

# Addy J. Evans

Email: [addyevans@tamu.edu](mailto:addyevans@tamu.edu)

## EDUCATION

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**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

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- Office of Science Graduate Fellow, **Los Alamos National Lab** June 2022 - September 2022  
*Advisor: Pat Harding*
- 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

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- [1] A. J. Evans, L. E. Strigari, and P. Zivick, “Dark and luminous mass components of Omega Centauri from stellar kinematics”, vol. 511, no. 3, pp. 4251–4264, Apr. 2022. arXiv: 2109.10998 [[astro-ph.GA](#)].

## SCHOLARSHIPS AND AWARDS

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- **DOE Office of Science Graduate Student Research (SCGSR) program** Summer 2022
- Dr. Chia-Lia Wang Memorial Scholarship, [for travel] 750 dollars Spring 2022
- National Science Foundation travel grant, 500 dollars Spring 2022
- Texas A&M Physics & Astronomy Department Travel Grant, 500 dollars 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
- Academic Excellence Scholarship 2015–2019

## CONFERENCES & PRESENTATIONS

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- Aspen Center for Physics “Dark and luminous mass components of Omega Centauri” 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): *Panelist* January 2020
- Texas A&M Astrosymposium: “*Modeling Water Using Spherical Harmonic Interactions*” August 2019
- Graduate School Applications Workshop: *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

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- 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

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- 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.*
- 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

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