

Addy J. Evans

EDUCATION

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

APPOINTMENTS

- Graduate research and teaching assistant, **Texas A&M University** 2019–Present
Advisor: Louis Strigari
- NSF-funded REU undergraduate research assistant, **University of New Mexico** Summer 2018
Advisor: Rouzbeh Allahverdi
- Undergraduate research assistant, **Oklahoma State University** 2017–2019
Advisor: Christopher Fennell

PUBLICATIONS

- [1] A. J. Evans, L. E. Strigari, and P. Zivick, “Dark and luminous mass components of Omega Centauri from stellar kinematics”, *MNRAS*, Jan. 2022.

SCHOLARSHIPS AND AWARDS

- Texas A&M Physics & Astronomy Department Travel Grant, 500 dollars Spring 2022
- Texas Space Grant Consortium Graduate Fellowship, 5k/academic year 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
- Academic Excellence Scholarship 2015–2019

CONFERENCES & PRESENTATIONS

- Aspen Center for Physics “Dark and luminous mass components of Omega Centauri” [*upcoming*] March 2022
- Astronomy on Tap B/CS: “Prospects for Detection of Space Vampires” [*outreach*] November 2021
- Master’s defense + prelim talk: “Dark matter, millisecond pulsars, and globular clusters” October 2021
- Texas A&M Astrosymposium: “Omega Centauri is a tidally stripped dwarf galaxy: Change My Mind” August 2021
- APS Texas Section: “Searching for dark matter in Omega-Centauri using stellar kinematics” November 2020 (virtual)
- Texas A&M Astrosymposium: “Searching for dark matter in Omega-Centauri” August 2020 (virtual)
- Astronomy on Tap B/CS: “A Non-Western History of Astronomy: Astronomy of the Islamic World” [*outreach*] February 2020

- Conference for Undergraduate Women in Physics (CUWiP): *Invited REU Panelist* January 2020
- Texas A&M Astrosymposium: “*Modeling Water Using Spherical Harmonic Interactions*” August 2019
- Graduate School Applications Workshop: *Invited Q&A* June 2019
- Senior Thesis Presentation: “*Oklahoma State’s Next Top Water Model(s)*” May 2019
- ACS Pentasectional Meeting: “*Modeling Water Using Spherical Harmonic Interactions*” (poster) April 2019
- CUWiP: “*Probing a Mixed Dark Matter Scenario with the CLASS Code*” (poster) January 2019
- REU Physics Symposium: “*Probing a Mixed Dark Matter Scenario with the CLASS Code*” August 2018
- CUWiP: “*Simulation of Solvated Ions Using Radial Probability Distribution Functions*” (poster) January 2018

TEACHING AND MENTORING

- Graduate Radiative Transfer, **Grader** Fall 2021
- Physics II (E&M), **Lab instructor** Fall 2020
- Warrior Scholar Project: STEM Week, **Project leader** Summer 2020, Summer 2021
- Introduction to Astronomy, **Lab instructor** Spring 2020, Spring 2021
- Stars and Extrasolar Planets, **Grader** Fall 2019
- Physics II (E&M), **Lab instructor** Spring 2018 –Summer 2019
- Physics, chemistry, and calculus, **University private tutor** Fall 2017
- Chemistry for Engineers, **Supplemental Instruction leader** Fall 2016 –Spring 2017

OUTREACH AND SERVICE

- Astronomy on Tap B/CS, **Emcee** Fall 2021
Emcee monthly Astronomy on Tap events.
- Mentoring & Advising Graduates in an Inclusive Community (MAGIC), **Coordinator** Fall 2021 –Spring 2023
Pair first year graduate students with mentors. Hold monthly meetings to discuss topics such as choosing an advisor and managing time.
- Mentoring & Advising Graduates in an Inclusive Community (MAGIC), **Mentor** Fall 2020 –Present
Meet monthly with first year graduate student, foster a safe and kind environment in the department.
- Departmental Equity and Inclusion Work, **Volunteer** Summer 2020 –Present
Meet weekly with other graduate students and one faculty member to discuss solutions to equity and inclusion issues within the department.
- Grad Aggies for Worker Safety (GAWS), **Co-founder** Summer 2020–Fall 2021
Advocate for graduate student health rights on campus. Group formed in response to the COVID-19 pandemic.
- Warrior Scholar Project: STEM Week, **Project leader** Summer 2020, Summer 2021
Worked with veterans and active duty military workers to complete an astronomy project of my own design.
- Astronomy on Tap B/CS, **Volunteer** Spring 2020
Assisted in adjusting to the new online format due to COVID-19.
- Conference for Undergraduate Women in Physics, **Volunteer** January 2020
Oversaw conference operations during the event alongside the organizers and other volunteers.
- Grandparents University, **Volunteer** Summer 2019
Oversaw elementary school students working with molecular chemistry models.
- Society of Physics Students Annual Spooky Laboratory Night, **Founder and organizer** Fall 2018
Created and organized the event. Oversaw operations at the time of the event.
- Oklahoma State Star Parties, **Volunteer** Spring 2018 –Fall 2018
Oversaw operations at the time of the event.

PROGRAMMING

- **Fluent in:** Python, LaTeX, R
- **Experience with:** C, C++, html, Javascript, CSS, git, vim