

Dr. Addy J. Evans

Science Educator

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I am a science educator and postdoctoral researcher with over nine years of experience in science content creation for people of all ages, ranging from children to upper-level college students and beyond. I am a skilled public speaker and creative writer, having given ~ 30 talks and countless lectures over the subjects of math, physics, chemistry, and astronomy.

EMPLOYMENT

Naval Research Laboratory Postdoctoral associate	Washington, DC September 2024 –Present
Texas A&M University Postdoctoral scholar	College Station, TX June 2024 –August 2024
Texas A&M University Graduate research and teaching assistant	College Station, TX August 2019 –May 2024
Oklahoma State University Undergraduate teaching assistant and tutor	Stillwater, OK August 2016 –July 2019

EDUCATION

Texas A&M University Ph.D. in Astronomy	College Station, TX May 2024
Texas A&M University M.S. in Astronomy	College Station, TX December 2021
Oklahoma State University B.S. in Physics, Minor in Mathematics	Stillwater, OK May 2019

WRITING & CONTENT CREATION

- Author and presenter of numerous lectures and public talks, ranging from 5 - 60 minutes in length, with topics ranging from introductory chemistry and physics to upper-level astrophysics (2016 - 2025)
- Author of several essays and scripts on science for the public, such as *Millisecond Pulsars: Cosmic Timekeepers and Celestial Lighthouses* and *Circus Celestia* (2025)
- Author of five peer-reviewed articles, two as the primary author and three as the contributing author (2021-2024)
- Author and successful recipient of four research proposals, with two awarded by NASA, one by the Department of Energy, and one by the National Academy of Sciences (2021 - 2024)
- Author of the doctoral thesis: *New Directions in Indirect Detections: Gamma-ray Observations of Globular Clusters and Dwarf Galaxies* (May 2024)

PUBLIC OUTREACH

- Circus Celestia, **Writer and puppeteer** Summer 2025
Script writer, artist, and puppeteer for the puppet show "Circus Celestia" to teach children about the strange parts of space
- Gateway to Graduate School, **Co-founder and organizer** Summer 2022 –Fall 2022
Organized an open house for undergraduates from historically-excluded backgrounds in astronomy
- Texas A&M Physics and Engineering Festival, **Volunteer** Spring 2022

Ran a science demo in which I taught children and their families how weight changes on different planets

- Astronomy on Tap B/CS, **Emcee** Fall 2021 –Spring 2022
Emcee'd monthly Astronomy on Tap events, answered audience questions about astronomy, ran astronomy trivia games, and presented multiple 20-minute-long talks
- Warrior Scholar Project: STEM Week, **Project leader** Summers 2020, 2021
Designed an introductory astronomy research project and guided veterans and active duty military workers through completion of the project
- Conference for Undergraduate Women in Physics, **Volunteer** January 2020
Judged poster presentations, spoke as a panelist, and oversaw operations
- Grandparents University, **Volunteer** Summer 2019
Taught elementary school students and their grandparents about chemistry with physical models and games
- Society of Physics Students Annual Spooky Laboratory Night, **Founder and organizer** Fall 2018
Created and organized the first-ever Halloween-themed lab night at Oklahoma State University, oversaw and setup the event, tracked success metrics
- Oklahoma State Star Parties, **Volunteer** Spring 2018 –Fall 2018
Oversaw operations at the time of the event.

TEACHING & MENTORING

- Independent Study & Mentoring Program @ Frisco High School, **Research mentor to one student** 2025 –Present
- Texas A&M TREND Program, **Research mentor to one undergraduate student** Summer 2024
- Independent research @ Texas A&M, **Research mentor to three undergraduate students** Summer 2023 –Present
- Mentoring & Advising Graduates in an Inclusive Community (MAGIC), **Coordinator & Mentor** Fall 2020 –Spring 2023
- Radiative Transfer (graduate course), **Teaching Assistant** Fall 2021
- Physics II (E&M), **Lab instructor** Fall 2020
- Warrior Scholar Project: STEM Week, **Project leader** Summers 2020, 2021
- Introduction to Astronomy, **Lab instructor** Spring 2020, Spring 2021
- Stars and Extrasolar Planets, **Teaching Assistant** Fall 2019
- Physics II (E&M), **Lab instructor** Fall 2018 –Summer 2019
- Physics, chemistry, and calculus, **University private tutor** Spring 2017 –Spring 2018
- Chemistry for Engineers, **Supplemental Instruction leader** Fall 2016 –Spring 2017

SELECTED SCHOLARSHIPS AND AWARDS

- **National Academy of Sciences Research Council Postdoctoral Associate** September 2024 –Present
- **DOE Office of Science Graduate Student Research (SCGSR) program** Summer 2022
- National Science Foundation travel grant Spring 2022
- Texas Space Grant Consortium Graduate Fellowship 2020–2022
- Society of Physics Notable Chapter Award *as Secretary* 2018–2019
- Paul A. Westhaus Physics Scholarship 2017–2019
- Friends of the Observatory Scholarship 2017–2018