ALIZA BEVERAGE

Email: abeverage@berkeley.edu
Website: alizabeverage.github.io

EDUCATION

University of California Berkeley, Ph.D, Astrophysics

May 2025 (expected)

Advisors: Profs. Mariska Kriek and Dan Weisz

University of California Berkeley, Masters of Arts, Astrophysics

August 2020

Advisors: Profs. Mariska Kriek and Dan Weisz

University of Minnesota Twin Cities, Bachelor of Science, Physics and Astrophysics June 2018

Advisor: Prof. Claudia Scarlata

RESEARCH INTERESTS

The formation and evolution of massive galaxies, star-formation quenching, stellar population modeling, galactic chemical evolution

SELECTED AWARDS AND HONORS

NSF Graduate Research Fellowship	2019 - 2024
Robert J. Trumpler Graduate Student Excellence Award	May 2024
H2H8 Fellowship	2022
AAS International Travel Grant	2021, 2023, 2024
Outstanding Astronomy GSI	2021
Maria Cranor Fellowship	2019 - 2025
Astronaut Scholarship	2018-2019

TELESCOPE PROPOSALS

James Webb Space Telescope

- 2. PI: Kriek, co-PIs: **Beverage** and Cheng, Cycle 3: GO 5629, Extremely deep spectroscopy of quiescent galaxies at $z\sim0.7$: A direct measurement of the stellar initial mass function beyond the low-redshift universe (40.3 hrs NIRspec)
- 1. PI: Kriek, co-PI: **Beverage**, Cycle I: GO 2110, Ultra-deep continuum spectroscopy of quiescent galaxies at 1.0 < z < 2.5: chemical abundances and stellar kinematics (22.7 hrs NIRspec)

Observing experience:

Keck I/II Telescopes (LRIS/MOSFIRE, 10 nights)

PRESENTATIONS

Conference, AGN feedback and Star Formation Across Cosmic Scales and Time, Sirolo	Sept 2024
Conference, IAU Symposium 391: The First Chapters of our Cosmic History with JWST	Aug 2024
OSU galaxy hour	May 2024
Texas A&M galaxy group meeting	Feb 2024
Colloquium, WSU	Nov 2023
Conference, A life devoted to stellar populations, Tenerife	Oct 2023
Edinburgh coffee talk	June 2023

Sept 2023
$\mathrm{Aug}\ 2023$
April 2023
May 2022
Sept 2022
Nov 2021
May 2021

TEACHING & MENTORSHIP

Research mentor to Yilun Ma, University of California Berkeley	2020 - 2022
Publication: Two Transitional Galaxies with AGN-Driven Outflows at $z\sim 2$ (in prep	.)
*Graduate Student Instructor, UC Berkeley 7B: Introduction to Astrophysics II	Spring 2020
Graduate Student Instructor, UC Berkeley 7A: Introduction to Astrophysics I	Fall 2019

^{*}Awarded Outstanding Astronomy GSI

OUTREACH & SERVICE

POWER – **Bay Area:** Student-led mentoring program and workshop series for Bay Area community college students interested in the physical sciences. powerbayarea.studentorg.berkeley.edu

POWER Coordinator 2022 - Present

Organized workshops for POWER participants that included financial aid and support network presentations, career and transfer student panels, and lab tours

POWER Mentor 2021

Professional development mentorship to a Bay Area community college student

MPS Scholars Mentor 2023

Professional development mentorship to a Berkeley undergrad

MPS Scholars Retreat Spring 2024

Graduate student panelist at professional development retreat for Berkeley undergrads

Climate & DEI Committee Rep 2020 – 2021

2022, 2024

Graduate student representative on the Berkeley Astronomy DEI committee

A day in the life of a scientist

Presentation to 80 4th graders about my career as an astrophysicist

Referee ApJ, A&A 2021 – Present

Respect is Part of Research Facilitator 2021

Bay Area Science Festival Discovery Day Volunteer

Skype a Scientist

April 2022
2021

Grad Student Postdoc Seminar Coordinator 2022 – Present

PUBLICATIONS

4 First-author, 3 Second- and Third-author (ADS)

First-author:

4. Carbon and Iron Deficiencies in Quiescent Galaxies at z=1-3 from JWST-SUSPENSE: Implications for the Formation Histories of Massive Galaxies

Beverage, A. G., Slob, M., Kriek, M., et al. in review at ApJ, (arXiv)

3. The Heavy Metal Survey: The Evolution of Stellar Metallicities, Abundance Ratios, and Ages of Massive Quiescent Galaxies since $z\sim 2$

Beverage, A. G., Kriek, M., Suess, K. A., et al. 2024, ApJ, 966, 234, DOI: 10.3847/1538-4357/ad372d [citations: 8]

- From Carbon to Cobalt: Chemical Compositions and Ages of z ~ 0.7 Quiescent Galaxies
 Beverage, A. G., Kriek, M., Conroy, C., et al. 2023, ApJ, 948, 140, DOI: 10.3847/1538-4357/acc176 [citations: 11]
- Elemental Abundances and Ages of z ~ 0.7 Quiescent Galaxies on the Mass-Size Plane: Implication for Chemical Enrichment and Star Formation Quenching
 Beverage, A. G., Kriek, M., Conroy, C., et al. 2021, ApJL, 917 L1, DOI: 10.3847/2041-8213/ac12cd [citations: 22]

Second- and Third-author:

- 3. Modeling the Ages and Chemical Abundances of Elliptical Galaxies
 Marcelina Gountanis, N., Weinberg, D. H., **Beverage**, A. G., et al. in review at ApJ, (arXiv)
- 2. The JWST-SUSPENSE Ultradeep Spectroscopic Program: Survey Overview and Star-Formation Histories of Quiescent Galaxies at 1 < z < 3 Slob, M., Kriek, M., **Beverage**, A. G., et al. in review at ApJ, (arXiv) [citations: 4]
- The Heavy Metal Survey: Star Formation Constraints and Dynamical Masses of 21 Massive Quiescent Galaxies at z = 1.3-2.3
 Kriek, M., Beverage, A. G., Price, Sedona H., et al. 2024, ApJ, 966, 1, DOI: 10.3847/1538-4357/ad2df9 [citations: 7]