

CONTACT INFORMATION	<p>Department of Physics, UPR Río Piedras 17 Ave. Universidad Ste. 1701 San Juan, PR 00925-2537</p> <p>Cell Phone: +1-787-446-7551 E-mail: kevin.ortiz22@upr.edu</p>
EDUCATION	<p>Bachelor of Science in Physics with a second concentration in Philosophy <i>In Progress</i> University of Puerto Rico Río Piedras Campus, San Juan, Puerto Rico</p> <ul style="list-style-type: none"> Visiting student at Brown University for the academic year of 2017-2018 <p>High School Diploma (with High Honors) 2016 Escuela Secundaria de la Universidad de Puerto Rico (UHS), San Juan, Puerto Rico</p>
ADDITIONAL EDUCATION	<p>NASA L'SPACE Virtual Academies Spring, Fall 2019 Mission Concept Academy and NASA Proposal Writing and Evaluation Experience</p>
RESEARCH POSITIONS	<p>Astrophysics Undergraduate Researcher Jun 2019 to <i>present</i> Bancker Institute, Center for Astrophysics Harvard & Smithsonian</p> <ul style="list-style-type: none"> Programming dynamical simulations of exoplanetary systems using Python and REBOUND, and analyzing <i>Kepler</i> light curves for grazing transits and transit timing variations. Working on identifying origin of transit timing variations from simulation results. <p>Fellow in Philosophy and Theory of Astrophysics May 2019 to <i>present</i> Mellon-Mays Undergraduate Fellowship, University of Puerto Rico Río Piedras Campus</p> <ul style="list-style-type: none"> Exploring data-generation in interferometry through epistemological analysis, constructing a corresponding data model, and studying astronomical image-making to inform how we communicate its results. <p>Researcher in Radio Astronomy May 2018 to <i>present</i> Planetary Habitability Laboratory, University of Puerto Rico at Arecibo</p> <ul style="list-style-type: none"> In charge of preparing & submitting observing proposals, running observations, reducing and analyzing data (IDL & Python), and working with the educational component of incorporating students into observations and communicating the PHL's research.
MISSION DEVELOPMENT EXPERIENCE	<p>Team Mechanical Engineer & Scientist Aug 2019 to <i>present</i> RockSat-X Project, University of Puerto Rico Río Piedras Campus</p> <ul style="list-style-type: none"> Working on the Astrogenomics Sequencing at the Karman Line (ASK-L) sounding rocket experiment, from initial design to eventual launch. <p>Team Scientist & Operations Officer Jan 2019 to May 2019 L'SPACE Undergraduate Mission Concept Academy, NASA</p> <ul style="list-style-type: none"> Worked on a Preliminary Design Review for the Spectral Electromagnetic Exploration Rover. Conducted research & designed the mission experiment & data acquisition.
AREAS OF SPECIALIZATION	<p><i>Planetary, Exoplanetary, and Observational Astrophysics</i>, with a particular focus on radio astronomical studies of solar system bodies and exoplanetary systems; potential radio detections of exoplanets; observational astrobiology and exoplanet characterization; radio interferometry; and multiwavelength observational astrophysics.</p> <p><i>Philosophy and Theory of Science and Astrophysics</i>, with a particular focus on the epistemology of data generation in observational astrophysics; models of data in radio and optical interferometric methods; image-making in astronomy; as well as an interest for the ethics of astronomy and land.</p>

AWARDED TELESCOPE TIME	<p>Submillimeter Array Interferometry School Program (2020): <i>Observing 3C 346 with the Submillimeter Array</i> Special Program, 2020 School. Principal Investigator: K. Ortiz Ceballos. Allocated 3 hours.</p> <p>Arecibo Observatory Director's Discretionary Time Urgent Proposal (2019): <i>Observing the 18 cm OH radical line in interstellar comet C/2019 Q4 (Borisov)</i> Project A3390. Principal Investigator: K. Ortiz Ceballos. Allocated 12 hours.</p> <p>Arecibo Observatory Spring Semester (2019, as Co-Investigator): <i>Radio Emissions from Dwarf Stars with Planets IV</i> Project A3123. Principal Investigator: A. Méndez. Allocated 24 hours.</p>																		
RESEARCH AWARDS	<p>USRA Distinguished Undergraduate Scholarship \$5k</p> <p>Mellon-Mays Undergraduate Fellowship \$36k Awarded to fund philosophy and theory of astrophysics work at the Department of Philosophy. Hosted at the University of Puerto Rico, Río Piedras Campus, 2019-2021.</p> <p>Louis Stokes Alliance for Minority Participation Award \$2.5k Awarded to fund radio astronomy work at the Planetary Habitability Laboratory. Hosted at the University of Puerto Rico at Arecibo, 2019-2020.</p> <p>Puerto Rico Space Grant Consortium NASA Fellowship \$10k Awarded to fund radio astronomy work at the Planetary Habitability Laboratory. Hosted at the University of Puerto Rico at Arecibo, 2018-2019.</p>																		
OTHER AWARDS	<p>First Billion Years: Habitability Conference Travel Award \$2.5k, funded by USRA 50th Lunar and Planetary Science Conference Travel Award \$2.5k, funded by PRSGC United Nations Academic Impact Millennium Fellowship Honor Studies Program, University of Puerto Rico Río Piedras Campus Dean's List, University of Puerto Rico Río Piedras Campus</p>																		
TECHNICAL SKILLS	<p>Astronomy: Radio telescope operation and observation planning, on-site and remotely; astronomical spectroscopy and general radio astronomical data reduction. Programming & Analysis: Python, IDL, shell scripting. DS9, Astropy. Other Software: Autodesk Inventor, JMARS, L^AT_EX, Adobe Photoshop, Premiere & Lightroom OS: macOS, Unix, Linux, Windows</p>																		
UNIVERSITY SERVICE	<table> <tr> <td>Alt. Representative to the Board of Graduate Studies and Research</td> <td>Sep 2019 to <i>present</i></td> </tr> <tr> <td>Academic Senator for the Faculty of Natural Sciences, UPRRP</td> <td>Sep 2018 to Sep 2019</td> </tr> <tr> <td>Spokesperson for the Senate Student Caucus</td> <td>Apr 2019 to Sep 2019</td> </tr> <tr> <td>Representative, Natural Sciences Student Council, UPRRP</td> <td>Sep 2018 to Sep 2019</td> </tr> <tr> <td>President, Academic Issues and Orientation Committee</td> <td></td> </tr> <tr> <td>Member, Law and Regulation Committee</td> <td></td> </tr> <tr> <td>Representative, General Student Council, UPRRP</td> <td>Sep 2018 to Sep 2019</td> </tr> <tr> <td>Member, Gender & Equity Issues Committee</td> <td></td> </tr> <tr> <td>UPRRP Rep. to the National Student Confederation of Puerto Rico</td> <td>Sep 2018 to Apr 2019</td> </tr> </table>	Alt. Representative to the Board of Graduate Studies and Research	Sep 2019 to <i>present</i>	Academic Senator for the Faculty of Natural Sciences, UPRRP	Sep 2018 to Sep 2019	Spokesperson for the Senate Student Caucus	Apr 2019 to Sep 2019	Representative, Natural Sciences Student Council, UPRRP	Sep 2018 to Sep 2019	President, Academic Issues and Orientation Committee		Member, Law and Regulation Committee		Representative, General Student Council, UPRRP	Sep 2018 to Sep 2019	Member, Gender & Equity Issues Committee		UPRRP Rep. to the National Student Confederation of Puerto Rico	Sep 2018 to Apr 2019
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SCIENCE POLICY OUTREACH	<p>Science Policy Ambassador for the Puerto Rico Science Policy Action Network (PR-SPAN)</p> <ul style="list-style-type: none"> As Ambassador of PR-SPAN, in charge of informing the development and implementation of federal, state and local policies based on scientific evidence. Specific tasks include editing of PR-SPAN newsletter and materials, assistance in event organizing, and advocating directly to federal and state legislatures and policymakers. 																		

EDUCATION & PUBLIC OUTREACH	<ul style="list-style-type: none"> • Vicepresident of the Circle of University Astrobiology, UPRRP. Fall 2019. • Helped bring over 40 students and community members to take part in on-site observations at the Arecibo Observatory. 2019. • Algebra tutor for 9th graders at Hope High School in Providence, RI as part of the STEMS Program at Brown University. Spring 2018. • Co-founded and co-directed Multi-faith Organizing for College Hill Activism (MOCHA) at Brown University. Spring 2018. • Calculus I, II & III voluntary tutor at the Faculty of Natural Sciences, UPRRP. 2017.
TALKS & PRESENTATIONS	<ul style="list-style-type: none"> • <i>"What's In a Picture of a Shadow? Looking at a Black Hole"</i> Oral Presentation. MMUF Southeastern Regional Conference. Houston, Texas, 2019 • <i>"What's In a Picture of a Shadow? Looking at a Black Hole"</i> Oral Presentation. 12th Knowledge Cities World Summit. Florianópolis, Brasil, 2019 • <i>"Arecibo REDS: The Stellar Activity of Stars with Potentially Habitable Planets"</i> Poster. FBY: Habitability Conference. Big Sky, Montana, 2019 • <i>"Trojan Asteroids Near the Orbit of Jupiter"</i> Invited Outreach Talk. Puerto Rico Astronomy Society. San Juan, Puerto Rico, 2019 • <i>"Arecibo Radio Emissions from Dwarf Stars with Potentially Habitable Planets"</i> Oral Presentation. 53rd JTM / 38th PRISM Meeting, Mayagüez, Puerto Rico, 2019 • <i>"Arecibo REDS: The Stellar Activity of Stars with Potentially Habitable Planets"</i> Poster. 50th Lunar and Planetary Science Conference, The Woodlands, Texas, 2019 • <i>"Arecibo REDS: Radio Emissions from Red Dwarf Stars with Planets"</i> Oral Presentation. XVII Physics & Chemistry Forum, UPR Arecibo, Puerto Rico, 2018 • <i>"String Theory: Towards a New Paradigm Beyond Falsifiability?"</i> Oral Presentation. 1st Philosophy Symposium, PCUPR, Ponce, Puerto Rico, 2018
PROFESSIONAL MEMBERSHIPS	<p>American Astronomical Society Undergraduate Member Puerto Rico Astronomy Society Student Member Society of Physics Students National Member UPRRP Philosophy Students Association</p>
BIOGRAPHICAL INFORMATION	<p>Citizenship: United States of America Languages: Fluent in English and Spanish. Experienced as Spanish-English interpreter.</p>