Naylynn **Tañón Reyes**

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Education

Smith College *Sept 2020 - May 2023*
B.S. in Computer Science

San Diego Mesa College *Sept 2015 - May 2018*
A.A. in Physics

Skills

Languages Python | Java
Frameworks Numpy | Pandas | Scikit-Learn
Technical Data Analysis | Data Extraction | Data Quality Control | Project Management | Technical Documentation

Experience

Stanford University *Stanford, CA*
Incoming Research Student | Machine Learning *Jun 2021 — August 2021*

MIT — Massachusetts Institute of Technology *Boston, MA*
Research Assistant | Astrophysics *Dec 2020 — present*

- Develop code in Python that fits planetary models to time series data arrays and automates the prediction times of future exoplanet events, using MCMC. Therefore, saving human-hours, telescope time, and monetary resources required by the collaboration to confirm the exoplanets and study them for habitability on the following mission.

NASA Exoplanet Science Institute at Caltech *Pasadena, CA*
Research Support Associate | Astrophysics *June 2018 — Sep 2020*

- Created the first comprehensive database for exoplanets discovered via gravitational microlensing, hosted by the NASA Exoplanet Archive. Data is publicly available and used by the scientific community for proposals, visualizations, research, and analysis.

Harvard & Smithsonian Center for Astrophysics *Cambridge, MA*
Research Student | Astrophysics *June 2019 — Aug 2019*

- Identified an infrared Si X emission line in a total eclipse measurement of the Sun's corona and used Gaussian fitting, with IDL, to find the intensity gradient as a function of distance from Sun's center. Thus, improving our understanding of the atomic physics of the Si X ion.

NASA — National Aeronautics and Space Administration *Greenbelt, MD*
Intern | Astrophysics *Feb 2019 — May 2019*

- Analyzed hundreds of light-curve data files of low mass stars, using Python packages, to identify stellar flare rates, generate a stellar flare catalog and select stars for subsequent flare signature models to predict possibility of planet habitability.

NASA — National Aeronautics and Space Administration *Washington D.C.*
Intern | Data Science *Oct 2018 — Jan 2019*

- Wrote code in Python using machine learning and NLP to identify which NASA documents should be added to the National Archives which eliminated time intensive manual categorization, reduced operational costs, and increased accuracy by 30 percent.

NASA — National Aeronautics and Space Administration *Houston, TX*
NASA Community College Aerospace Scholar *Nov 2017 — Feb 2018*

- Authored a Mars mission proposal that led to an onsite invitation to NASA. There, I conceptualized a fictitious aerospace company which was assessed by a panel of NASA employees based on the quality of the prototype rover, the company's infrastructure, proposed budget as well as the outreach efforts.

Honors & Awards

2018 **Caltech WAVE Research Fellow**, Caltech — California Institute of Technology
2018 **STEM Community Scholar**, San Diego Mesa College
2018 **Academic Achievement Award**, San Diego Mesa College
2017 **Phi Theta Kappa Honor Society — Inducted**, Beta Beta Upsilon Chapter at San Diego Mesa College

Extracurricular Activities

Society for Advancement of Chicanos/Hispanics and Native Americans in Science *2017 — 2018*
President

Computer Science Club at San Diego Mesa College *2017 — 2018*
Member

San Diego City College Robotics Club *2018*
Member