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EDUCATION

California Institute of Technology - Pasadena, CA

Doctor of Philosophy: Astrophysics

Expected June 2025

Master of Science: Astrophysics

June 2021

California State Polytechnic University, Pomona

May 2019

Bachelor of Science: Physics (*Magna Cum Laude*)

El Camino College (ECC) - Torrance, CA

June 2017

Associate of Science: Physics, Astronomy, Mathematics,

Pre-Engineering, Physical Science (*Magna Cum Laude*)

Associate of Arts: General Studies Biology and Physical Sciences (*Magna Cum Laude*)

RESEARCH INTERESTS

high redshift galaxy evolution, hi-z circumgalactic medium, quasar absorber host galaxies, core collapse supernova yields, damped lyman alpha absorbers, galactic chemical evolution, stellar population synthesis, young stellar objects, stellar evolution, observational cosmology

HONORS AND AWARDS

Keck Institute for Space Studies Affiliate at Caltech

Winter 2022-Present

NSF GRFP Fellow at Caltech

Fall 2019-Present

Rose Hills Fellow at Caltech

Fall 2019-Summer 2020

Cal Poly Pomona "Poly Cup" for Best Talk Proposal

Spring 2019

2018 AAS Chambliss Astronomy Achievement Award for Poster Presentation

Winter 2018

Cal-Bridge 4th Cohort Scholar at Cal Poly Pomona

Fall 2017-Present

2017 El Camino College Natural Sciences Division Presidential Scholar Award

Spring 2017

Astronomy Award Recipient at El Camino College

Spring 2017

2017 Silver Medalist, University Physics Competition

Winter 2017

RESEARCH EXPERIENCE

High-Redshift Galaxies Group w/ Chuck Steidel

Spring 2021-Present

Cahill Center for Astronomy and Astrophysics. Pasadena, CA

Galactic Archaeology Group w/ Evan Kirby

Summer 2019-Present

Nieuwland Science Hall. Notre Dame, CA

Smithsonian Astrophysical Observatory REU w/ Joel Leja and Charlie Conroy

Summer 2018

Harvard-Smithsonian Center for Astrophysics. Cambridge, MA

Undergraduate Researcher w/ Matthew Povich and Breanna Binder

Summer2017-Spring 2019

Cal Poly Pomona. Pomona, CA

University of Wyoming REU w/ Joe Findlay and Adam Myers
University of Wyoming, Laramie, WY.

Summer 2016

OBSERVING EXPERIENCE

<u>Keck/KCWI, 3 nights</u>	2024A
<u>Keck/MOSFIRE, 3 nights</u>	2023B
<u>Keck/KCWI, 3 nights</u>	2023B
<u>Keck/LRIS (Imaging), 1 night</u>	2023A
<u>Keck/MOSFIRE (Imaging), 1 nights</u>	2023A
<u>Keck/MOSFIRE, 3 nights</u>	2023A
<u>Keck/KCWI, 3 nights</u>	2022B
<u>Keck/KCWI, 3 nights</u>	2022A
<u>Keck/MOSFIRE, 4 nights</u>	2022A
<u>Keck/KCWI 1 night</u>	2021B
<u>P200 (Palomar)/PCWI Optical IFU, 1 night</u>	2019B
<u>Keck/DEIMOS, 1 nights</u>	2019B
<u>WIRO (University of Wyoming)/Long-Slit Spectrograph, 14 nights</u>	2017
<u>WIRO (University of Wyoming)/DoublePrime Imager, 30 nights</u>	2016

RESEARCH MENTORING

Summer Undergraduate Research Fellows (SURF) Program. <i>Caltech</i> <i>Charis Hall (Caltech '27)</i>	Summer 2024
Freshman Summer Research Institute (FSRI) Experience. <i>Caltech</i> <i>Charis Hall (Caltech '27)</i>	Summer 2023
Freshman Summer Research Institute (FSRI) Experience. <i>Caltech</i> <i>America Luna Herrera, Dilichi Obichukwu Nwankwo (Both Caltech '25)</i>	Summer 2021

PEER MENTORING

WAVE Undergrad Summer Fellows Pod Council Mentor. <i>CIT</i> <i>Grace Kallman, Krystyn Roldan, Mina Thoresen, William Salazar,</i> <i>Anuranj Roy, Ananda Smith, Sophia Winney, Vaennessa Nickell</i>	Summer 2024
WAVE Undergrad Summer Fellows Pod Council Mentor. <i>CIT</i> <i>Cecilia Ochoa, Hanna Adamski, Miranda Zak,</i> <i>Mark Lewis, Kayla Smith</i>	Summer 2023
WAVE Undergrad Summer Fellows Pod Council Mentor. <i>CIT</i> <i>Juan Granieri, Nickholas Gutierrez, Sally Jiang, Ubaid Kazianga,</i> <i>Alexandra Masegian, Rey Squillance</i>	Summer 2022
WAVE Undergrad Summer Fellows Pod Council Mentor. <i>CIT</i> <i>Aldair Bonilla, Cameron Moffet-Smith, David Dumas, Daria Bonds,</i> <i>Derek Poletti, Frenly Espino, Sydney Hunt</i>	Summer 2021

TEACHING POSITIONS

Introduction to Astronomy (Ay 1). Teaching Assistant. <i>CIT</i>	Spring 2021
Galaxy Evolution/Formation (Ay 24). Teaching Assistant. <i>CIT</i>	Winter 2021
Stars and Galaxy (Ay 20) Teaching Assistant. <i>CIT</i>	Fall 2020
Physics Learning Assistant. <i>CPP</i>	Spring 2019

Astronomy Lab Night Assistant. *ECC*
Supplemental Instruction Coach for Astronomy. *ECC*

Fall 2015-Spring 2017
Fall 2015

OUTREACH POSITIONS

Caltech Astro Outreach Team. *CIT*
Student Telescope Operator. *CPP*
Outreach Talk Presenter. *CPP*
STEM Ambassador. *ECC*

Fall 2019-Present
Fall 2017-Spring 2019
Fall 2017-Spring 2019
Spring 2015-Spring 2017

EXTRACURRICULAR ACTIVITIES

Cal-Bridge Partnership Committee Member
Cal-Bridge Peer Mentoring Taskforce
PMA Division Diversity Task Force. *CIT*
Secretary/Member of Black Scientists and Engineers at Caltech. *CIT*
President/Founding Member for Mathematical Physics Club. *ECC*
Vice President/Secretary for Astronomy & Astrophysics Club. *ECC*
JPL Undergraduate Scholars (JPLUS). *JPL/NASA*
NASA Community College Aerospace Scholars (NCAS). *JPL/NASA*

Spring 2021-Present
Winter 2021-Present
Fall 2020-Present
Fall 2019-Present
Fall 2015-Spring 2017
Spring 2015-Spring 2017
Spring 2015-Fall 2015
Fall 2015

SCIENCE/CONFERENCE TALKS

Astro Lunch Talk at UCLA
FLASH Lunch Talk at UC Santa Cruz
Astro Lunch Talk at University of Washington
GALFRESCA 2024 at Carnegie Observatories
Lunch Seminar at Carnegie Observatories (Invited)
Cal-Bridge Fall Conference 2024 at UC Irvine
Cosmology Seminar at UC Davis (Invited)
Observer Lunch at Northwestern/CIERA
Near Field Cosmology Weekly Meeting at UChicago
Astro Seminar at University of Notre Dame (Invited)
AAS 244 in New Orleans, LA
Resolving Galaxy Ecosystems Across All Scales at Chinese U of Hong Kong
Cal-Bridge Fall Conference at UC Berkeley
Astro Seminar at University of Kansas (Invited)
GALFRESCA 2023 at UC Riverside
Oasis in the Cosmic Desert at Arizona State University
Diffuse Gas around Galaxies Weekly Discussion at University of Washington
Astro Seminar at University of Notre Dame (Invited)
What Matters Around Galaxies in Champoluc Italy
Astro Seminar at University of Kansas (Invited)
AAS 240 in Pasadena, CA USA
GalFRESCA 2019 Conference at UC Irvine
STARRY Conference at Leeds, UK
California State Student Research Competition at CSU Sacramento (Invited)
CAMPARE/Cal-Bridge Symposium at Cal Poly Pomona
SAO REU Symposium at Harvard-Smithsonian Center for Astrophysics

October 2024
October 2024
October 2024
September 2024
September 2024
September 2024
August 2024
April 2024
April 2024
April 2024
January 2024
December 2023
October 2023
October 2023
September 2023
February 2023
October 2022
August 2022
September 2022
October 2021
June 2022
Summer 2019
Summer 2019
Spring 2018
Summer 2018
Summer 2018

Creative Activities Conference at Cal Poly Pomona (Invited)
CAMPARE Symposium at Cal Poly Pomona
Summer Symposium at University of Wyoming

Spring 2018
 Summer 2017
 Summer 2016

PUBLIC/OUTREACH/DEI TALKS

<i>Black In Science Conference</i> via <u>Cal-Bridge (Remote)</u>	October 2023
<i>Astro on Tap</i> at <u>Caltech</u>	Spring 2021
<i>Upward Bound Career Panel</i> at <u>Claremont Colleges (Remoote)</u>	Summer 2021
<i>BEAM LA Career Day 2</i> via <u>Cal Poly Pomona (Remote)</u>	Summer 2021
<i>BEAM LA Career Day 1</i> via <u>Cal Poly Pomona (Remote)</u>	Summer 2021
<i>West Torrance High School (alma mater)</i> in <u>Torrance, CA</u>	Spring 2021
<i>BEAM LA Career Day</i> via <u>Cal Poly Pomona (Remote)</u>	Summer 2020
<i>Astronomy Night, Q&A Panelist</i> at <u>Caltech</u>	Spring 2020
<i>Astronomy Night, Q&A Panelist</i> at <u>Caltech</u>	Fall 2019
<i>Madison Elementary School Astronomy Night</i> in <u>Pomona, CA</u>	Fall 2018
<i>California High School Astronomy Night</i> in <u>Pomona, CA</u>	Fall 2018
<i>Physics Club Talk</i> at <u>El Camino College (alma mater)</u>	Spring 2018
<i>West Torrance High School (alma mater)</i> in <u>Torrance, CA</u>	Spring 2018
<i>Planetarium Show Presenter</i> at <u>El Camino College</u>	Fall 2016

POSTER PRESENTATIONS

1. **E.H. Nunez**, E. Kirby, C. Steidel. *Constraints on Massive Star Yields using Very Metal Poor Clouds*. 2023, Future of Faculty Workshop, University of Notre Dame
2. **E.H. Nunez**, E. Kirby, C. Steidel. *Constraints on Massive Star Yields using Very Metal Poor Clouds*. 2021, American Astronomical Society
3. **E. H. Nunez**, J. Leja, and C. Conroy. *Using Distant Galaxies to Constrain the Ionizing Photon Budget of Massive Stars*. 2019, American Astronomical Society #233, id.364.16
4. **E. H. Nunez**, M. S. Povich, B. A. Binder, P. Broos, and L. K. Townsley. *Characterizing Intermediate-Mass, Pre-Main-Sequence Stars via X-Ray Emission*. 2018, Chandra Science Workshop on Accretion in Stellar Systems, id.3
5. **E. H. Nunez**, M. S. Povich, B. A. Binder, P. Broos, and L. K. Townsley. *Characterizing Intermediate-Mass, Pre-Main-Sequence Stars via X-Ray Emission*. 2018, American Astronomical Society Meeting #231, id. 339.07 (Chambliss Astronomy Achievement Student Award Winner)
6. **E. H. Nunez**, N. Bassett, S. Deam, D. Dixon, E. Griffith, W. Harvey, D. Lee, B. Lyke, R. Parziale, C. Witherspoon, A. Myers, J. FIndlay, H. Kobulnicky, and D. Dale. *New quasar surveys with WIRO: Searching for high redshift ($z \sim 6$) quasar candidates*. 2017, American Astronomical Society #229, id.250.07

PUBLICATIONS

Lead Author

1. **E. H. Nunez**, C. C. Steidel, E. N. Kirby, G. C. Rudie, N. Z. Prusinski, Y.. Chen, Z. Zhuang, A. Strom, D. K. Erb, M. Pettini,. *KBSS-InCLOSE II; Design and First Results from the Inner CGM of QSO Line of Sight Emitting Galaxies at $z \sim 2-3$* . 2024, To be submitted winter 2024.
2. **E. H. Nunez**, C. C. Steidel, E. N. Kirby, G. C. Rudie, N. Z. Prusinski, Y.. Chen, Z. Zhuang, A. Strom, D. K. Erb, M. Pettini, L. A. Welsh, D. Rupke, R. Cooke. *KBSS-InCLOSE I; Design and First Results from the Inner CGM of QSO Line of Sight Emitting Galaxies at $z \sim 2-3$* . 2024, Accepted to Astrophysical Journal.

3. **E. H. Nunez**, E. N. Kirby, C. C. Steidel. *Empirical Constraints on Core Collapse Supernovae Yields using Very Metal Poor Damped Lyman Alpha Absorbers*. 2022, *Astrophysical Journal*, 927, 64.
4. **E. H. Nunez**, M.S. Povich, B. A. Binder, L. K. Townsley, and P. S. Broos. *Characterizing the X-ray Emission of Intermediate-Mass Pre-Main-Sequence Stars*. 2021, *AJ*, 162, 153

Co-Author

1. Zhuyun Zhuang; Evan N. Kirby; Charles C. Steidel; Mithi A. C. de los Reyes; Nikolaus Z. Prusinski; N. Leethochawalit; Minjung Park; Charlie Conroy; Evan H. Nuñez. *Metals in Star-forming Galaxies with KCWI. I. Methodology and First Results on the Abundances of Iron, Magnesium, and Oxygen*. 2024, *ApJ*, 972, 182
2. M. A. C. de los Reyes, E. N. Kirby, A. Ji, **E. H. Nunez**. *Simultaneous Constraints on the Star Formation History and Nucleosynthesis of Sculptor dSph*. Accepted to *ApJ* (Fall 2021).
3. Wang et al. (**E. H. Nunez** 25th author). *Exploring Reionization-Era Quasars III: Discovery of 16 Quasars at $6.4 < z < 6.9$ with DESI Legacy Imaging Surveys and UKIRT Hemisphere Survey and Quasar Luminosity Function at $z \sim 6.7$* . 2019, *ApJ*, 884, 30.
4. M. S. Povich, J. S. Maldonado, **E. H. Nunez**, and T. Robitaille. *The Duration of Star Formation In Galactic Giant Molecular Clouds. I. The Great Nebula in Carina*. 2019, *ApJ*, 881, 37.