



Contact

Phone

(720)-684-8589

Email

amberperillo@gmail.com

Address

2707 Valmont Rd Apt 207D
Boulder, CO 80301

Education

2020-2022

- **University of Arizona Tucson**
Major: Astronomy and Physics
Minor: Computer Science

2022-2025 (expected)

- **University of Colorado Boulder**
Major: Computer Science
Minor: Astronomy

Skills

- Python and C++ proficient, 2+ years of code development experience
- Highly capable of utilizing all Microsoft Office and Google products to complete a wide array of tasks
- Quick learner and extremely ambitious
- Great at communicating over the phone, via email, and in person
- Creative thinker able to come up with out-of-the-box solutions
- Can quickly and efficiently respond with questions as well as voice my needs

Amber Perillo

Computer Science and Astronomy
Student, University of Colorado Boulder

Experience

Fall semester 2022

University of Colorado Boulder

Grader for Introductory Astronomy 1 with Lab

As a grader for ASTR 1010 at CU Boulder, I worked with the professor to grade homework and other assignments for over 200 students, emphasizing understanding of overarching concepts such as the nature of science through the eyes of astronomy, big ideas in planetary science, and current astronomical events.

2021 - 2022

Space Science Institute

Astrophysics Research Assistant

I studied the convection parameters of red giant and red clump stars as a function of metallicity, with results finding a small but significant metallicity effect on granulation, as well as unexpected observed differences in granulation between red giant and red clump stars. This job involved writing code in Python to analyze multiple data inputs from telescopes and other instruments as well as creating scientific visuals to represent my results. I am still working on publishing two papers, one as first author and the other as a co-author to the Monthly Notices of the Royal Astronomical Society journal.

2021 - 2022

NSF's National Optical-Infrared Astronomy Research Laboratory

Communications, Education and Engagement Special Projects
Assistant

As an astronomy education and outreach undergraduate lead, I hosted programs such as the Teen Astronomy Café where I helped scientists connect with high school students interested in pursuing a STEM career. I also contributed to programs such as Globe at Night and worked on python coding in Jupyter notebooks.

Relevant Coursework

Computer Science

Starting Computing (C++)
Computer Programming I (Python)
Data Structures (C++)

Mathematics

Calculus I, II, III
Differential Equations
Linear Algebra

References

Dr. Connie Walker

Staff Scientist,
Communications, Education &
Engagement, NSF's NOIRLab in
Tucson, AZ

Email: connie.walker@noirlab.edu

Dr. Regner Trampedach

Staff Scientist, 3D Convection
Simulations, Space Science
Institute in Boulder, CO

Email: rtrampedach@spacescience.org

Dr. Savita Mathur

Head of Stellar and Solar
Seismology, Instituto de
Astrofísica de Canarias, in
Tenerife, Spain

Email: smathur@iac.es

Dr. Sachin Shenoy

Data pipeline scientist for
NASA's SOFIA, Space Science
Institute in Boulder, CO

Email: sachin.sofia@gmail.com