

Nicole Rodriguez

ndr0713@westminstercollege.edu | (786)773-0179 | 1840 S 1300 E, Salt Lake City, UT 84105

Education

WESTMINSTER COLLEGE

SALT LAKE CITY, UT

Honors B.S Physics and Mathematics

- Cumulative GPA: 3.89
- Expected graduation date: Spring 2020
- Relevant coursework: Analytical Mechanics, Electrodynamics, Electronics & Electric Circuits, Scientific Computing, Statistics, Modern Physics, Topics in Chaotic Dynamical Systems

Work Experience

L'SPACE PARTICIPANT

NASA L'SPACE ACADEMY

Deputy Project Manager and Science Lead

September 2019 – Present

- Part of a team designing the first draft of a preliminary concept review for a rover in the Vesta asteroid.
- In charge of payload design and science experiments to determine traces of waters on the sub-surface of the Marcia crater using radio data.

SUMMER INTERN

SPACE TELESCOPE SCIENCE INSTITUTE

SASP Intern

June 2019 – August 2019

- Developed an application programming interface (API) that makes the observation schedules for the Hubble Space Telescope computer-accessible.
- Created a web application, Space Telescope Live, that uses API to retrieve the current observations of the Hubble Space Telescope.

PHYSICS DEPARTMENT

WESTMINSTER COLLEGE

Undergraduate Researcher and TA for Mathematical Methods in Physics

May 2018 – May 2019

- Created Python scripts that execute aperture photometry, instrumental zero-point calculations, and sky brightness maps.
- Graded physics coursework providing feedback for students.

MATHEMATICS DEPARTMENT

WESTMINSTER COLLEGE

Multivariate Calculus Tutor and TA for Fundamentals of Algebra

January 2018 – December 2018

- Tutored Multivariate Calculus and helped tutees obtain a letter grade of B or above.
- Graded coursework and conducted review sessions.

OFFICE OF MARKETING AND COMMUNICATIONS

WESTMINSTER COLLEGE

Website Copywriter and Content Strategist

September 2016 – Present

- Responsible for search engine optimization, academic content of the college website and stories for the Westminster Review alumni magazine.