Andrew Weldon

CONTACT INFORMATION

University of California Riverside
Department of Physics & Astronomy

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RESEARCH INTERESTS

Baryon Cycle: physical conditions and structure of the circumgalactic medium, properties of gaseous inflows and stellar-driven outflows, multi-phase structure of outflows, geometry of inflows and outflows

EDUCATION

University of California, Riverside (UCR) — Riverside, CA
Ph.D., Physics — 2019–2024 (expected)
Advisor: Naveen Reddy

M.S., Physics — 2020
Advisor: Naveen Reddy

The University of Arizona (UA) — Tucson, AZ
B.S., Astronomy and Physics, *magna cum laude* — 2014–2018

AWARDS, FELLOWSHIPS, AND HONORS

- **Outstanding First Year Graduate Student Award** — UCR, 2020
- **Chancellor's Distinguished Fellowship** — UCR, 2019
- **Arizona Space Grant Consortium Undergraduate Internship** — UA, 2016
- **Arizona Excellence Scholarship** — UA, 2014-2018

CONFERENCE TALKS

1. GalFRESCA 2023, Riverside, CA, *A Year in Review: Lyα Halos and Ionised Gas Outflows*
2. 240th American Astronomical Society Meeting (2022), Pasadena, CA, *The MOSDEF-LRIS Survey: Driving Mechanisms of Galactic-scale Outflows in z$\sim$2 Star-forming Galaxies*

TEACHING

Teaching Assistant in Physics and Astronomy, University of California, Riverside, USA.

- Cosmology — 2022-23
- Physics for Life Sciences Majors: Thermodynamics and Electromagnetism — 2020-23
- Physics for Engineering Majors: Mechanics — 2021-23
- Physics for Life Sciences Majors: Mechanics — 2019-22

SERVICE

UCR Physics Organization for Womxn and the Under-Represented — 2020-present
A self-advocacy group to improve the conditions for under-represented students and build a community within the Physics & Astronomy department.

REFEREED PUBLICATIONS

1. Rezaee S., et al. (incl. **Weldon A.**), Exploring the Correlation between Hα-to-UV Ratio and Burstiness for Typical Star-forming Galaxies at $z \sim 2$, MNRAS, 526, 1512, 2023
2. **Weldon A.**, et al., The MOSDEF-LRIS Survey: Detection of Inflowing Gas Towards Three Star-forming Galaxies at $z \sim$2, MNRAS, 523, 5624, 2023
3. **Weldon A.**, et al., The MOSDEF-LRIS Survey: Connection between Galactic-Scale Outflows and the Properties of $z \sim$2 Star-forming Galaxies, MNRAS, 515, 841, 2022
4. **Weldon A.**, et al., The Stellar Population of Metal-poor Galaxies at z $\approx$ 0.8 and the Evolution of the Mass–Metallicity Relation, MNRAS, 491, 2254, 2020