



Arianna S. Long

CONTACT	 arianna.long@uci.edu  ariannalong.space ORCID: 0000-0002-7530-8857	
RESEARCH INTERESTS	Submillimeter galaxies, galaxy (proto)cluster formation, massive galaxy evolution, infrared astronomy	
EDUCATION	University of California – Irvine, CA PhD in Physics & Astronomy Advisor: A. Cooray	<i>September 2017 - Expected 2022</i>
	California State University – Los Angeles, CA M.S. in Physics & Astronomy Thesis: Infrared Investigations of Star Formation Suppression in X-Ray Selected Active Galactic Nuclei Advisors: S. Terebey & A. Cooray	<i>August 2015 - May 2017</i>
	Towson University, MD B.S. in Applied Mathematics, Minor Computer Science	<i>September 2010 - May 2014</i>
EMPLOYMENT	Graduate Student Researcher, UCI Graduate Student Lead/Mentor, UCI SURF Program Graduate Student Researcher, UCI Competitive Edge Program Visiting Graduate Researcher, UCI Summer Internship Program Graduate Student Researcher, CSULA Business Analytics Consultant, ZS Associates - Thousand Oaks Undergraduate Researcher, TU Applied Mathematics Lab	<i>September 2017 - Summer 2019 Summer 2017 Summer 2016 2015-2017 2014-2015 2012-2013</i>
AWARDS, GRANTS & FELLOWSHIPS	AAS National Osterbrock Leadership Program Grant, \$48k UCI School of Physical Sciences: Women in Natural Sciences Award Nomination: UCI's Most Promising Future Faculty Award UCI Physics & Astronomy: Outstanding Contributions to the Department UCI Tom Angell Fellowship for Excellence in Mentorship Honorable Mention: Ford Foundation Predoctoral Fellowship UCI Eugene Cota-Robles Graduate Fellowship Honorary Fellow: UCI-NSF Machine Learning & Physical Sciences Program UCI Doctoral Diversity Fellowship Travel Grant: TMT Future Science and Technology Leaders Workshop Travel Grant: Women in Astronomy IV Cal State L.A. Emeriti Association Fellowship NASA DIRECT-STEM Scholarship Program & Research Internship Computing, Sciences, And Mathematics in College Scholars Scholarship	<i>2020 2020 2020 2019 2019 2019 2017-2022 2017-2019 2017 Aug 2017 June 2017 2016-2017 2015-2017 2012-2014</i>
OBSERVING EXPERIENCE	ALMA Observatory: 25h, Cycle 7 2019.1.01257.S (Co-I) W.M. Keck Observatory: NIRC2 LGS/AO, 2 nights <i>Hubble Space Telescope</i> : 8 orbits, Cycle 25 GO-15464, \$64.3k (PI) W.M. Keck Observatory: NIRC2 LGS/AO, 1 night	<i>2019 Sem 2019B 2018 Sem 2017A</i>
PUBLICATIONS	Champagne, J., et al. incl. Long, Arianna S. 2020. <i>Revisiting the Highest Redshift Galaxy Cluster Core at $z = 2.5$: New Insights from the VLA and ALMA</i> . ApJ, in press Lambrides, E, et al. incl. Long, Arianna S. , 2020. <i>Merger or Not : Quantifying Human Biases in Identifying Galactic Merger Signatures</i> . ApJ, in press	

Zavala, J, et al. incl. **Long, Arianna S.** 2020, *The Evolution of the IR Luminosity Function and Dust-obscured Star Formation in the Last 13 Billion Years*. ApJ, in press

Long, Arianna, et al. 2020, *Emergence of an Ultra-Red, Ultra-Massive Galaxy Cluster Core at $z = 4$* . [ApJ, 898, 133L](#)

Ma, J., Cooray, A., Nayyeri, H., **Brown, Arianna S.**, et al. 2019, *Spitzer Catalog of Herschel-Selected Ultrared Dusty, Star-Forming Galaxies*. [ApJS, 244, 30](#)

Brown, Arianna S., et al. 2019, *Infrared Contributions of X-Ray Selected Active Galactic Nuclei in Dusty Star-Forming Galaxies*. [ApJ, 871, 87](#)

Ma, J., **Brown, Arianna S.**, et al. 2018, *SOFIA/HAWC+ Detection Of A Gravitationally Lensed Starburst Galaxy at $z = 1.03$* . [ApJ, 864, 60](#)

PROFESSIONAL TALKS	* = invited, all talks unless otherwise noted	
	*UW Madison Astronomy Seminar	May 2021
	*Harvard CfA Galaxy Cluster Seminar	Apr 2021
	National Society of Black Physicists	Nov 2020
	*UC Berkeley Astronomy Lunch Seminar	Oct 2020
	*Protoclusters: Galaxies in Confinement Workshop	Sept 2020
	NOAO Dusting the Universe Conference (poster)	Mar 2019
	UCI Reines Lecturer Student Seminar	Mar 2019
	UCI-NSF Machine Learning and Physical Sciences Annual Conference	June 2018
	NASA DIRECT-STEM Annual Conference	May 2018
	UCI Summer Research Symposium (talk)	Aug 2017
	*MIRO Principal Investigator Meeting (poster)	May 2017
	CSU Statewide Student Research Competition	Apr 2017
	CSULA Annual Student Research Symposium (1st place)	Feb 2017
	229th AAS Meeting (poster)	Jan 2017
	Satellites & Education Conference XXIX	Aug 2016
	228th AAS Meeting (poster)	June 2016
	CSU Statewide Student Research Competition	Apr 2016
	CSULA Annual Student Research Symposium (1st place)	Feb 2016

ADVISING, DEI & SERVICE	Advising:
	Amy Ralston (UCI grad, 2020-present)
	LeAnn Liu (UCI undergrad, 2020-present)
	Alyssa Chen (UCI undergrad, 2020-present)
	Hunter Connors (UCI undergrad, 2019-2020)

Diversity, Equity, & Inclusion:	* = invited
*Workshop - APS National Mentoring Community Conference	Feb 2021
Workshop Title:	<i>Building a Mentor Network for Intersectional Identities</i>
*Writer & Panelist - #VanguardSTEM National Mentoring Month	Jan 2021
*Workshop - UCI LEADS Undergraduate Program	Oct 2020
Workshop Title:	<i>Methods for Mitigating Imposter Syndrome</i>
*Workshop - UCI Competitive Edge Graduate Student Program	Aug 2020
Workshop Title:	<i>Building A Mentor Network</i>
UCI Inclusive Excellence Inaugural Cohort Certificate Program	Aug 2020
*Workshop - APS National Mentoring Community Conference	Feb 2020
Workshop Title:	<i>Departmental Inclusivity Resources</i>
Lead & Panelist - APS/UCI Conference for Undergraduate Women in Physics	Jan 2020
Poster Presentation - Inclusive Astronomy 2 Conference	Oct 2019
Graduate Student Rep - UCI P&A Inclusive Excellence Committee	2018-2020
Graduate Student Rep - UCI P&A Graduate Admissions Task Force	2018-2020
Co-Founder - UCI Physics & Astronomy Community Excellence	2018-∞
A multifaceted peer mentoring program for undergrads, grads, and postdocs.	
We're funded now! Website: uci-pace.github.io	

Service:

LOC Member - APS/UCI Conference for Undergraduate Women in Physics *Jan 2020*
Professional Development Chair & Facilitator - UCI Physics Grad Caucus *2017-2019*
Co-I & Community Discussion Lead - UCSC Osterbrock Sierra Conference *2017-2018*

TEACHING &
OUTREACH

Scientific American - Featured Article *Jan 2021*
 Title: Ancient Galaxy Clusters Offer Clues about the Early Universe
University of Kansas: Intro to Astronomy - Guest Speaker *Nov 2020*
UCI Physics 7LD / Electricity & Magnetism Teaching Assistant *2020*
ISEE PDP Pedagogy Program (*canceled due to COVID-19) *2020*
Contributing Writer - *MERCURY* by Astronomy Society of the Pacific *2019*
Invited Judge & Speaker - CSULA Annual Student Research Symposium *Feb 2018*
Graduate Panelist - CalBRIDGE Workshop *Feb 2018*
Co-Organizer & Co-Host - UCI Eclipse Party *Aug 2017*
Invited Keynote - Satellites & Education Conference XXX *July 2017*
Virtual Speaker - DreamWakers *2017-*
Classroom Speaker / Activity Lead - K-12 classrooms *2017-*
Physics II Curriculum Developer - Journal of Visualized Experiments *2016-2017*
Volunteer & Technical Instructor - Black Girls Code, Los Angeles *2016-2018*