

Amber K. Lenon

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Education

Syracuse University

PHD IN PHYSICS

Syracuse, NY

Jan 2020 - May 2021

West Virginia University

MS IN PHYSICS

Morgantown, WV

Aug 2016 - Dec 2019

Syracuse University

BS IN PHYSICS

Syracuse, NY

Aug 2013 - May 2016

Awards

PAARE Fellowship, Syracuse University

2020-2021

CGR Oral Award, Outstanding Graduate Oral Presentation – National Society of Black Physicists

2019

Chancellor's Scholars Fellow, West Virginia University

2019

W.E.B Du Bois Fellowship, West Virginia University

2016-2019

Publications

Short Author – Refereed and Preprints:

4. **Amber K Lenon**, Duncan A Brown, Alexander H Nitz, *Eccentric Binary Neutron Star Search Prospects for Cosmic Explorer*, arXiv:2103.14088, (2021), Submitted to Phys. Rev. D.
3. Kenneth Herner, James Annis, Alyssa Garcia, Marcelle Soares-Santos, Dillon Brout, Noemi Glaeser, Nora Sherman, Richard Kessler, Robert Morgan, Antonella Palmese, Francisco Paz-Chinchon, **Amber Lenon**, and Tristan Bachmann, *The updated DESGW processing pipeline for the third LIGO/VIRGO observing run*, EDP Sciences, 245, 01008, (2020).
2. **Amber K Lenon**, Alexander H Nitz, Duncan A Brown, *Measuring the eccentricity of GW170817 and GW190425*, Mon. Not. R. Astron Soc., Volume 497, Issue 2, September 2020, Pages 1966–1971.
1. Alexander H Nitz, **Amber K Lenon**, Duncan A Brown, *Search for Eccentric Binary Neutron Star Mergers in the first and second observing runs of Advanced LIGO*, Astrophys. J., Volume 890, Number 1, 2020 February 6

LIGO Scientific Collaboration Publications:

Following are publications that I contributed to as a member of the collaboration:

3. B. P. Abbott et al., *GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence*, Phys. Rev. Lett., 116, 241103 (2016).
2. B. P. Abbott et al., *GW150914: First Results from the Search for Binary Black Hole Coalescence with Advanced LIGO*, Phys. Rev. D 93, 122003 (2016).
1. B. P. Abbott et al., *Observation of Gravitational Waves from a Binary Black Hole Merger*, Phys. Rev. Lett., 116, 061102 (2016).

Presentations

Contributed Talks:

- Measuring the Eccentricity of GW170817 and GW190425, *National Society of Black Physicists*, November 2020, Virtual due to COVID-19
- Measuring the Eccentricity of GW170817 and GW190425, *Society for Advancement of Chicanos/Hispanics and Native Americans in Science*, October 2020, Virtual due to COVID-19
- Searching for Gravitational Waves from Eccentric Binary Neutron Stars, *National Society of Black Physicists*, November 2019
- Improving LIGO Sensitivity to Eccentric Searches, *National Society of Black Physicists*, November 2018

Invited Speaker:

- Astronomy II: Talk with Gravitational Wave Physicists, *Columbus, OH*, April 2020

Professional Development

Research Scientist

FERMI NATIONAL ACCELERATOR LABORATORY

Internship

May 2018 – Aug 2018

Southern Data Science Conference

VIRTUAL DUE TO COVID-19

Conference

Aug 2020

Southern Data Science Conference

ORLANDO, FL

Conference

Oct 2018

Skills

Languages

Python (Numpy, H5py, Pandas, Matplotlib, Scipy), Jupyter Notebook, Bash, git, HTCondor, MySQL

Statistical Modeling

Bayesian Inference, Matched Filtering