# CECILIA STEEL

## CONTACT INFO


**E-mail** czsteel@ucdavis.edu

**Phone** +1 215-704-9784

**Orcid** https://orcid.org/0009-0009-9245-4651

**Github** https://ceciliazsteel.github.io/

**LinkedIn** https://www.linkedin.com/in/cecilia-steel-63a958246


## EDUCATION

**BACHELOR OF SCIENCE** **2020-2024**
*University of Pittsburgh*

- Honors in Physics and Astronomy, Magna Cum Laude
- Minor in Mathematics

**PHYSICS PHD CANDIDATE** **2024-Present**
*University of California, Davis*

## RESEARCH

**MODELING STAR FORMATION HISTORIES OF GALAXIES AT HALF THE AGE OF THE UNIVERSE** **2022-2024**
*University of Pittsburgh*

- I measured empirically motivated star-formation history predictions of massive galaxies from the UniverseMachine model and compared to previously measured star formation histories derived directly from observations.

**SURVEY OF TRANSITING EXTRASOLAR PLANETS OF THE UNIVERSITY OF PITTSBURGH (STEPUP) MEMBER** **2022-2024**
*University of Pittsburgh*

- Member of an undergraduate research team that uses the Keeler Telescope at the Allegheny Observatory. We observe and detect exoplanets, collect and process data on their transits, and generate light curves.

## PUBLICATIONS

**A Comparison of Star-Formation Histories Derived from UniverseMachine and LEGA-C at $0.6 < z < 1$** (Steel et al. 2024) **2024**

**Capturing Complete Fraction of Rejuvenating Galaxies at $z \sim 0.8$ - Less Massive galaxies More Conducive of Resurrection** (in prep) **2024**

## CONFERENCES & POSTER PRESENTATIONS

**DUQUESNE SYMPOSIUM** **August 2022**
*Duquesne University*
(*Comparing BAGPIPES-derived Star Formation Histories to the UniverseMachine in Early Universe LEGA-C Galaxies* )

**CONFERENCES FOR UNDERGRADUATE WOMEN IN PHYSICS (CUWIP)** **January 2023**
*Pennsylvania State University*
(*Testing a Theoretical Model ("UniverseMachine") for Galaxy Star Formation Histories Derived from the LEGA-C Survey*)

**UNIVERSITY OF PITTSBURGH UNDERGRADUATE POSTER SESSION** **April 2023**
*University of Pittsburgh*
( *Testing a Theoretical Model ("UniverseMachine") for Galaxy Star Formation Histories Derived from the LEGA-C Survey*)

**UNIVERSITY OF PITTSBURGH UNDERGRADUATE POSTER SESSION** **November 2023**
*University of Pittsburgh*
( *Testing the Star-Formation Histories of Massive Galaxies in the UniverseMachine Model at $z\sim 0.8$ with the LEGA-C Survey*)

**AAS 243RD MEETING** **January 2024**
*New Orleans Ernest N. Morial Convention Center*
( *Testing the Star-Formation Histories of Massive Galaxies in the UniverseMachine Model at $z\sim 0.8$ with the LEGA-C Survey*)

**CONFERENCES FOR UNDERGRADUATE WOMEN IN PHYSICS (CUWIP)** **January 2024**
*United States Military Academy West Point*
( *Testing the Star-Formation Histories of Massive Galaxies in the UniverseMachine Model at $z\sim 0.8$ with the LEGA-C Survey*)

## AWARDS & HONORS

**NASA PENNSYLVANIA SPACE GRANT CONSORTIUM RESEARCH SCHOLARSHIP** **Summer 2022, Spring 2023, Summer 2023, Fall 2023**

**JULIA THOMPSON AWARD FOR EXCELLENCE IN UNDERGRADUATE WRITING** 2024

**MEMBER OF SIGMA PI SIGMA, THE NATIONAL PHYSICS HONOR SOCIETY** 2024

## WORKSHOPS

**PYTHON BOOT CAMP** 2022, 2023
*University of Pittsburgh*

## SKILLS

**PROGRAMMING LANGUAGES**

- Python
- Java
- MATLAB
- Mathematica

## REFERENCES


**Dr. Rachel Bezanson** — Associate Professor, Department of Physics & Astronomy, University of Pittsburgh, rachel.bezanson@pitt.edu

**Dr. Jeremy Levy** — Distinguished Professor, Department of Physics & Astronomy, University of Pittsburgh, jlevy@pitt.edu

**Dr. David Turnshek** — Professor, Department of Physics & Astronomy, University of Pittsburgh, turnshek@pitt.edu