

# HALEY BOSWELL

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## Education

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**Santa Monica College**

*Astrophysics (for transfer)*

**Jan 2022 – Present**

*Santa Monica, CA*

## Relevant Coursework

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- C Programming
- C++ Programming
- Multivariable Calculus
- Linear Algebra
- Differential Equations
- Mechanics
- Modern Physics
- Waves and Optics
- Electricity and Magnetism

## Experience

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**UCLA Break Through in Tech**

*AI/ML Fellow*

**May 2024 – Present**

*Los Angeles, CA*

- Completed a comprehensive machine learning course provided by eCornell.
- Developed a variety of supervised and unsupervised learning models using tools such as scikit-learn to analyze real-world datasets.

**Caltech**

*LIGO SURF Intern*

**June 2023 – August 2023**

*Pasadena, CA*

- Worked on improving detection methods for gravitationally-lensed gravitational waves in the GstLAL search pipeline.
- Implemented Bayesian methods to better distinguish signal from noise using the relevant parameters' combined likelihood ratio.
- Authored and presented a paper titled *Believe It or Not: Incorporating Relative Time Delay and Magnification Distributions Predicted by Lens Models into Ranking Possible Sub-Threshold, Strongly-Lensed Candidates*.

## Technical Skills

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**Languages:** Python, C, C++, SQL

**Developer Tools:** Jupyter Notebook, VS Code, Xcode, PyCharm, GitHub, Command Line Interface (CLI)

## Leadership / Volunteer

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**Boundless Brilliance**

*Program Coordinator*

**October 2022 – December 2023**

- Developed STEM experiments focused on elementary science education and diversity outreach in line with California's NGSS.
- Facilitated interactive STEM activities at public events.