1538-4357/ad5ff6> (Aug. 2024).
3. Ferguson, D. *et al.* Second MAYA Catalog of Binary Black Hole Numerical Relativity Waveforms. *arXiv e-prints*, arXiv:2309.00262. arXiv: [2309.00262](https://arxiv.org/abs/2309.00262) [gr-qc] (Sept. 2023).

Posters and Presentations

1. Nowicki, R. & Jani, K. *An Accuracy Test on Approximate Waveforms in Transitionally Precessing Systems* July 2024. <https://virtual.oxfordabstracts.com/#/event/5189/submission/277>.
2. Nowicki, R., Sydnor, J. & Burke-Spolaor, S. *Wrangling a BOBcat: Building a Brand New Database for Binary Black Holes* in *American Astronomical Society Meeting Abstracts* **55** (Jan. 2023), 472.02.