

CONTACT INFORMATION	<b>Planetary Habitability Laboratory</b> University of Puerto Rico at Arecibo Arecibo, PR 00614	Website: <a href="http://kevinortizceballos.com">kevinortizceballos.com</a> Cell Phone: +1-787-446-7551 E-mail: <a href="mailto:kevin.ortiz22@upr.edu">kevin.ortiz22@upr.edu</a>
EDUCATION	<b>Bachelor of Science in Physics with a second concentration in Philosophy</b> <i>In Progress</i> University of Puerto Rico Río Piedras Campus, San Juan, Puerto Rico <ul style="list-style-type: none"> <li>• Visiting student at Brown University for the academic year of 2017-2018</li> </ul> <b>High School Diploma</b> (with High Honors) 2016 Escuela Secundaria de la Universidad de Puerto Rico (UHS), San Juan, Puerto Rico	
RESEARCH POSITIONS	<b>Astronomy Researcher</b> May 2018 to <i>present</i> <b>Planetary Habitability Laboratory</b> , University of Puerto Rico at Arecibo <ul style="list-style-type: none"> <li>• In charge of preparing observing proposals, running observations, analyzing data (IDL &amp; Python), incorporating students into observations and communicating PHL research.</li> <li>• Leading the project investigating OH emission in interstellar comet 2I/Borisov with the Arecibo Observatory. Collaborating in Arecibo REDS, a campaign studying radio flares from stars with habitable planets. Also contributing to theory projects studying objects in open orbits and habitability models.</li> </ul> <b>Astronomy Research Intern</b> Jun 2020 to Jul 2020 <b>Space Telescope Science Institute</b> <ul style="list-style-type: none"> <li>• Worked with Hubble Space Telescope and TESS data to develop pixel-level decorrelation techniques for improving detections of exoplanet atmospheres using Python.</li> </ul> <b>Astrophysics Undergraduate Researcher</b> Jun 2019 to Aug 2019 <b>Banneker Institute</b> , Center for Astrophysics   Harvard & Smithsonian <ul style="list-style-type: none"> <li>• Programmed dynamical simulations of exoplanetary systems using Python and REBOUND. Identified origin of transit timing variations from simulation results.</li> </ul>	
PROFESSIONAL EXPERIENCE	<b>Submillimeter Array 2020 Interferometry School Member</b> Jan 2020 <b>Submillimeter Array</b> , Smithsonian Astrophysical Observatory	
	<b>Student Computer Engineer &amp; Team Scientist</b> Aug 2019 to May 2020 <b>RockSat-X Project</b> , University of Puerto Rico	
	<b>NASA Proposal Writing and Evaluation Experience Student</b> Aug 2019 to Dec 2019 <b>Lucy Student Pipeline Accelerator and Competency Enabler (L'SPACE)</b> , NASA	
	<b>Team Scientist &amp; Operations Officer</b> , Mission Concept Academy Jan 2019 to May 2019 <b>Lucy Student Pipeline Accelerator and Competency Enabler (L'SPACE)</b> , NASA	
HONORS & AWARDS (SELECTED)	Barry Goldwater Scholarship 2020 USRA Distinguished Undergraduate Scholarship 2019 Mellon-Mays Undergraduate Fellowship 2019-2021 Puerto Rico Louis Stokes Alliance for Minority Participation Award 2019-2021 Puerto Rico Space Grant Consortium NASA Fellowship 2018-2019	
RESEARCH INTERESTS	<i>Planetary, Exoplanetary, and Observational Astrophysics.</i> Exoplanet characterization and transmission spectroscopy, radio observations of Solar System bodies and exoplanetary systems; and multiwavelength observational astrophysics.	

AWARDED TELESCOPE TIME	<p><b>PI</b> Arecibo Observatory, Fall 2019 DDT, "Observing the 18 cm OH radical line in interstellar comet C/2019 Q4 (Borisov)" Project A3390, 12 hours.</p> <p><b>Co-I</b> Arecibo Observatory, Fall 2020, "Radio Emissions from Dwarf Stars with Planets VI" Project A3123, 40 hours, PI: A. Méndez.</p> <p><b>Co-I</b> Arecibo Observatory, Spring 2020, "Radio Emissions from Dwarf Stars with Planets V" Project A3123, 12.75 hours, PI: A. Méndez.</p> <p><b>Co-I</b> Arecibo Observatory, Spring 2019, "Radio Emissions from Dwarf Stars with Planets IV" Project A3123, 16 hours, PI: A. Méndez.</p>	
TELESCOPE EXPERIENCE	<p><b>Hubble Space Telescope</b> Experience with data reduction and analysis of exoplanet transit data using WFC3 and STIS.</p> <p><b>Transiting Exoplanet Survey Satellite (TESS)</b> Experience with data reduction and analysis of exoplanet transits from raw datasets.</p> <p><b>Submillimeter Array</b> Substantial experience scripting observations, calibrating with MIR and imaging with CASA.</p> <p><b>Arecibo Observatory</b> Extensive experience successfully proposing and planning for focused and large programs. Skilled in remote and on-site telescope operation, data reduction, analysis and visualization.</p>	
TECHNICAL SKILLS	<p><b>Programming &amp; Analysis:</b> Skilled with analysis software such as DS9, Astropy, NumPy, SciPy, MIR, CASA, and Arecibo Mock Spectrometer software.</p> <ul style="list-style-type: none"> <li>• <b>Python:</b> Intermediate, advanced for astronomy applications.</li> <li>• <b>IDL:</b> Beginner to intermediate</li> </ul> <p><b>Other Software Programs &amp; Skills:</b> Autodesk Inventor, JMARS, L<sup>A</sup>T<sub>E</sub>X, Adobe Photoshop, Premiere &amp; Lightroom. macOS, Unix, Linux, Windows.</p>	
SCIENCE POLICY LEADERSHIP & OUTREACH	<p><b>Science Policy Ambassador</b> <a href="#">Puerto Rico Science Policy Action Network (PR-SPAN)</a></p> <p><b>AAS Congressional Visit Day Volunteer 2020</b> <a href="#">American Astronomical Society</a></p>	<p>Feb 2019 to <i>Present</i></p> <p>Sep 2020</p>
EDUCATION & OUTREACH (SELECTED)	<p><b>Circle of University Astrobiology - UPR Río Piedras</b>, Vice President 2019 to <i>present</i> Organization for students interested in astrobiology. As Vice President, have helped organize events and a historical restoration project with Puerto Rico's first observatory.</p> <ul style="list-style-type: none"> <li>• <b>Media Appearance:</b> <a href="#">"Long-lost astronomy observatory in Puerto Rico rediscovered by university students"</a>, article by Doris Elin Urrutia for <a href="#">Space.com</a>.</li> </ul> <p><b>PHL Outreach Program</b>, Observer and Presenter 2018 to <i>present</i> Have helped bring over 50 students and community members to on-site observations at the Arecibo Observatory, as well as take part in the Lab's outreach and media efforts.</p> <ul style="list-style-type: none"> <li>• <b>Media Appearance:</b> <a href="#">"Ciencia y Meteorología: Reconocen a jóvenes por sus investigaciones"</a>, outreach interview for Noticentro morning news segment in December 2019.</li> </ul> <p><b>Swearer Tutoring Enrichment in Math and Science (STEMS) Program</b>, Tutor 2018 Algebra tutor for 9th graders as part of the <a href="#">STEMS Program</a> at Brown University.</p> <p><b>Volunteer Calculus I, II &amp; III Tutor at UPRRP</b> 2017</p>	
LEADERSHIP & UNIVERSITY SERVICE	<p><b>Academic Senator for the Faculty of Natural Sciences</b></p> <p><b>Natural Sciences Student Council Representative</b></p> <p><b>General Student Council Representative</b></p> <p><b>Representative, National Student Confederation of Puerto Rico</b></p>	<p>Sep 2018 to Sep 2019</p> <p>Sep 2018 to Sep 2019</p> <p>Sep 2018 to Sep 2019</p> <p>Sep 2018 to Apr 2019</p>

CONFERENCE ABSTRACTS	Oral session indicated by *. Long-form abstract indicated by †, PDF accessible with link.	
	[9]	2021. <b>Ortiz Ceballos, K.N.</b> <sup>*†</sup> , Colón Csaní, A.H., Howell, E.S., et al., <a href="#">Constraints on the Water-Production Rates of Interstellar Comet 2I/Borisov from Arecibo Radio OH Observations</a> . LPSC LII, 2582.
	[8]	2021. <b>Ortiz Ceballos, K.N.</b> <sup>*</sup> , Espinoza, N., <a href="#">Detecting Exoplanet Atmospheres Through Spectroscopic Pixel-Level Decorrelation (sPLD)</a> . AAS 237, Abs. #428.05.
	[7]	2020. <b>Ortiz Ceballos, K.N.</b> , Espinoza, N., <a href="#">Improving The Precision Of Exoplanet Atmospheric Detections Through Pixel-Level Decorrelation (PLD)</a> . SACNAS 2020, #67530.
	[6]	2020. <b>Ortiz Ceballos, K.N.</b> <sup>†</sup> , Howell, E.S., Méndez, A., et al., <a href="#">Observing Interstellar Comet 2I/Borisov for Radio OH Lines with the Arecibo Observatory</a> . LPSC LI, #3078.
	[5]	2020. <b>Ortiz Ceballos, K.N.</b> <sup>*</sup> , Pérez, J., <a href="#">Rediscovering the First Astronomical Observatory of Puerto Rico</a> . AAS 235, Abs. #139.05.
	[4]	2020. <b>Ortiz Ceballos, K.N.</b> , Quinn, S., Hadden, S., Yahalomi, D., Montet, B., <a href="#">N-body simulations of a warm Jupiter near resonance with a sub-Neptune</a> . AAS 235, Abs. #174.26.
	[3]	2020. Yahalomi, D.A., et al. including <b>Ortiz Ceballos, K.N.</b> , <a href="#">Discovery of a Warm Jupiter near Resonance with an Exterior sub-Neptune</a> . AAS 235, Abs. #174.23.
	[2]	2019. <b>Ortiz Ceballos, K.N.</b> <sup>†</sup> , Méndez, A., Zuluaga, J., et al., <a href="#">Arecibo REDS: The Stellar Activity of Stars with Potentially Habitable Planets</a> . First Billion Years: Hab., #1038.
	[1]	2019. <b>Ortiz Ceballos, K.N.</b> <sup>†</sup> , Méndez, A., Zuluaga, J., et al., <a href="#">Arecibo REDS: The Stellar Activity of Stars with Potentially Habitable Planets</a> . LPSC L, #3161.
MANUSCRIPTS & PUBLICATIONS	[3]	2020. <b>Ortiz Ceballos, K.N.</b> , Colón Csaní, A.H., Howell, E.S., Méndez, A., et al., <a href="#">Radio OH Observations of Interstellar Comet 2I/Borisov</a> . In preparation for a focus issue of <i>PSJ</i> .
	[2]	2020. Méndez et al. incl. <b>Ortiz Ceballos, K.N.</b> , <a href="#">Habitability Models for Astrobiology</a> . Accepted to <i>Astrobiology</i> .
	[1]	2020. Méndez et al. incl. <b>Ortiz Ceballos, K.N.</b> , <a href="#">Habitability Models for Planetary Sciences</a> . White Paper for the Planetary Science Decadal Survey 2023-2033. arXiv:2007.05491.
INVITED TALKS	2020	Seminar Series, Arecibo Observatory.
	2020	Planetary Sciences Seminar Series, University of Central Florida.
SELECTED PROFESSIONAL TALKS	2020	Space Telescope Science Institute, online due to COVID-19.
	2019	XVIII Physics & Chemistry Forum, UPR Arecibo, Puerto Rico.
	2019	Arecibo Observatory, Puerto Rico.
	2019	MMUF Southeastern Regional Conference. Houston, Texas.
	2019	12th Knowledge Cities World Summit. Florianópolis, Brasil.
	2019	Harvard-Smithsonian CfA, Cambridge, Massachusetts. ( <a href="#">Video recording</a> ).
	2019	Puerto Rico Astronomy Society. San Juan, Puerto Rico.
	2018	XVII Physics & Chemistry Forum, UPR Arecibo, Puerto Rico.
	2018	1st Philosophy Symposium, PCUPR, Ponce, Puerto Rico.
BIOGRAPHICAL INFORMATION	<p><b>Citizenship:</b> United States of America</p> <p><b>Languages:</b> Fluent in English and Spanish. Experienced as Spanish-English interpreter.</p> <p>An up-to-date PDF of this document with links is available at <a href="https://kevinortizceballos.com/Ortiz_Ceballos_CV.pdf">https://kevinortizceballos.com/Ortiz_Ceballos_CV.pdf</a></p>	