

Addy J. Evans

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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

- 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

- [1] A. J. Evans, L. E. Strigari, O. Svenborn, A. Albert, J. P. Harding, D. Hooper, T. Linden, and A. B. Pace, “On the gamma-ray emission from the core of the Sagittarius dwarf galaxy”, *arXiv e-prints*, arXiv:2212.08194, arXiv:2212.08194, Dec. 2022. arXiv: 2212.08194 [astro-ph.HE].
- [2] 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].

PROPOSALS AND GRANTS

- **Fermi Guest Investigator Proposal Cycle 15:** Searching for inverse Compton emission from globular clusters with Fermi-LAT and HAWC, \$70k [SCIENCE PI]

SCHOLARSHIPS AND AWARDS

- **DOE Office of Science Graduate Student Research (SCGSR) program** Summer 2022
- Dr. Chia-Lia Wang Memorial Scholarship, [for travel] 750 dollars Spring 2022, Spring 2023
- 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

- University of Hawai'i Cosmology Seminar “*The gamma-ray emission of dwarf galaxies and globular clusters*” March 2023
- Nuclear Astro Seminar “*On the gamma-ray emission from the core of the Sagittarius dwarf galaxy*” February 2023
- Fermi Symposium, South Africa “*The gamma-ray emission of dwarf galaxies and globular clusters*” October 2022
- University of New Mexico NUPAC Seminar “*The gamma-ray emission of globular clusters and its connection to dark matter*” August 2022
- Los Alamos National Lab Astro Seminar “*The gamma-ray emission of globular clusters and its connection to dark matter*” August 2022
- Texas A&M Astrosymposium “*The gamma-ray emission of globular clusters*” August 2022
- Fermi Summer School “*The gamma-ray emission of globular clusters with Fermi-LAT and HAWC*” June 2022
- 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

- Graduate Radiative Transfer, **Grader** Fall 2021
- Physics II (E&M), **Lab instructor** Fall 2020
- Warrior Scholar Project: STEM Week, **Project leader** Summers 2020, 2021, 2022
- 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

- TAMU Astronomy Department, **Graduate student representative** Fall 2022 –Spring 2023
Attend monthly faculty meetings and represent graduate student interests
- Gateway To Graduate School, **Co-founder and organizer** Summer 2022 –Fall 2022
Open house for undergraduates from historically-excluded backgrounds in astronomy
- TAMU Physics and Engineering Festival, **Volunteer** Spring 2022
Ran booth during event to teach children about their weight on different planets.
- Astronomy on Tap B/CS, **Emcee** Fall 2021 –Present
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** Summers 2020, 2021, 2022
Worked with veterans and active duty military workers to complete an astronomy project of my own design.
- 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