

Xander Jenkin

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Education

Princeton University Class of 2025

A.B. Astrophysics Major

For more details, visit xanderjenkin.com/academics for relevant coursework

Skills

Programming/Technical Skills: Python, Fortran, Java, HTML/CSS, \LaTeX , Unix, Bash/Slurm, Git

Experience

Research Intern

Summer **2024**

Space Telescope Science Institute (STScI) at Johns Hopkins University

- Generated a library of multi-wavelength template spectra classifying Type Ia supernovae
- Created composite spectra with UV data from Hubble's STIS sensor under Dr. Matt Siebert

Research Correspondent

September **2023** — May **2024**

Princeton Correspondents on Undergraduate Research (PCUR), Office of Undergraduate Research

- Authored various articles that range all aspects of the undergraduate research experience
- Hosted events for students to get engaged with research opportunities at Princeton

Research Intern

Summer **2023**

Cardiff University School of Physics & Astronomy, Wales

- Analyzed high-redshift galaxy protoclusters using radio data from the ALMA Observatory
- Confirmed the existence of a new high-redshift protocluster under Dr. Steve Eales

Lab Researcher

September **2022** — May **2023**

Princeton Space Physics Lab, AST250-251 Course Sequence

- Developed NASA space flight instrumentation under Dr. David McComas & Dr. Jamie Rankin
- Handled ultrahigh vacuum, cleanroom, mechanical/electrical instrumentation
- Carried out a group (**10**) research project: design & build an Absolute Beam Monitor for IMAP

Research Assistant

September **2022** — May **2023**

Princeton University Astrophysics Department

- Researched Observational Cosmology using Python under Dr. Arun Kannawadi
- Developed Algorithms to Compute Redshifts of Galaxies preparing for the Vera Rubin LSST

Undergraduate Researcher

Summer **2022**

Princeton University Astrophysics Department

- Participated in Princeton Astro Undergraduate Summer Research Program
- Modelled interstellar shockwaves using computational fluid dynamics simulations
- Coded using Fortran, Python, Bash scripts under Dr. Romain Teyssier

Activities

Princeton Scholars Institute Fellows Program

May **2021** — Present

SIFP Head Fellow

- Mentorship & funding program for First Generation/Low-income (FLi) Princeton students

Honors & Awards

QuestBridge Scholar

December **2020**

Matched to Princeton University through the QuestBridge National College Match

- QuestBridge matches high-achieving FLi students to full-ride scholarships at top universities