

# Shashank Chavali

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## EDUCATION

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**University of Colorado Boulder**

August 2020 - May 2024 (Expected)

*B.A. Physics*

## RESEARCH POSITIONS

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**Lab for Atmospheric and Space Physics**

February 2021 – Present

*Undergraduate Researcher*

Working with Dr. Allison Youngblood to analyze the energy of flares to determine if the flux in the UV-wavelength increased to a level where abiogenesis (origin of life) is possible on AU Mic.

**University of Colorado Boulder**

August 2020 – December 2021

*Undergraduate Research Assistant*

Worked with Dr. Diego Garcia, Professor of Finance. Used natural language processing in R to organize data from financial journals circa 1930s.

## PUBLICATIONS

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1. *Defining the Energy Budget for Abiogenesis on M-dwarf Planets: a pilot study of AU Mic with Swift*  
**S. Chavali**, A. Youngblood, R. O. Parke Loyd, J. Sebastian Pineda, K. Molarverdikhani, R. Paudel, T. Barclay, L. Vega  
In Preparation

## TALKS AND PRESENTATIONS

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- 239th American Astronomical Society Meeting (*Cancelled*)
- 240th American Astronomical Society Meeting (*Planned*)

## AWARDS AND FELLOWSHIPS

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- CU Boulder Honors Program (2020 - Present)
- CU Boulder Dean's List (2020 - Present).

## TEACHING AND EDUCATIONAL POSITIONS

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**CU Boulder Department of Astrophysical and Planetary Sciences**

January 2022 – Present

*Grader*

Grade homework assignments and provide feedback for ASTR 1040 (Accelerated Introductory Astronomy 2).

## TECHNICAL SKILLS

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**Languages:** Python, C++, Java, R

**Libraries:** Heasoft, AstroPy, Scikit-learn