## ANTONIO C. RODRIGUEZ, PHD

Cahill Center for Astronomy and Astrophysics 1216 E California Blvd. Pasadena, CA 91125

Research Interests: White Dwarf Stars, Binary Stars, AI/ML + Astro

X-ray Surveys, Time-domain Astronomy

tonycuevas98@gmail.com http://acrodrig98.github.io Citizenship: United States of America ORCID: 0000-0003-4189-9668

RESEARCH POSITIONS	FUTURE FACULTY LEADER PRIZE FELLOW, HARVARD UNIVERSITY Fellow of the Institute for Theory and Computation (ITC)	2025–
	PH.D. STUDENT RESEARCHER, CALIFORNIA INSTITUTE OF TECHNOLOGY UNDERGRADUATE RESEARCH FELLOW, CALIFORNIA INSTITUTE OF TECHNOLOGY UNDERGRADUATE RESEARCH FELLOW, STANFORD UNIVERSITY	2020–2025 2019 2017–2020
EDUCATION	PH.D. IN ASTROPHYSICS, CALIFORNIA INSTITUTE OF TECHNOLOGY Thesis: Compact Object Binary Stars in the Multiwavelength Time-Domain Sky Advisors: Shrinivas R. Kulkarni and Kareem El-Badry	2025
	M.S. IN ASTROPHYSICS, CALIFORNIA INSTITUTE OF TECHNOLOGY	2023
	B.S. IN PHYSICS, STANFORD UNIVERSITY Honors Thesis: <i>Youthful Exuberance of FU Ori Accretion Disks</i> Advisors: Lynne A. Hillenbrand and Roger W. Romani	2020
AWARDS	THREE MINUTE THESIS (3MT) FINALIST  NATIONAL SCIENCE FOUNDATION GRADUATE RESEARCH FELLOWSHIP (\$125,000+)  FORD FOUNDATION PREDOCTORAL FELLOWSHIP (\$75,000+)  LSST-DA (FORMERLY LSSTC) DATA SCIENCE RESEARCH FELLOWSHIP (\$5,000+)  NEUGEBAUER SCHOLAR, France A. Córdova Research Fund (\$2,500)  ANTHONY FELLOWSHIP, California Institute of Technology  FORD FOUNDATION PREDOCTORAL FELLOWSHIP (HONORABLE MENTION)  JEFFREY ALAN WILLICK MEMORIAL AWARD, Stanford University  Outstanding member of the senior class concentrating in astrophysics.	2025 2022 2022 2022 2022 2020 2020 2020
AWARDED TELESCOPE TIME	PALOMAR OBSERVTORY, 5 METER HALE TELESCOPE  Magnetic Cataclysmic Variables: Characterization of X-ray Sources with ZTF Cou  Additional 20+ nights as Co-I.  Instruments Used: DBSP, CHIMERA, WASP, WIRC.	25 nights (PI) nterparts.
	CHANDRA X-RAY OBSERVATORY  Probing Polars with High Resolution X-ray Spectroscopy. (\$40,000+)  Instruments Used: ACIS/HETG.	260 ks (PI)
	CHANDRA X-RAY OBSERVATORY  Flux Limits on The Nearest Black Hole: Gaia BH1. (\$4,000+)  Instruments Used: ACIS.	20 ks (PI)
	Very Large Array	6 hr (PI)

The First Accreting White Dwarf Pulsar. Additional 4 hr as Co-I (separate proposal).

Observing Mode: Continuum.

KECK OBSERVATORY, 10 METER KECK I AND II TELESCOPES 30+ nights (Co-PI) ZTF Galactic Science Follow-ups. Instruments Used: LRIS, ESI.

JAMES WEBB SPACE TELESCOPE

11 hours (Co-I)

Uncovering the cold donors of AM CVn binaries. PI: Kareem El-Badry

HUBBLE SPACE TELESCOPE

9 orbits (Co-I)

Confirming the first strongly asynchronous polar. PI: Ilaria Caiazzo

LICK OBSERVATORY, 3 METER SHANE TELESCOPE

10+ nights (Co-I)

ZTF Galactic Science Follow-ups. Instruments Used: Kast

(AND MAJOR **PUBLICATIONS** 

FIRST AUTHOR [1] Galiullin, I., Rodriguez, A. C., et al., Optical Spectroscopy of the Most Compact Accreting Binary Harboring a Magnetic White Dwarf and a Hydrogen-rich Donor, The Astrophysical Journal Letters, 990, CONTRIBUTOR) L57 (2025), https://ui.adsabs.harvard.edu/abs/2025ApJ...990L..57G

(11 PAPERS; H-INDEX: 8;

- [2] Rodriguez, A. C., Spectroscopic detection of a 2.9-hour orbit in a long-period radio transient, Astronomy and Astrophysics Letters, 695, L8 (2025), https://ui.adsabs.harvard.edu/abs/2025A&A...695L...8R CITATIONS: 132)
  - [3] Rodriguez, A. C., El-Badry, K., et al., A Link Between White Dwarf Pulsars and Polars: Multiwavelength Observations of the 9.36-minute Period Variable Gaia22ayj, Publications of the Astronomical Society of the Pacific, 137, 024202 (2025), https://ui.adsabs.harvard.edu/abs/2025PASP..137b4202R
  - [4] Rodriguez, A. C., El-Badry, K., et al., Cataclysmic Variables and AM CVn Binaries in SRG/eROSITA + Gaia: Volume Limited Samples, X-Ray Luminosity Functions, and Space Densities, Publications of the Astronomical Society of the Pacific, 137, 014201 (2025), https://ui.adsabs.harvard.edu/abs/2025PASP. .137a4201R
  - [5] Rodriguez, A. C., From Active Stars to Black Holes: A Discovery Tool for Galactic X-Ray Sources, Publications of the Astronomical Society of the Pacific, 136, 054201 (2024), https://ui.adsabs.harvard. edu/abs/2024PASP..136e4201R
  - [6] Rodriguez, A. C., Cendes, Y., et al., No X-Rays or Radio from the Nearest Black Holes and Implications for Future Searches, Publications of the Astronomical Society of the Pacific, 136, 024203 (2024), https://ui.adsabs.harvard.edu/abs/2024PASP..136b4203R
  - [7] Galiullin, I., Rodriguez, A. C., et al., A joint SRG/eROSITA + ZTF search: Discovery of a 97-min period eclipsing cataclysmic variable with evidence of a brown dwarf secondary, Monthly Notices of the Royal Astronomical Society, 528, 676 (2024), https://ui.adsabs.harvard.edu/abs/2024MNRAS.528..676G
  - [8] Rodriguez, A. C., Galiullin, I., et al., SRGeJ045359.9+622444: A 55 Minute Period Eclipsing AM Canum Venaticorum Star Discovered from a Joint SRG/eROSITA + ZTF Search, The Astrophysical Journal, 954, 63 (2023), https://ui.adsabs.harvard.edu/abs/2023ApJ...954...63R
  - [9] Rodriguez, A. C., Kulkarni, S. R., et al., Discovery of Two Polars from a Crossmatch of ZTF and the SRG/eFEDS X-Ray Catalog, The Astrophysical Journal, 945, 141 (2023), https://ui.adsabs.harvard.edu/ abs/2023ApJ...945..141R
  - [10] Rodriguez, A. C., Mróz, P., et al., Microlensing Events in the Galactic Plane Using the Zwicky Transient Facility, The Astrophysical Journal, 927, 150 (2022), https://ui.adsabs.harvard.edu/abs/2022ApJ... 927..150R

[11] **Rodriguez, A. C.**, Hillenbrand, L. A., Application of a Steady-state Accretion Disk Model to Spectrophotometry and High-resolution Spectra of Two Recent FU Ori Outbursts, The Astrophysical Journal, 927, 144 (2022), https://ui.adsabs.harvard.edu/abs/2022ApJ...927..144R

ALL PUBLICATIONS (42 PAPERS;

[1] Galiullin, I., Rodriguez, A. C., et al., Optical Spectroscopy of the Most Compact Accreting Binary Harboring a Magnetic White Dwarf and a Hydrogen-rich Donor, The Astrophysical Journal, 990, L57 (2025), https://ui.adsabs.harvard.edu/abs/2025ApJ...990L..57G

H-INDEX: 14;

CITATIONS: 849 [2] Bhattacharjee, S., Vanderbosch, Z. P., et al., A ZTF Search for Circumstellar Debris Transits in White Dwarfs: Six New Candidates, One with Gas Disk Emission, Identified in a Novel Metric Space, Publications of the Astronomical Society of the Pacific, 137, 074202 (2025), https://ui.adsabs.harvard.edu/abs/2025PASP.137g4202B

- [3] Shariat, C., El-Badry, K., et al., Cataclysmic Variables in Triples: Formation Models and New Discoveries, Publications of the Astronomical Society of the Pacific, 137, 074201 (2025), https://ui.adsabs.harvard.edu/abs/2025PASP..137g4201S
- [4] Ding, J., Rodriguez, A. C., Improved Fermi Blazar Candidate Classifications with SRG/eROSITA X-Ray Counterparts Using Machine Learning, Publications of the Astronomical Society of the Pacific, 137, 064105 (2025), https://ui.adsabs.harvard.edu/abs/2025PASP.137f4105D
- [5] Cunningham, T., Caiazzo, I., et al., Discovery of two new polars evolved past the period bounce, Monthly Notices of the Royal Astronomical Society, 540, 633 (2025), https://ui.adsabs.harvard.edu/abs/2025MNRAS.540..633C
- [6] Li, M. L., Ho, A. Y. Q., et al., The Nature of Optical Afterglows without Gamma-Ray Bursts: Identification of AT2023lcr and Multiwavelength Modeling, The Astrophysical Journal, 985, 124 (2025), https://ui.adsabs.harvard.edu/abs/2025ApJ...985..124L
- [7] van Roestel, J., Rodriguez, A. C., et al., Cyclotron emitting magnetic white dwarfs in post commonenvelope binaries discovered with the Zwicky Transient Facility, Astronomy and Astrophysics, 696, A242 (2025), https://ui.adsabs.harvard.edu/abs/2025A&A...696A.242V
- [8] Rodriguez, A. C., Spectroscopic detection of a 2.9-hour orbit in a long-period radio transient, Astronomy and Astrophysics, 695, L8 (2025), https://ui.adsabs.harvard.edu/abs/2025A&A...695L...8R
- [9] Rodriguez, A. C., El-Badry, K., et al., A Link Between White Dwarf Pulsars and Polars: Multiwavelength Observations of the 9.36-minute Period Variable Gaia22ayj, Publications of the Astronomical Society of the Pacific, 137, 024202 (2025), https://ui.adsabs.harvard.edu/abs/2025PASP..137b4202R
- [10] Bhattacharjee, S., Kulkarni, S. R., et al., Variability of Central Stars of Planetary Nebulae with the Zwicky Transient Facility. I. Methods, Short-timescale Variables, and the Unusual Nucleus of WeSb 1, Publications of the Astronomical Society of the Pacific, 137, 024201 (2025), https://ui.adsabs.harvard.edu/abs/2025PASP.137b4201B
- [11] Hermes, J. J., Guidry, J. A., et al., Sporadic Dips from Extended Debris Transiting the Metal-rich White Dwarf SBSS 1232+563, The Astrophysical Journal, 980, 56 (2025), https://ui.adsabs.harvard.edu/abs/2025ApJ...980...56H
- [12] Rodriguez, A. C., El-Badry, K., et al., Cataclysmic Variables and AM CVn Binaries in SRG/eROSITA + Gaia: Volume Limited Samples, X-Ray Luminosity Functions, and Space Densities, Publications of the

- Astronomical Society of the Pacific, 137, 014201 (2025), https://ui.adsabs.harvard.edu/abs/2025PASP. .137a4201R
- [13] Zhai, R., Rodriguez, A. C., et al., Microlensing Events in Five Years of Photometry from the Zwicky Transient Facility, The Astrophysical Journal, 978, 76 (2025), https://ui.adsabs.harvard.edu/abs/2025ApJ. ..978...76Z
- [14] Shariat, C., Naoz, S., et al., Once a Triple, Not Always a Triple: The Evolution of Hierarchical Triples That Yield Merged Inner Binaries, The Astrophysical Journal, 978, 47 (2025), https://ui.adsabs.harvard.edu/abs/2025ApJ...978...47S
- [15] Blomberg, L., El-Badry, K., et al., The Companion Mass Distribution of Post Common Envelope Hot Subdwarf Binaries: Evidence for Boosted and Disrupted Magnetic Braking?, Publications of the Astronomical Society of the Pacific, 136, 124201 (2024), https://ui.adsabs.harvard.edu/abs/2024PASP. .13614201B
- [16] Ding, J., Rodriguez, A. C., Multi-wavelength Classification of Active and Star-forming Galaxies on the BPT Diagram with Supervised Machine Learning Models, Publications of the Astronomical Society of the Pacific, 136, 124102 (2024), https://ui.adsabs.harvard.edu/abs/2024PASP.13614102D
- [17] Galiullin, I., Rodriguez, A. C., et al., Searching for new cataclysmic variables in the Chandra Source Catalog, Astronomy and Astrophysics, 690, A374 (2024), https://ui.adsabs.harvard.edu/abs/2024A&A... 690A.374G
- [18] Oei, M. S. S. L., Hardcastle, M. J., et al., Black hole jets on the scale of the cosmic web, Nature, 633, 537 (2024), https://ui.adsabs.harvard.edu/abs/2024Natur.633..537O
- [19] Pelisoli, I., Chomiuk, L., et al., A survey for radio emission from white dwarfs in the VLA Sky Survey, Monthly Notices of the Royal Astronomical Society, 531, 1805 (2024), https://ui.adsabs.harvard.edu/abs/2024MNRAS.531.1805P
- [20] Sarkar, A., Rodriguez, A. C., et al., Magnetic braking below the cataclysmic variable period gap and the observed dearth of period bouncers, Astronomy and Astrophysics, 686, L19 (2024), https://ui.adsabs.harvard.edu/abs/2024A&A...686L..19S
- [21] Schwope, A., Kurpas, J., et al., Compact white dwarf binaries in the combined SRG/eROSITA/SDSS eFEDS survey, Astronomy and Astrophysics, 686, A110 (2024), https://ui.adsabs.harvard.edu/abs/2024A&A...686A.110S
- [22] Rodriguez, A. C., From Active Stars to Black Holes: A Discovery Tool for Galactic X-Ray Sources, Publications of the Astronomical Society of the Pacific, 136, 054201 (2024), https://ui.adsabs.harvard.edu/abs/2024PASP..136e4201R
- [23] Sharma, Y., Sollerman, J., et al., Dramatic Rebrightening of the Type-changing Stripped-envelope Supernova SN 2023aew, The Astrophysical Journal, 966, 199 (2024), https://ui.adsabs.harvard.edu/abs/2024ApJ...966..199S
- [24] Rodriguez, A. C., Cendes, Y., et al., No X-Rays or Radio from the Nearest Black Holes and Implications for Future Searches, Publications of the Astronomical Society of the Pacific, 136, 024203 (2024), https://ui.adsabs.harvard.edu/abs/2024PASP..136b4203R
- [25] Galiullin, I., Rodriguez, A. C., et al., A joint SRG/eROSITA + ZTF search: Discovery of a 97-min

- period eclipsing cataclysmic variable with evidence of a brown dwarf secondary, Monthly Notices of the Royal Astronomical Society, 528, 676 (2024), https://ui.adsabs.harvard.edu/abs/2024MNRAS.528..676G
- [26] Mori, K., Ponti, G., et al., The high energy X-ray probe (HEX-P): Resolving the nature of Sgr A\* flares, compact object binaries and diffuse X-ray emission in the Galactic center and beyond, Frontiers in Astronomy and Space Sciences, 10, 1292130 (2024), https://ui.adsabs.harvard.edu/abs/2024FrASS. .1092130M
- [27] Ho, A. Y. Q., Perley, D. A., et al., Minutes-duration optical flares with supernova luminosities, Nature, 623, 927 (2023), https://ui.adsabs.harvard.edu/abs/2023Natur.623..927H
- [28] Miller, D. R., Caiazzo, I., et al., An Extremely Massive White Dwarf Escaped from the Hyades Star Cluster, The Astrophysical Journal, 956, L41 (2023), https://ui.adsabs.harvard.edu/abs/2023ApJ...956L. .41M
- [29] El-Badry, K., Burdge, K. B., et al., A transiting brown dwarf in a 2 hour orbit, The Open Journal of Astrophysics, 6, 33 (2023), https://ui.adsabs.harvard.edu/abs/2023OJAp....6E..33E
- [30] Nagarajan, P., El-Badry, K., et al., Spectroscopic follow-up of black hole and neutron star candidates in ellipsoidal variables from Gaia DR3, Monthly Notices of the Royal Astronomical Society, 524, 4367 (2023), https://ui.adsabs.harvard.edu/abs/2023MNRAS.524.4367N
- [31] Yamaguchi, N., El-Badry, K., et al., Sodium enhancement in evolved cataclysmic variables, Monthly Notices of the Royal Astronomical Society, 524, 740 (2023), https://ui.adsabs.harvard.edu/abs/2023MNRAS. 524..740Y
- [32] Rodriguez, A. C., Galiullin, I., et al., SRGeJ045359.9+622444: A 55 Minute Period Eclipsing AM Canum Venaticorum Star Discovered from a Joint SRG/eROSITA + ZTF Search, The Astrophysical Journal, 954, 63 (2023), https://ui.adsabs.harvard.edu/abs/2023ApJ...954...63R
- [33] Caiazzo, I., Burdge, K. B., et al., A rotating white dwarf shows different compositions on its opposite faces, Nature, 620, 61 (2023), https://ui.adsabs.harvard.edu/abs/2023Natur.620...61C
- [34] El-Badry, K., Shen, K. J., et al., The fastest stars in the Galaxy, The Open Journal of Astrophysics, 6, 28 (2023), https://ui.adsabs.harvard.edu/abs/2023OJAp....6E..28E
- [35] El-Badry, K., Rix, H.-W., et al., A red giant orbiting a black hole, Monthly Notices of the Royal Astronomical Society, 521, 4323 (2023), https://ui.adsabs.harvard.edu/abs/2023MNRAS.521.4323E
- [36] Rodriguez, A. C., Kulkarni, S. R., et al., Discovery of Two Polars from a Crossmatch of ZTF and the SRG/eFEDS X-Ray Catalog, The Astrophysical Journal, 945, 141 (2023), https://ui.adsabs.harvard.edu/abs/2023ApJ...945..141R
- [37] El-Badry, K., Rix, H.-W., et al., A Sun-like star orbiting a black hole, Monthly Notices of the Royal Astronomical Society, 518, 1057 (2023), https://ui.adsabs.harvard.edu/abs/2023MNRAS.518.1057E
- [38] Andreoni, I., Coughlin, M. W., et al., A very luminous jet from the disruption of a star by a massive black hole, Nature, 612, 430 (2022), https://ui.adsabs.harvard.edu/abs/2022Natur.612..430A
- [39] El-Badry, K., Conroy, C., et al., Magnetic braking saturates: evidence from the orbital period distribution of low-mass detached eclipsing binaries from ZTF, Monthly Notices of the Royal Astronomical Society, 517, 4916 (2022), https://ui.adsabs.harvard.edu/abs/2022MNRAS.517.4916E

- [40] Rodriguez, A. C., Mróz, P., et al., Microlensing Events in the Galactic Plane Using the Zwicky Transient Facility, The Astrophysical Journal, 927, 150 (2022), https://ui.adsabs.harvard.edu/abs/2022ApJ... 927..150R
- [41] Rodriguez, A. C., Hillenbrand, L. A., Application of a Steady-state Accretion Disk Model to Spectrophotometry and High-resolution Spectra of Two Recent FU Ori Outbursts, The Astrophysical Journal, 927, 144 (2022), https://ui.adsabs.harvard.edu/abs/2022ApJ...927..144R
- [42] Hillenbrand, L. A., Isaacson, H., et al., LkH $\alpha$  225 (V1318 Cyg) South in Outburst, The Astronomical Journal, 163, 115 (2022), https://ui.adsabs.harvard.edu/abs/2022AJ....163..115H

STUDENT	Domani Sharkey (Caltech SURF; to postbac at UIUC)	2024
Mentoring	Project: X-ray Active Stars with SRG/eROSITA (co-advised w/ Kareem El-Badry)	
	Ruocheng Zhai (Caltech SURF from Tsinghua Univ; to PhD at Penn State)	2023
	Project: Microlensing with ZTF II (co-advised w/ Shri Kulkarni)	
Presentation	NS Monday Afternoon Astronomy Seminar	2025
and Talks	UCLA. Los Angeles, CA.	
	Ten Years to LISA Conference	2025
	Jet Propulsion Laboratory. Pasadena, CA.	
	High Energy Astrophysics Seminar	2024
	Center for Astrophysics   Harvard & Smithsonian. Cambridge, MA.	
	Astronomy Department Seminar	2024
	Columbia University. New York, NY.	
	Data Group Meeting	2024
	Flatiron Institute Center for Computational Astrophysics (CCA). New York, NY.	
	Astronomy Department Seminar	2024
	Institute of Science and Technology of Austria (ISTA). Vienna, Austria	
	Celebrating the History of Warwick Astronomy and Legacy of Tom Marsh, Contributed Talk	2024
	University of Warwick. Coventry, UK	
	STARS Group Meeting	2024
	Institute of Astronomy, University of Cambridge. Cambridge, UK.	
	XMM-Newton Science Meeting: From White Dwarfs to Neutron Stars, Contributed Talk	2024
	ESA Science Center. Madrid, Spain	
	Embarrasing Binaries: Symbiotic Stars, Cataclysmic Variables, and More, Contributed Talk	2024
	Charles University. Prague, Czechia	
	High Energy Astrophysics Seminar	2024
	Kyoto University. Kyoto, Japan.	
	University of Hertsfordshire Astronomy Colloquium	2024
	University of Hertsfordshire. Hertsfordshire, UK.	
	IPAC Science Seminar	2024
	IPAC/Caltech. Pasadena, CA.	
	ZTF Team Meeting	2023
	Caltech. Pasadena, CA.	
	The Golden Age of Cataclysmic Variables VI.	2023
	La Torre Hotel. Mondello, Palermo, Italy.	
	AM CVn5: 5th International Workshop on AM CVn Binaries	2023

	Armagn Observatory & Planetarium. Armagn, Northern Ireland	
	Chandra 24th Annual Workshop	2023
	MIT. Cambridge, Massachussetts.	
	Palomar Science Meeting – 75 Years of Palomar	2023
	Caltech. Pasadena, CA.	
	Caltech Tea Talk	2023
	Caltech. Pasadena, CA.	
	KITP Workshop Talk: White Dwarfs as Probes of the Evolution of Planets, Stars, the Milk	xy Way and the
	Expanding Universe	2022
	University of California, Santa Barbara. Santa Barbara, CA	
	Chandra Lunch Seminar	2022
	MIT. Cambridge, Massachusetts.	
	Theoretical Astrophysics Lunch Seminar	2022
	Cornell University. Ithaca, NY.	
	COSMOS Lunch Talk (fully in Spanish)	2022
	Universidad de Guanajuato. Guanajuato, Mexico.	
	ZTF Team Meeting	2022
	Northwestern Univeristy. Evanston, IL	
	Keck Science Meeting	2022
	Caltech. Pasadena, CA.	
	25th International Microlensing Meeting	2022
	Observatoire de Paris, Prance.	_0
	FLASH Lunch Talk	2022
	University of California, Santa Cruz, CA	2022
	American Astronomical Society Meeting	2022
	Pasadena, CA.	2022
	High Energy Astrophysics Colloquium	2022
	Max Plack Institute for Astrophysics (MPA). Garching, Germany	2022
	Astrophysics Lunch Seminar	2022
	Radboud University. Nijmegen, Netherlands	2022
	ZTF Stellar Group Conference	2022
	•	2022
	University of Warwick. Coventry, UK	2022
	ZTF Team Meeting	2022
	IN2P3. Paris, France	2020
	American Astronomical Society Meeting	2020
	Honolulu, Hawaii	
T	Division of the American Telegraphic American	2021 2022
	PHYSICS AND ASTROPHYSICS TEACHING ASSISTANT	2021-2022
TUTORING	Caltech Division of Physics, Mathematics, and Astronomy.	
	Physics 1A: Introductory Physics (Fall 2021).	
	Astronomy 102: Physics of the Interstellar Medium (Winter 2022).	
	Astronomy 3: Discovering the Universe (Spring 2023).	
	STANFORD CENTER FOR TEACHING AND LEARNING MATH AND PHYSICS TUTOR	2018-2020
	LEAD MATH AND PHYSICS TUTOR	2019-2020
	Stanford Office of the Vice Provost for Teaching and Learning	
		<b>222</b>
OUTREACH	CALTECH ASTRONOMY OUTREACH	2020-
	Speaker at public talks including stargazing nights and Astronomy on Tap. Host for A.	stronomía
	en el Bar events held completely in Spanish.	
	STANFORD ASTRONOMICAL SOCIETY, CO-PRESIDENT	2017-2020
	MEMBER	2016-2020

Participated in and led quarterly stargazing and informational sessions for the public. Led regular outreach events and directed expansion of events to underserved Bay Area elementary and middle schools. Helped manage a \$10,000+ budget for telescopes, astrophotography, outreach activities, external collaborations, emergency fund, etc.

PROFESSIONAL	Caltech Astronomy Graduate Admissions Committee, Student Representative	2022-2023
MEMBERSHIP	American Astronomical Society, Graduate Member	2020-
	American Astronomical Society, Undergraduate Member	2019-2020
	Stanford Physics Department Committee on Undergraduate Studies	2019-2020

TECHNICAL Python (Numpy, Scipy, Jupyter Notebook), Mathematica, Java, C++, R, LATEX, Git, Unix/Linux,

SKILLS IRAF/PyRAF, SExtractor, TOPCAT, SAO DS9.

Languages: English (Native), Spanish (Native), French (Conversational).