

# Marcos Marroquin

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## Education

### University of Washington

Seattle, WA

BS Physics & Astronomy. GPA 3.7/4.0

Relevant Coursework:

- ASTR 300: Python for Astronomy
- CSE 160: Data Programming
- (IP) ASTR 480: Astronomical Data Analysis
  - CCDs, image reduction & analysis, and FITS files with DS9 & Python
- (IP) ASTR 324: Astrostatistics and Machine Learning in Astronomy
  - Bayesian statistics, sampling techniques, pandas/scipy/numpy

## Experience

### University of Washington

Seattle, WA

#### ADMX Undergraduate Research Assistant

July 2025 - present

- Ran COMSOL thermal simulations to improve the equilibrium temperature of experiment's cryogenic equipment by **150%** to allow for better noise calibration
  - Publication set out to publish this summer
- Assisted with helium leak tests, vacuum plumbing, and machining parts
- Performed linear and nonlinear regression analysis to model temperature trends

## Activities

### Poster Presentation

Seattle, WA

#### Role

April 2025

- Presented ADMX research findings to **over 25** students & professors in a poster session at an internal research symposium

## Skills & Interests

**Languages:** Python, SQL, R, MATLAB

**Technical:** COMSOL, Git/GitHub, Bash/Linux, Tableau

**Language:** Fluent in Spanish

**Laboratory:** Electrical Engineering principles, oscilloscopes, multimeters, function generators

**Microsoft Office:** Experienced in Word, Excel, and PowerPoint

**Interests:** Drums, Spikeball, Chess, Sudoku