

Allison M. Matthews

CARNEGIE POSTDOCTORAL FELLOW

Carnegie Observatories

813 Santa Barbara St., Pasadena, CA 91101

☎ (+1) 207-347-9196 | ✉ amatthews@carnegiescience.edu

Appointments

Carnegie Observatories

CARNEGIE POSTDOCTORAL FELLOW

Resolving Discrepancies in the Star Formation History of the Universe

Supervisor: Dr. Drew Newman

Pasadena, CA

Sept. 2021 - PRESENT

Education

University of Virginia

PH.D. IN ASTRONOMY (GPA: 4.0)

A Radio Measurement of the Star Formation History of the Universe

Advisor: Dr. Jim Condon (National Radio Astronomy Observatory)

Charlottesville, Virginia, USA

Aug. 2021

Lafayette College

B.S. IN PHYSICS (GPA: 3.92); B.S. IN MATHEMATICS (GPA: 3.88)

Positions and Motions of Millisecond Pulsars

Advisor: Prof. David Nice

Easton, Pennsylvania, USA

May 2015

Awards and Fellowships

- 2018 - 2021 **Grote Reber Graduate Research Fellowship**, National Radio Astronomy Observatory
- 2016 - 2019 **NSF Graduate Research Fellowship**, National Science Foundation
- 2015 - 2020 **Jefferson Fellowship**, The Jefferson Fellowship Foundation
- 2016 - 2018 **Graduate STEM Research Fellowship**, Virginia Space Grant Consortium
- 2015 **Hearst Minority Fellowship in the Biological and Physical Sciences**, The Hearst Foundation
- 2014 **Barry M. Goldwater Scholar**, Honorable Mention
- 2011 - 2015 **Marquis Scholar**, Lafayette College's most prestigious four-year scholarship.

Recent Presentations

- 2022 **DSA-2000 Science Workshop**,
Invited: "A Billion Radio Galaxies" Virtual
- 2021 **SPARCS X: Capturing Science from the Pathfinder Survey Data**,
"The Cosmic Star-Formation History Measured at 1.4 GHz" Virtual
- The 237th Meeting of the American Astronomical Society**,
Dissertation talk: "A Radio Continuum Measurement of the Star Formation History of the Universe" Virtual
- 2020 **NRAO Internal Science Series**, National Radio Astronomy Observatory,
Invited: "P(D) Radio Source Counts and the Star Formation History of the Universe" Virtual
- Galaxies & Cosmology, Stars & Planets Seminar**, Harvard-Smithsonian Center for Astrophysics,
Invited: "A Radio Continuum Measurement of the Star Formation History of the Universe" Virtual
- Celebrating the Legacy of the Spitzer Space Telescope**,
"The Dust-unbiased Evolution of Star-Forming Galaxies with Spitzer and Radio Observations" Caltech/IPAC, CA

Selected Teaching and Public Outreach

Carnegie DEI Mini Grant

Recipient of a \$5,000 grant to bring bi-weekly astronomy activity kits to elementary schools in Pasadena.

Program also pairs students with Carnegie scientists to establish a structured pen-pal correspondence.

Pasadena, CA

2022 - present

Director of Dark Skies, Bright Kids Assessments Team

Designed and published assessments of the DSBK outreach program in peer-reviewed journals.

University of Virginia, VA

2020 - 2021

Secondary Instructor, *The Southern African Sky*

Co-taught an intro undergraduate course centered around the place of astronomy in African culture.

Cape Town, South Africa

2019

Instructor of Record, *ASTR 1270: Unsolved Mysteries of the Universe*

Designed my own syllabus, assignments, and assessments around active learning models.

University of Virginia, VA

2018

Publications

[Click here to visit ADS library.](#)