

Rodrigo E. L. Córdoba Rosado

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EDUCATION	Princeton University , Princeton, New Jersey, USA	
	PhD in Astrophysical Sciences	2020 – <i>Present</i>
	Anticipated Graduation Date: May 2025	
	University of Cambridge , Cambridge, Cambridgeshire, UK	
	MPhil in Archaeology of the Americas	2019 – 2020
	Dissertation: “New Approaches to the Archaeoastronomy of Chaco Canyon”	
	Harvard University , Cambridge, Massachusetts, USA	
	<i>Cum Laude</i> Joint A.B. in Astrophysics-Physics	2015 – 2019
	Secondary in Archaeology	
PROFESSIONAL APPOINTMENTS	Graduate Assistant in Instruction	
	Department of Astrophysical Sciences, Princeton University	2021 – <i>Present</i>
	Resident Graduate Student	
	Forbes College, Princeton University	2021 – <i>Present</i>
	Graduate Teaching Fellow	
	Princeton University Preparatory Program (PUPP)	2020 – <i>Present</i>
	Gates Cambridge Scholar	
	University of Cambridge	2019 – 2020
	SAO Intern	
	Smithsonian Astrophysical Observatory, Harvard University	2017 – 2018
	Clay Telescope Observer - Group Leader	
	Center for Astrophysics Harvard & Smithsonian	2016 – 2019
HONORS & AWARDS	Affiliated Student - Banneker Institute	
	Center for Astrophysics Harvard & Smithsonian	2016 – 2016
	Tutor - Bureau of Study Counsel	
	Harvard University	2016 – 2019
	Princeton Graduate Scholars Program (GSP)	2020
	President’s Fellowship - Princeton University Graduate School	2020
	2020 Breakthrough Prize in Fundamental Physics Co-Recipient (EHT)	2019
	Gates Cambridge Scholarship	2019
	Caltech Summer Undergraduate Research Fellowship	2018
	Harvard College Research Program Summer Research Fellowship	2017 & 2016
SELECTED RESEARCH EXPERIENCE	Eagle Scout	2012
	Department of Astrophysical Sciences , Princeton University	
	Semester Project	Jan 2021- <i>Present</i>
	Project: <i>Clustering Analysis of Obscured and Unobscured AGN in HSC</i>	
	Supervisors: Dr. Jenny Greene, Dr. Andrew Goulding	
	Semester Project	Aug 2020- <i>Present</i>
	Project: <i>Power Spectrum Analysis of Interstellar Dust in ACT Data</i>	
	Supervisors: Dr. Susan Clark, and Dr. Brandon Hensley	
	<i>Paper in prep.</i>	
	Center for Astrophysics Harvard & Smithsonian , Harvard University	
	Astrophysics Senior Thesis Project	2018 – 2019
	Project: <i>Cosmic Dawn Tomography: Lyα Power Spectrum Analysis</i>	
	Supervisors: Dr. Lincoln Greenhill, and Dr. Hugh Garsden	
	Astrophysics Laboratory Research Project	Mar 2018- May 2018

Project: *Observations of the CMB with 11GHz and 30GHz Radiometers*

Supervisors: Dr. John Kovac

Research Project

May 2017- Jun 2018

Project: *Joint meteorological statistics of observing sites for the Event Horizon Telescope*

Supervisors: Dr. Sheperd Doeleman, Dr. Michael Johnson, and Dr. Scott Paine

Junior Research Tutorial Project

Aug 2017- Dec 2017

Project: *Mapping Galaxy Clusters with Luminous Red Galaxy Measurements*

Supervisors: Dr. Daniel Eisenstein

Jet Propulsion Laboratory (JPL), California Institute of Technology

Caltech SURF Research Project

Jun 2018- Aug 2018

Project: *Measuring Galaxy Redshifts for the Dark Energy Survey: Redshift Color Maps and Tomographic Analysis of Cosmic Shear*

Supervisors: Dr. Daniel Masters and Dr. Jason Rhodes

SELECTED PUBLICATIONS

PAPERS

Córdova Rosado, R.; Hensley, B.; Clark, S.; Duivenvoorden, A.; et al. “The Atacama Cosmology Telescope: Small Scale Structure of Galactic Dust Emission and Magnetic Fields”, *In preparation*

Raymond, A.; Palumbo, D.; Paine, S.; Blackburn, L. **Córdova Rosado, R.**; Doeleman, S; et al., “Evaluation of New Submillimeter VLBI Sites for the Event Horizon Telescope,” *The Astrophysical Journal, Supplemental Series* Feb 2021. Accessible at <https://iopscience.iop.org/article/10.3847/1538-3881/abc3c3>

Event Horizon Telescope Collaboration **et al.**, “First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole,” *The Astrophysical Journal Letters* Apr 2019. Accessible at <https://iopscience.iop.org/article/10.3847/2041-8213/ab0ec7/meta>

Event Horizon Telescope Collaboration **et al.**, “First M87 Event Horizon Telescope Results. II. Array and Instrumentation,” *The Astrophysical Journal Letters* Apr 2019. Accessible at <https://iopscience.iop.org/article/10.3847/2041-8213/ab0c96>

CONFERENCE POSTERS

Córdova Rosado, R.; Masters, D.; Rhodes, J.; “Constraints on the Dark Energy Survey’s Photometric Galaxy Redshifts,” at the *233rd American Astronomical Society Meeting*, Seattle, Washington, USA, Jan 2019. Online Poster: <https://goo.gl/1ZosGD>

Córdova Rosado, R.; et al., “Joint Meteorological Statistics of Observing Sites for the Event Horizon Telescope,” at the *231st American Astronomical Society Meeting*, Washington, D.C., USA, Jan 2018. Press Discussion: <https://goo.gl/awSb7S>

DATA RELEASES

Bieryla, A.; Carmichael, T; Challis, P.; **Cordova, R.**; Finkbeiner, D.; Gilchrist, R.; Komorowski, E.; Alonso-Monsalve, E. “spectral ID of supernova AT2017cfb ” 2017. <http://www.astronomerstelegam.org/?read=10178>

Cordova, R.; Cummins, K. “Transit Observation of HAT-P-37-b ” 2016. <http://var2.astro.cz/tresca/transit-detail.php?id=1461173881>

SERVICE APPOINTMENTS

Climate Committee, Princeton Department of Astrophysical Sciences

Graduate Student Representative

2021 – Present

Graduate Student Committee, Princeton Department of Astrophysical Sciences

Graduate Student Representative

2020 – Present

Advisory Group to the Diversity and Inclusion National Committee, Boy Scouts of America

Founding Member

2020 – Present

Camp Guajataka Summer Program, San Sebastián, Puerto Rico

Archaeology Instructor

2020

Gates Scholars’ Sustainability Working Group, University of Cambridge

External Action Group Leader

2019 – 2020

Student Astronomers of Harvard-Radcliffe (STahr) , Harvard University	
President	2018 – 2019
Harvard College Astrophysical Society , Harvard University	
Co-President	2017 – 2018
Harvard Archery Team , Harvard University	
President/ USA Archery Level 2 Instructor	2016 – 2018

PRESENTATIONS SCIENCE TALKS

Dissertation Presentation	
<i>Department of Archaeology, University of Cambridge</i>	Mar 2020
Senior Thesis Presentation	
<i>Center for Astrophysics Harvard & Smithsonian</i>	Apr 2019
JPL Astrophysics Summer Intern Colloquium	
<i>Jet Propulsion Laboratory, California Institute of Technology</i>	Aug 2018
Astrophysics Laboratory Research Presentation	
<i>Center for Astrophysics Harvard & Smithsonian</i>	Apr 2018
Junior Thesis Presentation	
<i>Center for Astrophysics Harvard & Smithsonian</i>	Dec 2017

PUBLIC TALKS

Astronomía y la Arqueoastronomía	
<i>STEAM Teaching at Arecibo Academy, Arecibo Observatory, Puerto Rico</i>	Mar 2021 & 2022, Oct 2022
La Historia de Día de los Muertos	
<i>Day of the Dead Event, Office of Access, Diversity & Inclusion, Princeton University</i>	Nov 2021
Astronomía como Carrera Científica	
<i>Centro CRECE, San Juan, Puerto Rico</i>	Nov 2021
Student Observing Night and Presentation	
<i>Forbes College, Princeton University</i>	Sep 2021
Cosmología Moderna	
<i>STEAM Teaching at Arecibo (STAR) Academy, Arecibo Observatory, Puerto Rico</i>	May 2021
Archaeoastronomy of the American Southwest	
<i>Internal Symposium, Sidney Sussex College, Cambridge, UK</i>	Feb 2020
The Archaeoastronomy of Chaco Canyon	
<i>Internal Symposium, Gates Cambridge Scholars, University of Cambridge</i>	Feb 2020
La Primera Sombra de un Hoyo Negro	
<i>Colegio San Ignacio de Loyola, San Juan, Puerto Rico</i>	Sep 2019
Public Observing Night with PBHA Mission Hill Afterschool Program	
<i>Loomis-Michael Observatory, Harvard University</i>	Mar 2019
Eclipse Solar 2017	
<i>Colegio San Ignacio de Loyola, San Juan, Puerto Rico</i>	Aug 2017

LANGUAGES

Spanish & English: Bilingual.
Ancient Greek: Intermediate (reading); basic (speaking, writing).

SKILLS

Python, Linux/Unix, L^AT_EX, MATLAB, Mathematica, C, Adobe Lightroom, Microsoft Office Suite