

Junellie Perez

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Keywords: exoplanet atmospheres, exoplanet plate tectonics, exoplanet interiors

EDUCATION

Johns Hopkins University - *Ph.D. in Earth & Planetary Sciences (2020 - PRESENT)*

Johns Hopkins University - *M.A. in Earth & Planetary Sciences (2020-2023)*

- **Relevant Coursework:** Planets, Life and the Universe, Exoplanets and their Atmospheres, Planetary Interiors, Planetary Atmospheres, Communication for Scientists, Planetary Seminar, Writing Grant and Contracts Proposals, Improving Presentations Skills for Graduate Students, Graduate Skills in Earth & Planetary Science, Academic Writing for the PhD

University of Maryland, College Park - *B.S. in Astronomy with a minor in Planetary Sciences (2014 - 2018)*

- **Relevant Coursework:** Introduction to Astrophysics I and II, Observational Astronomy, Astrophysics of Exoplanets, Special Projects in Astronomy, Theoretical Astrophysics, Calculus I, II, and III, Math Methods I and II, Introduction to Physics Lab, Experimental Physics I: Mechanics and Heat, Introductory Physics: Mechanics and Relativity/Fields/Waves, Modern Physics, Statistical Thermodynamics, Quantum Mechanics I and II, Classical Mechanics, Introduction to Programming in the Physical Sciences, Lab: Electricity and Magnetism, Physical Geology, Physical Geology Lab, Planetary Geology, Geophysics

Related Training:

- **July 2023:** Attended ComSciCon - Flagship Workshop 2023 at Emerson College
- **June 2023:** Attended the EXOSLAM Summer School in Exeter, UK
- **February - March 2023:** Completed the Empower Your Pitch Research Communication Training Series at Johns Hopkins University
- **August 2019:** Attended the La Serena School for Data Science in La Serena, Chile

RESEARCH SUMMARY

Interests: exoplanets, exoplanet atmosphere observations, planetary interior modeling, planetary interior experiments

Work:

- Conducting research in a variety of fields which has led to **eleven** co-author refereed publications, **one** first-author publication submitted and **two** first-author publications in preparation (see separate list of publications)
- Presented **20** professional talks and **18** posters at local, national and international conferences, workshops and events over the course of **11** years
- Mentored **three** students (**one** high school student and **two** undergraduate students)

PROFESSIONAL EXPERIENCE

Johns Hopkins University - *Baltimore, MD (FALL 2020 - PRESENT)*

Advisor: Prof. Laura Schaefer (Stanford University), Prof. Sabine Stanley (JHU)

- Currently expanding the outgassing model from *Perez et al. submitted* to include a magma ocean phase after which will be used in an extensive study with more than 15 exoplanets that have been observed with JWST to provide geological context for atmosphere observations. (paper is in preparation to be submitted).
- Modeled the carbonate-silicate cycle and deep water cycle on the TRAPPIST-1 planets to track outgassing abundances and study their effect on atmospheric composition and climate (paper is submitted to Journal of Geophysical Research (JGR) Planets).
- Study is part of the Consortium on Habitability and Atmospheres of M-dwarf Planets (CHAMPs), which seeks to understand the habitability of planets orbiting M dwarf stars.
- Presented research at the CHAMPs Exoplanet Early Career Highlight Seminar, Exoclimates VI Conference and NASA Exoplanet Explorer Science Series.
- Software: MATLAB, Python
- Hours worked per week: 40

NASA GSFC (Post-Bac Position) - Greenbelt, MD (SUMMER 2019 - SUMMER 2020)

Advisor: Dr. Neil Zimmerman (NASA GSFC)

- Worked on the Roman Exoplanet Imaging Data Challenge doing exoplanet data simulations including testing different orbit fitting packages and improving current exozodiacal light models.
- Led analysis of the data challenge results.
- Co-author on paper published in the Journal of Astronomical Telescopes, Instruments, and Systems.
- Software: IDL, Python
- Hours worked per week: 40

Johns Hopkins University - Baltimore, MD (FALL 2017 - SPRING 2019)

Advisor: Prof. June Wicks (Johns Hopkins University)

- Carried out shock-wave experiments at the Laboratory for Laser Energetics (LLE) in Rochester, NY to study phase transitions of MgO, an important mineral found on Earth.
- Received the Outstanding Research Presentation Award at the National Diversity in STEM Conference hosted by the Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS).
- Software: ImageJ, Igor, Python
- Hours worked per week: 5-10

Center for Astrophysics Harvard & Smithsonian - Cambridge, MA (SUMMER 2018)

Advisor: Prof. Sarah Ballard (University of Florida)

- Research in prioritizing exoplanets found with the Transiting Exoplanet Survey Satellite (TESS) for atmospheric follow up with the James Webb Space Telescope (JWST).
- Used planet formation theory to create a prioritization pipeline.
- Obtained Outstanding Presentation Award at the Gulf Coast Undergraduate Research Symposium (GCURS) held at Rice University and presented at various conferences.
- Software: Python
- Hours worked per week: 40

Humboldt University of Berlin - Berlin, Germany (SUMMER 2017)

Advisor: Dr. Jakob Nordin (Humboldt University of Berlin)

- Research on modeling the atmospheric extinction for the Zwicky Transient Facility (ZTF).
- Worked on managing large databases for calibration purposes for ZTF.
- Received 3rd place for Outstanding Poster Presentation at the Conference for Undergraduate Women in Physics (CUWiP).
- Software: Python
- Hours worked per week: 40

Cornell University - Ithaca, NY (SUMMER 2016)

Advisor: Prof. Lisa Kaltenegger (Cornell University)

- Characterized the habitable zones of exomoons utilizing illumination constraints given their potential as astrobiology targets.
- Ran comparative study of habitable zones of exoplanets and those of exomoons in terms of their orbital parameters.
- Software: Python
- Hours worked per week: 40

Carnegie Institution for Science - Washington DC (FALL 2015 - SPRING 2016)

Advisor: Dr. Johanna Teske (Carnegie Institution for Science)

- Built a database of stellar parameters and chemical abundances of both host and non-host stars.
- Created samples in a laboratory under a microscope.
- Did high pressure and temperature experiments using a piston cylinder to simulate planetary formation.
- Instrumentation: Piston cylinder, Scanning Electron Microscope (SEM)
- Hours worked per week: 40

NASA GSFC - Greenbelt, MD (SUMMER 2015)

Advisors: Dr. Eli Dwek, Dr. Johannes Staguhn, and Dr. Rick Arendt (NASA GSFC)

- Traced different features of the Galactic Center including ionized gas, magnetic fields and dust using three different types of emission.
- Utilized data from the Herschel Telescope, Very Large Array (VLA), Spitzer Space Telescope and the Goddard IRAM Superconducting 2 Millimeter Observer (GISMO).
- Awarded 2nd place for Outstanding Poster Presentation at the Conference for Undergraduate Minorities in Physics hosted by the University of Maryland, College Park.
- Software: IDL
- Hours worked per week: 40

NOYCE Tutor - College Park, MD (SPRING 2015)

- Science and math tutor at Northwestern High School.
- Tutored English as a Second Language (ESL) students.
- Hours worked per week: 5-7

PUBLICATIONS LIST

FIRST AUTHOR:

Perez, J., Schaefer, L., Schwieterman, E., Stevenson, K.B., Chen, H., Lustig-Yaeger, J. What's Inside Matters: The Effect of Oxygen Fugacity and Initial Volatile Abundance on the TRAPPIST-1 Planets. *JGR Planets*, *Submitted (available on [arXiv](#))*

Perez, J., Schaefer, L. & CHAMPS Collaboration. The Effect of Interior Parameters on the Outgassing Rates of JWST Exoplanet Targets, *In Prep (to be submitted by February 2026)*

Perez, J., Schaefer, L. & CHAMPS Collaboration. Comparison of Outgassing Evolution Models with Transmission and Emission Spectra of Rocky Exoplanets Observed with JWST, *In Prep*

SIGNIFICANT CO-AUTHOR:

Lichtenberg, T., Schaefer, L., Krissansen-Totton, J., Miguel, Y., ... **Perez, J.** ... Coupled atmospHere Interior model Intercomparison (CHILI) Protocol Version 1.0: A CUISINES Intercomparison Project of Magma Ocean Models, *The Planetary Science Journal*, *Submitted (available on [arXiv](#))*

Bennett, K. A., MacDonald, R.J., Peacock, S., **Perez, J.**, ... (2025) [Additional JWST/NIRSpec Transits of the Rocky M Dwarf Exoplanet GJ 1132 b Reveal a Featureless Spectrum](#), *The Astronomical Journal*, 170 205

Kirk, J., Stevenson, K. B., Fu, G., Lustig-Yaeger, J., Moran, S. E., Peacock, S., ... **Gonzalez-Quiles, J.**, ... Wakeford, H. R. (2024), [JWST/NIRCam Transmission Spectroscopy of the Nearby Sub-Earth GJ 341b](#), *The Astronomical Journal*, 167, 90

Lustig-Yaeger, J., Fu, G., May, E.M. ... **Gonzalez-Quiles, J.**, Kruse, E., Lothringer, J.D., Rustamkulov, Z. and Wakeford, H. R. (2023). [A JWST transmission spectrum of the nearby Earth-sized exoplanet LHS 475 b](#). *Nat Astron* 7, 1317–1328

May, E. M., MacDonald, R. J., Bennett, K. A., Moran, S.E., Wakeford, H. R., ... **Gonzalez-Quiles, J.**, Lothringer, J. D., Rustamkulov, Z., Sotzen, K. S. (2023). [Double Trouble: Two Transits of the Super-Earth GJ 1132 b Observed with JWST NIRSpec G395H](#). *The Astrophysical Journal Letters*, 959, L9

Moran, S. E., Stevenson, K. B., Sing, D. K., MacDonald R. J., Kirk, J., Lustig-Yaeger, J., ... **Gonzalez-Quiles, J.**, Highland, A. N., Kruse, E., Lothringer, J. D., Ortiz Ceballos, K. N., Sotzen, K.S. & Wakeford, H. R. (2023). [High Tide or Riptide on the Cosmic Shoreline? A Water-rich Atmosphere or Stellar Contamination for the Warm Super-Earth GJ 486b from JWST Observations](#). *The Astrophysical Journal Letters*, 948(1), L11.

Turnbull, M. C., Zimmerman, N., Girard, J. H., Hildebrandt, S. R., Li, Z., Bogat, E., **Gonzalez-Quiles, J.**, Stark, C., Mandell, A., Meshkat, T., & Kane, S. R. (2021). [Community exoplanet imaging data challenge for Roman CGI and starshade rendezvous](#). *Journal of Astronomical Telescopes, Instruments, and Systems*, 7(2), 021218.

ADDITIONAL CO-AUTHOR:

Mayorga, L. C., Lustig-Yaeger, J., May, E. M., Sotzen, K. S., **Gonzalez-Quiles, J.**, Kilpatrick, B. M., ... & Izenberg, N. R. (2021). [Transmission Spectroscopy of the Earth–Sun System to Inform the Search for Extrasolar Life](#). The Planetary Science Journal, 2(4), 140.

Li, Z., Hildebrandt, S. R., Kane, S. R., Zimmerman, N. T., Girard, J. H., **Gonzalez-Quiles, J.**, & Turnbull, M. C. (2021). [Direct Imaging of Exoplanets beyond the Radial Velocity Limit: Application to the HD 134987 System](#). The Astronomical Journal, 162(1), 9.

Arendt, R. G., Staguhn, J., Dwek, E., Morris, M. R., Yusef-Zadeh, F., Benford, D. J., ... & **Gonzalez-Quiles, J.** (2019). [2 mm GISMO Observations of the Galactic Center. I. Dust Emission](#). The Astrophysical Journal, 885(1), 71.

Staguhn, J., Arendt, R. G., Dwek, E., Morris, M. R., Yusef-Zadeh, F., Benford, D. J., ... & **Gonzalez-Quiles, J.** (2019). [2 mm GISMO Observations of the Galactic Center. II. A Nonthermal Filament in the Radio Arc and Compact Sources](#). The Astrophysical Journal, 885(1), 72.

INVITED TALKS

Fall 2025: Texas A&M University Dept. of Geology and Geophysics - Talk (In person)

Spring 2024: Being Stardust: Astrobiology Talk at Library of Congress - Talk (In person)

Fall 2023: iTelescope Webinar - Talk (Virtual)

Fall 2023: NASA JPL Virtual Exoplanet Lecture Series - Talk (Virtual)

Spring 2023: NASA Exoplanet Explorer (ExoExplorer) Science Series - Talk (Virtual)

Spring 2023: Carnegie EPL Astronomy Seminar - Talk (In person)

Spring 2023: NASA H2O Panel in Puerto Rico - Panel (Virtual)

Winter 2023: CCM School – Exoplanets Outreach Talk (Spanish) (Virtual)

Summer 2022: CRESST II Summer Internship Orientation – Talk (Virtual)

Summer 2022: SACNAS Undergraduate Research Day – Talk (Virtual)

Spring 2022: University of Maryland, College Park – Guest Lecture (Virtual)

Spring 2022: Johns Hopkins University – Guest Lecture (Virtual)

Fall 2021: CCM School – JWST Talk (Spanish) (Virtual)

Fall 2021: CSA Observatory in Puerto Rico – JWST Talk (Spanish) (Virtual)

Fall 2020: STAR Academy – Talk (Spanish) (Virtual)

Spring 2020: University of Arizona TIMESTEP Gap Year Discussion - Talk (Virtual)

Summer 2019: Summer STARS – CASE Colloquium (In person)

PROFESSIONAL PRESENTATIONS

Fall 2025: STScI/JHU ExoJamboree - Talk

Fall 2025: Atmospheric Escape and Replenishment in Planetary Systems Workshop at STScI-Poster

Fall 2025: Atmospheric and Interior Evolution of Planetary Magma Ocean Workshop in Leiden, Netherlands - Talk

Summer 2025: Exoclimates VII Conference - Poster

Winter 2025: American Astronomical Society Meeting - Two Posters (One on research and one on HWO initiatives)

Winter 2025: American Astronomical Society Meeting - CHAMPs Splinter Session - Talk

Fall 2024: National Society of Black Physicists and National Society of Hispanic Physicists Joint Meeting - Poster

Fall 2024: Johns Hopkins University Dept. of Earth & Planetary Sciences Journal Club Talk

Fall 2023: Johns Hopkins University Dept. of Earth & Planetary Sciences Journal Club Talk

Fall 2023: iTelescope Webinar - Talk (Virtual)

Fall 2023: NASA JPL Virtual Exoplanet Lecture Series - Talk (Virtual)

Summer 2023: Exoclimes VI Conference - Talk

Spring 2023: NASA Exoplanet Explorer (ExoExplorer) Science Series - Talk (Virtual)

Spring 2023: Carnegie EPL Astronomy Seminar - Talk

Winter 2023: Johns Hopkins University Dept. of Earth & Planetary Sciences Journal Club Talk

Winter 2023: American Astronomical Society Meeting - Talk

Summer 2022: Exoplanets IV Conference-2 posters (UNABLE TO ATTEND DUE TO COVID-19)

Winter 2022: Johns Hopkins University Dept. of Earth & Planetary Sciences Journal Club Talk

Winter 2022: CHAMPs Exoplanet Early Career Highlight Seminar -Talk (Virtual)

Winter 2022: American Astronomical Society Meeting - Talk (CANCELED DUE TO COVID-19)

Spring 2021: Johns Hopkins University Dept. of Earth & Planetary Sciences Journal Club Talk

Fall 2020: SACNAS - National Diversity in STEM Conference - Poster (Virtual)

Spring 2020: Roman (previously WFIRST) Meeting/Science Jamboree - Talk

Winter 2020: American Astronomical Society Meeting - Talk

Fall 2019: SACNAS - National Diversity in STEM Conference - Poster

Fall 2019: In the Spirit of Lyot Conference - Poster

Fall 2019: Roman Tutorial and Hack Days - Talk

Summer 2019: Caltech Roman Hackathon - Talk

Winter 2019: American Astronomical Society Meeting - Poster

Fall 2018: American Geophysical Union Fall Meeting (AGU) - Poster

Fall 2018: SACNAS - National Diversity in STEM Conference - Poster

Fall 2018: Gulf Coast Undergraduate Research Symposium (GCURS) - Talk

Fall 2018: University of Maryland Astronomy Department Summer Research Presentations-Talk

Summer 2018: Harvard University Banneker Institute Research Presentations - Talk

Winter 2018: APS Conference for Undergraduate Women in Physics - Poster

Winter 2017: APS Conference for Undergraduate Women in Physics - Poster

Fall 2016: Conference for Undergraduate Minorities in Physics - Poster

Summer 2016: Cornell University NSF REU Department Presentations - Talk

Spring 2016: GRAD-MAP Spring Symposium - Poster

Spring 2016: University of Maryland Undergraduate Research Showcase - Poster

Winter 2016: American Astronomical Society Meeting - Poster

Winter 2016: APS Conference for Undergraduate Women in Physics - Poster

Fall 2015: National Astronomy Consortium Workshop - Talk

Summer 2015: NASA GSFC Intern Presentations - Poster

HONORS AND AWARDS

Spring 2025: Spring 2025 Maryland Space Grant Consortium Graduate Fellowship (~\$25k)

Spring 2024: Selected and invited to attend the **Baden Württemberg Post-Conference Programme of the Lindau Nobel Laureate Meeting** in Germany (Summer 2024)

Spring 2024: Selected and invited as a young scientist to the **73rd Lindau Nobel Laureate Meeting in Physics** in Germany (Summer 2024)

Fall 2023: Johns Hopkins University Career Impact Award

Fall 2023: Invited to attend the **White House National Space Council: Latinos & Space Event** at the White House

Summer 2023: Selected to attend the ComSciCon-Flagship Workshop in July 2023

Spring 2023: Winner of Empower Your Pitch! Competition at Johns Hopkins University (\$1k award)

Spring 2023: Selected for the **NASA Exoplanet Explorer (ExoExplorer) Program** (\$1k award)

Winter 2023: Selected to join Astrobites, a daily astrophysical journal written by graduate students

Winter 2023: AAS FAMOUS Travel Grant to attend AAS Meeting in Seattle, WA (\$1k award)

Spring 2022: Johns Hopkins University EPS Department Outreach PhD Fellowship (~\$8k)

Fall 2020: Johns Hopkins University Kelly Miller Fellowship (For travel and professional development expenses) (\$9k)

Fall 2019: NSF Graduate Research Fellowship (\$34k/year + \$12k/year for the institution)

Fall 2019: Outstanding Research Presentation Award at the National Diversity in STEM Conference (SACNAS)

Spring 2019: Ford Foundation Predoctoral Fellowship (Honorable Mention)

Fall 2018: Outstanding Presentation Award, Gulf Coast Undergraduate Research Symposium (GCRUS)

Fall 2018: Spirit of Maryland Award Finalist, University of Maryland, College Park

Fall 2018, Spring 2018: NSF S-STEM Scholarship, University of Maryland, College Park (\$5k award)

Fall 2018: College of Computer, Mathematical and Natural Sciences (CMNS) Scholarship, University of Maryland, College Park (\$1k award)

Fall 2018: Maryland Space Grant Scholarship, University of Maryland, College Park (\$1k award)

Winter 2018: 3rd place Outstanding Poster Presentation, Conference for Undergraduate Women in Physics (CUWiP)

Fall 2016: 2nd place Outstanding Poster Presentation, Conference for Undergraduate Minorities in Physics (CUMiP), University of Maryland, College Park

Fall 2014: Banneker Key Full Scholarship, University of Maryland, College Park (~\$30k/year for 4 yrs)

Fall 2014: National Honor Society Scholarship (Puerto Rico winner)

LEADERSHIP EXPERIENCE

Coordinator - *League of Underrepresented Minoritized Astronomers (LUMA) (SEPTEMBER 2022 - MAY 2025)*

- **Spring 2023 - Spring 2025:** Served as coordinator to:
 - **Plan, organize and implement** community meetings, workshops, writing circles, buddy system and all programming events for members
 - **Direct, advise and support** all internal and external communications of the organization through the website, social media platforms, email and Slack
 - **Coordinate with other organizations** to provide resources to both members of the organization
 - **Co-organize and run the Rainbow Village**, a new gathering place for people of color at the American Astronomical Society Meetings
 - **Lead, develop and implement** coverage of the Rainbow Village through Astrobites
 - **Create new website** for the organization through Squarespace
 - **Produce** internal semesterly evaluation reports for granting institutions
 - As spokesperson for the organization, **recruit new members** through exhibitor halls at conferences such as the American Astronomical Society (AAS)
 - **Coordinate** with assistant coordinator on strategic dissemination of information and events
 - **Create** promotional flyers for social media on Canva
- **Fall 2022:**
 - Created promotional flyers for social media on Canva
 - Created and edited content for social media account on Twitter (now X)
 - Scheduled posts on Twitter (X) account

HWO Emerging Leader - Habitable Worlds Observatory (HWO - NASA's Next Flagship Mission) (SPRING 2024 - Fall 2024)

- Selected as an “**Emerging Leader**”, for the **Workforce Steering Working Group** for the Habitable Worlds Observatory (HWO) to:
 - Identify **strategic areas** to support the workforce during the planning, building and execution phases of NASA's next Flagship Mission, including but not limited to developing and implementing mentoring trainings
 - Identify, connect and uplift communities that support scientists from all levels to **increase representation** in all phases of the mission
 - Formulate, develop and implement a **workforce steering plan** for the lifetime of the mission

Dept. of Earth & Planetary Sciences Graduate Student President - Johns Hopkins University (AUGUST 2021 - SUMMER 2023)

- Served as liaison between staff, faculty and students to:
 - **Recruit, coordinate and oversee** department graduate student committees including but not limited to the following committees: Student Advisory, Outreach, among other committees (successfully re-started many department activities and initiatives impacted by the COVID pandemic including the newsletter, committee meetings, qualifying exam support for graduate students, among others).
 - **Advocate on behalf of the graduate students** to the department and the university on all issues affecting them including but not limited to administrative and

academic issues (successfully advocated for graduate student tasks to be voluntary - they were required before with no pay).

- **Manage communications** between faculty, graduate students and staff in the department (successfully identified points of communication that were weak or lacking between graduate-led committees and faculty-led committees).

***AstroTerps Leadership** - University of Maryland, College Park (AUGUST 2015 - DECEMBER 2018)*

- **Fall 2017:** As president, **organized and scheduled** weekly talks on a variety of different topics spanning the field of astronomy and recruited undergraduate students (~30 students) and sent weekly emails about upcoming talks
- **Spring 2017:** As secretary, **took attendance and notes** on the weekly meetings
- **Fall 2015:** As treasurer, **ordered and kept track of operations and logistics** for weekly meetings

TEACHING EXPERIENCE

***Teaching Assistant** - Johns Hopkins University (FALL 2025)*

- Teaching assistant (TA) for the class **“Igneous Petrology: Magmatic and Volcanic Systems on Earth & Other Planets”** (~13 students) with the following responsibilities:
 - Grading laboratory reports, assignments and exams
 - Hosting office hours to help the students
 - Co-lead the laboratory class once a week (1.5 hr lab)

SCIENCE OUTREACH EXPERIENCE

***Science Communicator** - English and Spanish (SEPTEMBER 2014 - PRESENT)*

- **Spring 2018 - Present:** Presented **12** talks in both English and Spanish about personal academic journey as well as science missions as JWST Subject Matter Expert
- **Winter 2025:** Co-organized the first **LUMA (League of Underrepresented Minoritized Astronomers) Splinter Session** at the American Astronomical Society Meeting in January 2025
- **Fall 2024:** Gave talk about exoplanets with the Habitable Worlds Observatory at a special session during the NSBP/NSHP Joint Meeting in Houston, Texas
- **Fall 2024:** Participated as a panelist in the Women+ of Color Project Grad School Virtual Course
- **Spring 2024:** Participated in the Lindau Nobel Laureate Online Sciathon and successfully submitted a proposal titled **“Learning Physics on the Go! Revolutionizing the way we learn physics with “EasyPhysi” - a Mobile App”**
- **Spring 2024:** Gave a talk as **one out of four** selected astrobiologists to give a talk on exoplanets and astrobiology to high school theater students, which resulted in a theater performance by the students at the Library of Congress
- **Fall 2023:** Organized coverage through Astrobites for the Rainbow Village at AAS, a new gathering place for people of color - resulted in **five** articles before the 2024 AAS meeting
- **Summer 2023:** Attended the ComSciCon-Flagship Workshop and participated in the Create-A-Thon to produce an article for a news outlet

- **Spring 2023:** Participated in the Empower Your Pitch Research Communication Training Series and in the Empower Your Pitch! Competition (**named one of the winners**)
- **Spring 2023:** Invited to participate in NASA H2O Virtual Panel in Puerto Rico
- **Winter 2023:** Selected to join Astrobites, a daily astrophysical literature journal written by graduate students:
 - Written **four** daily summary articles on new research papers once a month
 - Written **six** “Beyond astro-ph” articles focusing on current issues in the field, career navigation, personal experiences, interviews, among others
 - Contributed to **three** American Astronomical Society (AAS) Meeting coverage articles
 - Edited **seven** articles to date
- **January - August 2022: Coordinated, planned and ran the Geoscience Summer Camp** at Johns Hopkins University for high school students funded by the NSF GEOPATHS Program
- **Spring 2022:** Invited to present **2** guest lectures about exoplanets in undergraduate classes at University of Maryland, College Park (~30 students) and Johns Hopkins University (~18 students)
- **Spring 2021:** Organized and coordinated virtual panel in Spanish with guest presentations about exoplanets for high school students in San Juan, Puerto Rico
- **Summer 2019 and Fall 2020: Interviewed on live TV, podcasts, YouTube and radio** in both Spanish and English for NASA’s TESS Mission discoveries
- **Fall 2019:** Organized, coordinated and gave virtual tour in Spanish of NASA facilities for elementary students in Puerto Rico
- **2014 - 2017:** Volunteered at physics and astronomy specific booths at four events held at University of Maryland and one event held in Washington, DC

Outreach & Social Media Team Lead - The Women+ of Color Project (AUGUST 2020 - FALL 2023)

- **August 2020 - December 2023:**
 - Created promotional flyers for social media on Canva
 - Created content for all social media platforms including Facebook, Instagram, Twitter, and LinkedIn in both English and Spanish
 - Edited content created by team members
 - Managed all social media content through social media management website Zoho for scheduling and managing content for all platforms
 - Managed all communication efforts for the organization
 - Planned live coverage of workshop for the Graduate School 101 Workshop every year
 - Created and edited content for emails to institutions across the United States as part of the outreach initiative
- **October 2020/2021:** Promoted and live tweeted the W+OCP Graduate School 101 Workshop

Social Media Assistant - Johns Hopkins University (JANUARY 2019 - AUGUST 2021)

- Coordinated, created and edited content for the department Twitter page and the Wicks Lab’s website in WordPress

Science Translator - English and Spanish (SPRING 2018)

- Served as professional translator in the control room at NASA GSFC during the TESS Mission and Hubble Anniversary Live Interviews

MENTORSHIP EXPERIENCE

The Ingenuity Project - Baltimore Polytechnic Institute (SUMMER 2021 - SPRING 2023)

- Mentored a high school student (Julio Gabriel A.) on a project about exoplanet interiors who presented a poster at Ingenuity's Math and Science Symposium (May 2022). (Student now a **Banneker Key Full Scholar** at University of Maryland, College Park majoring in Computer Engineering)

Astronomy Peer Mentors Program and Women in Physics Peer Mentors Program - University of Maryland, College Park (AUGUST 2018 - DECEMBER 2018)

- Mentored **two** undergraduate students (Taylor P. and Lucy W.) on navigating college and helping them thrive in their degrees

SERVICE

- **Fall 2024 - Fall 2025:** As a member of Astrobites, served as:
 - Admin committee co-chair
 - Social media committee co-chair
 - Recruitment committee member
 - Scheduling committee member
- **Fall 2023 - Fall 2024:** As a member of Astrobites, served as:
 - Slack chair
 - Hiring committee member
 - Scheduling committee member
 - Social media committee member (Twitter/X and Bluesky Social Media Manager for Astrobites)
- **Fall 2023:** Horizons by Hopkins Session Moderator
- **Primary Reviewer:** NASA Transform to Open Science (TOPS) Review Panel
- **Executive Secretary:** Served on NASA Exoplanets Research Program (XRP) Review Panel

SELECTED PRESS

Written:

- [Raising eSTEAM: An Interview with Samantha Gilbert-Janizek](#)
- [The Rainbow Village at AAS: Dra. Nicole Cabrera Salazar and AAS Committee on the Status of Minorities in Astronomy](#)
- [The Rainbow Village at AAS: A Gathering Place for People of Color in Astronomy](#)
- [To the \[Exo\]Moon and Back: Understanding Limitations of Exomoon Detections](#)
- [Vibe Checking TRAPPIST-1 c - Using JWST to Look for Exoplanet Atmospheres](#)
- [Meet the AAS Keynote Speakers: Klaus Pontoppidan](#)
- [Meet the AAS Keynote Speakers: Julia Blue Bird](#)
- [Is There More to Life than Oxygen?](#)

- [Overwhelmed with Grad School Decisions? Here are the Most Important Questions to Ask!](#)
- [TRAPPIST-1: What's Inside Matters](#)

Featured In:

- [The Rainbow Village at AAS: Junellie Gonzalez Quiles and the League of Underrepresented Minoritized Astronomers](#)
- [The Career Impact Awards at Johns Hopkins University](#)
- [ExoExplorers Event - Science Talk 2023-05-12 - Part 2](#)
- [Pitch Competition Showcases Student Creativity in Research Communication](#)
- [The economic loss of Puerto Rico's Arecibo Observatory is already being felt. It's also very personal \(CNN\)](#)
- [Junellie González Quiles - PhD Student at Johns Hopkins University | Cosmos Crusaders](#)
- [El cazaplanetas de la NASA revela emocionantes descubrimientos - NASA en español](#)
- [Como la Misión TESS Busca Exoplanetas Parecidos a la Tierra](#)
- [LatAmNRG Q&A: Latina Women in Energy And STEM, Junellie González Quiles](#)

SKILLS

- **Astrophysics and Planetary Science:** Data Analysis/Reduction, Simulations/Theory, Experiments
- **Programming:** Proficient in Python, MATLAB, IDL
- **Communication:** Written & Spoken, Social Media, Web Design, Media
- **Project Management and Leadership**
- **Languages:** Spanish & English

PROFESSIONAL AFFILIATIONS

- American Astronomical Society (AAS)
- Society for the Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS)
- National Society of Hispanic Physicists (NSHP)