

**Education****Princeton University, Princeton NJ***Class of 2023*

A.B Candidate: Astrophysics; Certificate in History of Diplomacy

Relevant Coursework: Lagrangian Mechanics, Quantum Mechanics, Thermal Physics, Topics in Modern Astronomy, Research Methods in Astrophysics, Cosmology, Space Physics Lab, Political Statistics, Comparative Politics, Global Justice, Global Security Studies, Communications History

**Technical and Language Skills**

- Advanced In: Microsoft Office; LaTeX; Overleaf; Python; SIMION; Video Editing; Civicore Database
- Spanish (Intermediate 5 Years; completion of SPA 101, 102, 107; 2 month internship abroad in Santiago, Chile)

**Research Experience****European Southern Observatory (ESO) / ALMA - Paid Summer Research Intern (Santiago, Chile)** *June 2022- August 2022*

- Lived and worked abroad at the ESO/ALMA headquarters in Santiago, Chile with advisor Robert De Rosa on research involving potential perturbers derived from protoplanetary disk substructures; queried star targets in Vizier and Simbad; modeled non-detections by simulating two end of mission sensitivities using Gaia and Hipparcos data
- Visited the ALMA OSF and AOS high sites to shadow control room observations, correlator labs, and array maintenance

**Undergraduate Student Research - Paid Summer Intern and Junior Independent Work (Princeton, NJ)** *June 2021- May 2022*

- Collaborated with a graduate student and faculty advisor on an independent research project revolving around Brightest Cluster Galaxies (BCGs) specialness with well known statistical models in Python; writing academic paper for publication
- Researched and wrote a policy proposal paper on the militarization of cislunar space from a United States centric standpoint with Professor Chris Chyba

**Princeton Space Physics Lab Course (Princeton, NJ)***September 2021- May 2022*

- Integrated SIMION modeling of ion source by running different potential fields through varying components to predict an ionized He beam; took lab taking data on SWAPI and heliophysics ionized gas phenomena from the source with Dr. David McComas; delivered a PDR and CDR at two points throughout the course of two semesters

**DEI Research for Planetary and Space Scientists (Princeton)***January 2022- May 2022*

- Assisted Dr. Janet Vertasi with conducting Diversity, Equity, and Inclusion (DEI) interviews for various Planetary and Space scientists in different stages of their careers

**Civic Engagement and Leadership Experience****The Women's Network- President at Princeton University Chapter***August 2022 - Present*

- Started new chapter of TWN on Princeton's Campus
- Leads weekly executive board meetings and attends biweekly national president meetings with founder

**Pace Center at Princeton University- Paid Digital Engagement Intern***September 2020 - Present*

- Utilizes Canva and other publishing methods to create social media content for various feeds (Facebook, Instagram, etc)
- Attends trainings in data analysis; Participate in weekly team meetings to establish a calendar and plan for social media posts

**Students For Justice- Team Leader/ Paid Fall Intern (remote)***September 2020 - November 2020*

- Recruited volunteers for various activism projects (postcarding, phone banking, etc); utilized social media
- Participated in weekly meetings and guest lectures; reflect with mentors and other interns; learn to write an Op Ed

**Princeton Rocketry NASA Big Idea 2021- Team Member (Princeton)***October 2020 - October 2021*

- Problem solved the proposed lunar dust problem given by NASA utilizing a laser design to ablate the lunar dust and clean the surfaces of the astronaut's suit; Co-created and submitted a proposal and phased budget sheet in Overleaf using LaTeX along with a video submission

**Pace Center of Civic Values (PCCV) and Service Focus Program- Board Member (Princeton)** *September 2019 - September 2021*

- Provided guidance to fellow undergraduates seeking a meaningful community service experience; Worked with faculty administrators on finance planning for each school and fiscal year; Organized meeting notes and assist all elements of the board and council on an organizational level

**Children's Scholarship Fund Philadelphia- Paid Summer Intern (remote)***May 2020 - August 2020*

- Filmed, edited, and compiled a series of STEAM oriented YouTube videos for at-home students/ compiled resource list
- Designed social media posts and utilized marketing strategies for possible donors (individual, corporate, and foundations)