EVAN F. LEWIS

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EDUCATION

Ph.D., Physics and Astronomy *August 2019 - Present*
West Virginia University (WVU), West Virginia, USA

B.S. Physics; B.S. Applied Mathematics *August 2015 - May 2019*
Syracuse University (SU), New York, USA

RESEARCH EXPERIENCE

Graduate Research Assistant *January 2020 - Present*
Center for Gravitational Waves and Cosmology (WVU)
Advisor: Maura McLaughlin

Undergraduate Research Assistant *August 2016 - May 2019*
Astrophysics and Surface Science Laboratory (SU)
PI: Gianfranco Vidali

TEACHING EXPERIENCE

Planetarium Graduate Assistant *January 2020 - May 2021*
Department of Physics and Astronomy (WVU)

Graduate Teaching Assistant *August 2019 - May 2020*
Department of Physics and Astronomy (WVU)

Physics Undergraduate Tutor *January 2018 - May 2019*
Physics Department (SU)

OUTREACH

Astrobites Writer *January 2022 - January 2024*
(My published articles)

Pulsar Search Collaboratory Mentor *January 2021 - May 2022*
Green Bank Observatory

Outreach Chair *November 2020 - November 2022*
Physics and Astronomy Graduate Student Organization (WVU)

Adopt a Physicist *October 2020; 2021; 2022; 2023*
Sigma Pi Sigma/American Physical Society

Science Policy Organization (WVU) *January 2020 - May 2023*
Treasurer, May 2021 - May 2023

Holden Observatory Tour Guide *November 2017 - May 2019*
Physics Department (SU)

PRESENTATIONS

Research Talks

"GBO Observations of the Radio Magnetar *Swift* J1818-1607." *June 2024*
Invited Lunch Talk, Green Bank Observatory, Arbovale, WV

"Multi-frequency Radio Observations of the Unique Magnetar *Swift* J1818-1607." *October 2023*
Physics of Neutron Stars Workshop, University of Maryland

"The Petabyte Project." *August 2022*
FRB2022 Meeting, IAU 2022; Virtual

"Exploring the Timing Properties of Transient Radio Pulsars." *June 2022*
American Astronomical Society Conference, Pasadena, CA

"Exploring the Timing Properties of Transient Radio Pulsars using the GBT." *December 2021*
Science At Low Frequencies Conference; Virtual Lightning Talk

"Transient Radio Pulsars." *July 2021*
Pulsar Search Collaboratory Capstone Meeting, WVU

Public Talks

"Pulsars: Enigmatic Cosmic Lighthouses." *June 2025*
East Brunswick Astronomy Club (Recording)

"Pulsars: Enigmatic Cosmic Lighthouses." *August 2023*
Stockton Astronomical Society; virtual

"Pulsars: Enigmatic Cosmic Lighthouses." *March 2023*
iTelescope webinar; virtual (Recording)

Posters

"Follow-up of Pulsars Discovered in the Arecibo 327-MHz Drift-Scan Pulsar Survey." *October 2021*
NANOGrav Fall Meeting

SUCCESSFUL PROPOSALS

***Swift* X-ray Telescope**
As PI: Target of Opportunity (ToO) # 17053, 2.3 hours

Giant Metrewave Radio Telescope (GMRT)
As PI: projects 40_010 (30 hours), 41_052 (30 hours)

Low Frequency Array (LOFAR)
As PI: project LC17_003 (12 hours)

Five-hundred-meter Aperture Spherical Telescope (FAST)
As co-PI: project SQB-2021-0173 (24 hours)

PROFESSIONAL ACTIVITIES AND SERVICE

UPRM Student Pulsar Workshop, Arecibo Observatory, August 2022: Organized and co-led sessions.

RRATalog: Organizer and maintainer.

FELLOWSHIPS AND ACADEMIC AWARDS

Robert T. Bruhn Physics Research Award (WVU)	*May 2024*
NASA West Virginia Space Grant Consortium Graduate Research Fellowship	*May 2020- May 2021*
University Scholar Nominee (SU)	*2019*
College of Arts and Science Scholar (SU)	*2019*
Distinction in Applied Mathematics (SU)	*2019*

PROFESSIONAL MEMBERSHIPS

National Science Policy Organization	*September 2021 - Present*
North American Nanohertz Observatory for Gravitational Waves	*September 2020 - Present*
American Physical Society	*August 2020 - Present*
International Planetarium Society	*May 2020 - Present*
American Astronomical Society	*May 2020 - Present*

PROFESSIONAL TRAINING

WVU High-Performance Computing Workshop	*July 2023*
La Serena School for Data Science	*August 2021*
Green Bank/Arecibo Observatory Observer Training Workshop	*October 2020*

PUBLICATIONS

11. **Lewis, E. F.**, Blumer, H., Lynch, R. S., McLaughlin, M. A. "Multifrequency Radio Observations of the Magnetar Swift J1818.0–1607." Accepted for publication in *The Astrophysical Journal*, June 2025.

10. Olszanski, T. E. E., **Lewis, E. F.**, Deneva, J. S., et al. "Discovery and Timing of 49 Pulsars from the Arecibo 327-MHz Drift Survey." Submitted to *The Astrophysical Journal*, February 2025.

9. Deneva, J. S., McLaughlin, M. A., Olszanski, T. E. E., et al. "The AO327 Drift Survey Catalog and Data Release of Pulsar Detections." *The Astrophysical Journal Supplement Series*, 271, 23. March 2024.

8. McEwen, A. E., Swiggum, J. K., Kaplan, D. L., et al. "The Green Bank North Celestial Cap Survey IX: Timing Follow-up for 128 Pulsars." *The Astrophysical Journal*, 962, 167. February 2024.

7. **Lewis, E. F.**, Olszanski, T. E. E., Deneva, J. S., et al. "Discovery and Timing of Millisecond Pulsars with the Arecibo 327 MHz Drift-scan Survey." *The Astrophysical Journal*, 956, 132. October 2023.

6. Fiore, W., Levin, L., McLaughlin, M. A., et al. "The Green Bank North Celestial Cap Survey. VIII. 21 New Pulsar Timing Solutions." *The Astrophysical Journal*, 956, 40. October 2023.

5. Swiggum, J. K., Pleunis, Z., Parent, E., et al. "The Green Bank North Celestial Cap Survey. VII. 12 New Pulsar Timing Solutions." *The Astrophysical Journal*, 944, 154. February 2023.

4. **Lewis, E. F.**, Burke-Spolaor, S., McLaughlin, M. A, et al. "The Petabyte Project." *Proceedings of the IAU, S369*, Accepted for publication November 2022.

3. Aggarwal, K., Agarwal, D., **Lewis, E. F.**, et al. "Comprehensive analysis of a dense sample of FRB 121102 bursts." *The Astrophysical Journal,* 922, 115. December 2021.

2. Agazie, G. Y., Mingyar, M. G., McLaughlin, M. A., et al. "The Green Bank Northern Celestial Cap Pulsar Survey. VI. Timing and Discovery of PSR J1759+5036: A Double Neutron Star Binary Pulsar." *The Astrophysical Journal,* 922, 35. November 2021.

1. Parent, E., Chawla, P., Kaspi, V. M., et al. "First Discovery of a Fast Radio Burst at 350 MHz by the GBNCC Survey." *The Astrophysical Journal,* 904, 92. December 2020.