

Dr. Rebecca L. Larson

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EDUCATION

UNIVERSITY OF TEXAS AUSTIN

PH.D. IN ASTRONOMY

Galaxies in the Early Universe
2023

M.A. IN ASTRONOMY

Galaxies in the Early Universe
2018 | GPA: 3.8

B.S. IN ASTRONOMY

B.S. IN PHYSICS

Honors in Astronomy
2016 | GPA: 3.2

DEFENSE LANGUAGE INSTITUTE

A.A. IN ARABIC

2006 | GPA: 4.0

LINKS

Website: www.saturnswings.com
Twitter/Blue Sky: [@SaturnsWings](https://twitter.com/SaturnsWings)
Contact: saturnswings.carrd.co
Work Email: rlarson@stsci.edu
LinkedIn:// [saturnswings](https://www.linkedin.com/company/saturnswings)

SKILLS

ASTROPHYSICS

Spectral Line Fitting
Photometric Measurements
Multi-Object Spectroscopy
SED Fitting

PROGRAMMING

IDL • Python • Bash • HTML

WRITING

National Grant Fellowships
Telescope Proposals
Peer-Reviewed Research Publications
Science Communication

OBSERVING

17 Nights - Keck/MOSFIRE+LRIS
3 Nights - CTIO/DECam

MENTORING

REU Research Advisor

INTERESTS

Public Outreach
Science Communication
Volunteer Service
DEI Efforts
Veterans Services

WORK EXPERIENCE

SPACE TELESCOPE SCIENCE INSTITUTE | GIACCONI POSTDOC FELLOW

May 2025 - Present | Baltimore, MD

- PI of an observing program to obtain additional key imaging over the JWST legacy CEERS field.
- Research mentor for JHU graduate student.

ROCHESTER INSTITUTE OF TECHNOLOGY | POSTDOCTORAL

RESEARCH ASSOCIATE

Jun 2023 - May 2025 | Rochester, NY

- PI of an observing program to characterize the earliest galaxies and black holes with JWST spectroscopy.

THE UNIVERSITY OF TEXAS AT AUSTIN | GRADUATE STUDENT +

RESEARCH ASSISTANT + TEACHING ASSISTANT

Jun 2016 - May 2023 | Austin, TX

- PI of a multi-year survey searching for distant galaxies with the Keck Observatory.
- Discovered a new $z = 7.452$ galaxy with HST grism data.
- Improved the data pipeline for the Keck/MOSFIRE spectrograph
- Discovered a new galaxy at $z = 8.7$ with implications of an ionized bubble.
- Developed a suite of templates to improve model fits to early galaxies with JWST data.
- Discovered the most-distant active black hole, CEERS_1019, with JWST/NIRSpec data.

UNDERGRADUATE STUDENT + RESEARCH ASSISTANT + GRADER

Aug 2013 - May 2016 | Austin, TX

- Discovered the first observational evidence of the decay of turbulence in dense molecular clouds.

UNITED STATES AIR FORCE | ARABIC LINGUIST

Oct 2004 - Oct 2010 | Fort Meade, MD

- Translated audio and written sources from Arabic.
- Handled classified intelligence information with a top secret clearance.
- Monitored multiple databases.
- Managed a team of eight.

PUBLICATION SUMMARY

LEAD AUTHOR: 7 - CITATIONS: 612 | TOTAL PAPERS: 67 - CITATIONS: 5254

Detailed list below — Last Updated 23-Oct-2025 — [Link to ADS Library](#)

AWARDS

FELLOWSHIPS + SCHOLARSHIPS

- David Alan Benfield Memorial Fellowship in Astronomy - Department of Astronomy, UT Austin - Summer 2022
- DAWN-IRES Visiting Scholar, DAWN, Copenhagen Summer 2021
- National Science Foundation Graduate Research Fellowship (NSF-GRFP), 2018-2023
- IPAC Visiting Graduate Student Fellowship, Caltech, Feb-Aug 2018
- Dean's Honored Graduate Award, UT Austin, College of Natural Sciences, - May 2016
- Ralph Cutler Green Endowed Scholarship, UT Austin, Department of Astronomy, - May 2015
- Karl G. Henze Endowed Scholarship, UT Austin, Department of Astronomy, - May 2014

FUNDED GRANT PROPOSALS

PRINCIPAL INVESTIGATOR

- NASA JWST Cycle 4 GO - \$355k, *SPAM: Star-formation from Photometry through the Addition of Medium-bands*, 2025 - 2028
- NASA JWST Cycle 3 GO - \$379k, *Deep Spectroscopy of Galaxies at $z = 4 - 14$: Uncovering Drivers of Early Galaxy Formation and Black Hole Growth*, 2024 - 2027
- NASA Keck Observatory/MOSFIRE - \$70k, *Islands of Reionization*, 2018-2020
- National Science Foundation Graduate Research Fellowship (NSF-GRFP) - \$100k, *Understanding Galaxy Evolution Since the Beginning*, 2019 - 2022

CO-INVESTIGATOR

- NASA James Webb Space Telescope - Archival Funding, Cycle 1, *Leveraging Early Public JWST Data to Measure Luminosity Functions and Rest-UV Slopes from $6 < z < 12$* , 2021
- NASA Astrophysics Data Analysis Program (NASA-ADAP), *Leveraging Spitzer and HETDEX to Constrain Reionization*, 2019-2022
- MPS Graduate Research Supplement for Veterans (MPS-GRSV), *Spectroscopic Probes of Reionization and Galaxy Evolution in the First Billion Years*, 2018 - 2019
- NASA Astrophysics Data Analysis Program (NASA ADAP), *Reference Ultraviolet Luminosity Functions for the JWST Era*, 2017 - 2020
- MPS Graduate Research Supplement for Veterans (MPS-GRSV), *Spectroscopic Probes of Reionization and Galaxy Evolution in the First Billion Years*, 2017 - 2018

AWARDED TELESCOPE TIME

PRINCIPAL INVESTIGATOR

- NASA JWST Cycle 4 GO - 62.8 Hours, *SPAM: Star-formation from Photometry through the Addition of Medium-bands*, 2025
- NASA JWST Cycle 3 GO - 23.29 Hours, *Deep Spectroscopy of Galaxies at $z = 4 - 14$: Uncovering Drivers of Early Galaxy Formation and Black Hole Growth*, 2024
- McDonald Observatory - Hobby Eberly Telescope/LRS2 2019-3 - 9 hours, *Spectroscopically Confirming the Brightest High-Redshift Galaxies in SHELA*, Fall 2019
- NASA Keck Observatory/MOSFIRE 2019B - Two Nights, *Islands of Reionization*, Dec 2019
- NASA Keck Observatory/MOSFIRE 2019A - Two Nights, *Islands of Reionization*, Mar 2019
- NASA Keck Observatory/MOSFIRE 2018B - Two Nights, *Islands of Reionization*, Nov 2018
- NASA Keck Observatory/MOSFIRE 2018A - Two Nights, *Islands of Reionization*, Apr 2018
- McDonald Observatory - Hobby Eberly Telescope/LRS2 2017-2 - 13 hours, *Confirmation of Ly α Emission in Galaxies at the End of Reionization*, Fall 2017
- McDonald Observatory - Hobby Eberly Telescope/LRS2 2017-1 - 13 hours, *Confirmation of Ly α Emission in Galaxies at the End of Reionization*, Spring 2017

CO-INVESTIGATOR

- NASA JWST Cycle 4 GO - 246.2 Hours, *Vast Exploration for Nascent, Unexplored Sources (VENUS)*, 2025
- NASA JWST Cycle 4 GO - 62.9 Hours, *Searching for Population III stars around massive interacting galaxies in the reionization epoch*, 2025
- NASA JWST Cycle 4 GO - 60.9 Hours, *Resolving Multi-phase Outflow/Inflow via Gas Dynamics and Chemical Abundance Distribution in a Sub- L^* Dwarf Galaxy at $z=6.1$* , 2025
- NASA Hubble Space Telescope - 642 Orbits, Cycle 32-34, *CLUTCH: The COSMOS Legacy UV-Optical Treasury Campaign with Hubble* 2024
- NASA JWST Cycle 3 GO - 61.83 Hours, *What really are the Physical Properties of Galaxies in the Epoch of Reionization?*, 2024
- NASA JWST Cycle 3 GO - 193.98 Hours, *The CANDELS-Area Prism Epoch of Reionization Survey (CAPERS)*, 2024
- NASA JWST Cycle 3 GO - 400.00 Hours, *POPPIES: The Public Observation Pure Parallel Infrared Emission-Line Survey*, 2024
- NASA JWST Cycle 3 GO - 73.95 Hours, *MEOW: The MIRI Early Obscured-AGN Wide Survey*, 2024
- NASA JWST Cycle 3 AR, *A Census of Optical Diagnostics of Ionizing Sources Across Cosmic Time*, 2024
- NASA JWST Cycle 3 GO - 22.65 Hours, *Mapping Star Cluster Feedback in a Galaxy 500 Myr after the Big Bang*, 2024
- NASA Hubble Space Telescope - AR, Cycle 31 - *The Role of Galaxy Mergers and Interactions in Fueling Star Formation and Black Hole Activity*, 2023

- NASA JWST Cycle 2 GO - 24.5 Hours, *Breaking the $z = 10$ barrier with MIRI: redshift confirmation and detection of rest-frame optical emission lines*, 2023
- NASA JWST Cycle 2 GO - 10.1 Hours, *Unveiling the Most Distant Lensed Arc at $z \sim 10$* , 2023
- NASA JWST Cycle 2 GO - 17.8 Hours, *Physical Properties of a Possible Galaxy Merger at $z = 10.2$* , 2023
- NASA JWST Cycle 1 DDT - 8 Hours, *Spectroscopic follow-up of ultra-high- z candidates in CEERS: Characterizing true $z > 12$ galaxies and z 4-7 interlopers in preparation for JWST Cycle 2*, 2022
- ALMA Cycle 9 - 20 Hours, *Dust in galaxies at $z = 8 - 11$* , 2022
- NASA JWST Cycle 1 GO - 121.7/96.4 Hours, *The Next Generation Deep Extragalactic Exploratory Public (NGDEEP) Survey: Feedback in Low-Mass Galaxies from Cosmic Dawn to Dusk*, 2021
- NASA JWST Cycle 1 GO - 18.1 Hours, *Spectroscopic Confirmation and Characterization of Bright Galaxies at z 9*, 2021
- NASA JWST Cycle 1 GO - 17.8 Hours, *The JWST-legacy Narrow-band Survey of H-alpha and [OIII] Emitters in the Epoch of Reionization*, 2021
- NASA JWST Cycle 1 GO - 2.6 Hours, *Confirming a Potential Ultra-Massive Galaxy at $z=10.57$* , 2021
- NASA JWST Cycle 1 GO - 187.2/94.97 Hours, *PRIMER: Public Release IMaging for Extragalactic Research*, 2021
- NASA Keck Observatory/MOSFIRE 2021A - Two Nights, *CEERS proposal to target $z > 7$ Ly α ($z \sim 4-5$ rest-UV) in the EGS field*, Apr 2021
- ALMA Cycle 8 - 17.8 Hours, *[O iii] 88 μ m and Dust Continuum Observations of Two Remarkably Luminous Galaxies at $z \sim 10$* , 2021
- ALMA Cycle 8 - 2 Hours, *Deep CII 158 μ m Spectroscopy of the Brightest, dusty [O iii] 88 μ m emitter at $z = 10.57$* , 2021
- NASA Keck Observatory/MOSFIRE 2020B - Two Nights, *Using Nebular UV Metal Lines to Probe Redshifts and Physical Conditions in Galaxies During Reionization*, Oct/Dec 2020
- NASA Hubble Space Telescope - 52 Orbits, Cycle 28/29, *TREASUREHUNT: Hubble's UV-Visible treasury imaging of the JWST NEP Time-Domain Field 2020*
- NASA Keck Observatory/MOSFIRE 2020A - Two Nights, *Using Nebular UV Metal Lines to Probe Redshifts and Physical Conditions in Galaxies During Reionization*, Feb 2020
- NASA Hubble Space Telescope - 15 Orbits, Cycle 27, *Confirmation of a Large, Robust Sample of $z=9-10$ Galaxies in the CANDELS Fields*, 2019
- NASA Hubble Space Telescope - 5 Orbits, Cycle 27, *Observations of the JWST/GTO Very Rich Cluster Lens RMJ121218.5+273255.1*, 2019
- ALMA Cycle 7 - [O iii] 88 μ m Line Observations of Four Remarkably Luminous Galaxies at $z \sim 9-10$, 2019
- ALMA Cycle 7 - *Confirming the Quiescent Nature of Galaxies at $z = 4$* , 2019
- NASA Keck Observatory/NIRES 2019B - Two Nights, *Spectroscopic Characterization of the Brightest Known Galaxy Candidate at $z > 9$* , Jan 2020
- NASA Spitzer Space Telescope - 687hr IRAC, *The Euclid Deep Field South*, 2019
- NASA Hubble Space Telescope - 2 orbits, Cycle 26 - *Photometric Confirmation of the Brightest Known Galaxy Candidate at $z > 9$* , 2019
- McDonald Observatory - Hobby Eberly Telescope/VIRUS 2017-2 - 13 hours, *TESLA: The Texas Euclid Survey for Lyman Alpha*, Fall 2018
- Co-I - JWST Early Release Science (JWST ERS), *The Cosmic Evolution Early Release Science (CEERS) Survey*, Nov 2017

SCIENCE TALKS AND PRESENTATIONS

INVITED TALKS

- Colloquium Talk on JWST Galaxy Discoveries, Nov 2025, - UMass, Amherst, MA
- 2025 HotSci at JHU/STScI: High-Redshift Galaxies, July 2025, - STScI, Baltimore, MD - [Link to Recording](#)
- Colloquium Talk on JWST Galaxy Discoveries, April 2025, - UConn, Mansfield, CT
- Inaugural Tinsley Workshop: JWST View of the First Galaxies and Black Holes, Oct 2024, - Yale, New Haven, CT
- Massive Black Holes in the First Billion Years Conference, May 2024, - Kinsale, Ireland
- Arab Physical Society, Seminar, Mar 2024, - Virtual - [Link to Recording](#)
- AGN Seminar, Dec 2023, - NASA Goddard, Greenbelt, MD
- Special Seminar at STScI on JWST, Dec 2023, - STScI, Baltimore, MD
- Colloquium Talk on JWST Galaxy Discoveries, Nov 2023, - PennState, State College, PA
- NASA Science Mission Directorate Monthly Meeting, Sep 2023, - Virtual - NASA HQ, Washintgon DC

- Science with the Habitable Worlds Observatory, July 2023, - STScI, Baltimore, MD - [Link to Recording](#)
- Colloquium Talk on JWST Galaxy Discoveries, April 2023, - UIUC, Urbana-Champaign, IL
- Galaxies Seminar Talk, October 2022, - Virtual - University of Kansas
- Galaxies Group Paper Series, April 2022, - Virtual - Max Planck
- Student Veterans of America National Conference, Jan 2022, - Orlando, CA - Presenter
- Princeton Papers Seminar, November 2021, - Virtual - UCLA
- Caltech Tea Talk, October 2021, - Virtual - Caltech
- NASA JPL Astrophysics Seminar, October 2021, - Virtual - JPL
- UCLA Galaxies Seminar, October 2021, - Virtual - UCLA
- DAWN Cake Talk Series, July 2021, - Virtual - DAWN Center, Copenhagen, Denmark
- Early Universe/Reionization Era Conversations at Arizona (EURECA) Seminar, April 2020, - Virtual - Tucson, AZ
- Gemini Observatory Talk Series, Feb 2020, - Hilo, HI
- Conference for Undergrad Women in Physics (CUWiP), Jan 2020, - College Station, TX - Panelist
- Student Veterans of America National Conference, Jan 2020, - Los Angeles, CA - Presenter
- WFIRST/LSST/EUCLID Deep Field Coordination, Aug 2018, Princeton, NJ - Invited Talk

CONFERENCE TALKS

- American Astronomical Meeting 2026, Jan 2026, Phoenix, AZ
- 2025 Inaugural CFC Conference, May 2025, - UT Austin, Austin, TX - [Link to Recording](#)
- First Stars VII Meeting 2024, May 2024, CCA, New York, NY
- American Astronomical Meeting 2024, Jan 2024, New Orleans, LA
- First Light with JWST, June 2023, MIT, Boston, MA
- American Astronomical Meeting 2022, Jun 2022, Pasadena, CA
- The growth of galaxies in the Early Universe - VII, Mar 2022, Sesto val Pusteria, Italy
- Keck Science Meeting 2021, Sep 2021, UCSC - San Diego, CA, - [Video Recording](#)
- Summer All Zoom Epoch of Reionization Astronomy Conference (SAZERAC), June 2021, - [Online Talk](#)
- Summer All Zoom Epoch of Reionization Astronomy Conference (SAZERAC), July 2020, - [Online Talk](#)
- Keck Science Meeting 2019, Sep 2019, UCLA - Los Angeles, CA
- 'Barefoot EoR' Exploring the first billion years of the Universe, Jul 2019, Cairns, Australia
- COSMOS Meeting, Jun 2018, DAWN Institute - Copenhagen, Denmark
- GISS IPAC Talk Series, Jun 2018, Caltech - Pasadena, CA
- CANDELS SED Fitting Meeting, Apr 2018, UC Riverside - Riverside, CA
- Star Formation in the JWST Era, Oct 2017, Texas A&M University - College Station, TX
- Spectral Diagnostics to Explore the Cosmic Dawn with JWST, Aug 2017, Space Telescope Science Institute - Baltimore, MD
- The Snowbird Cosmic Lyman-Alpha Workshop (SnowCLAW), Mar 2017, Salt Lake City, UT

CONFERENCE POSTERS

- First Year of JWST Science, Sep 2023, STScI - Baltimore, MD
- American Astronomical Society Winter Meeting, Jan 2021, Virtual
- Keck Science Meeting 2020, Sep 2020, Virtual
- American Astronomical Society Winter Meeting, Jan 2020, Honolulu, HI
- Frank N. Bash Symposium, Oct 2019, UT Austin - Austin, TX
- IAU Symposium 352 - Uncovering Early Galaxy Evolution in the ALMA and JWST Era, Jun 2019, Viana do Castelo, Portugal
- American Astronomical Society Winter Meeting, Jan 2019, Seattle, WA
- Keck Science Meeting, Sep 2018, Caltech - Pasadena, CA
- American Astronomical Society Winter Meeting, Jan 2018, Washington, D.C.
- Frank N. Bash Symposium, Oct 2017, UT Austin - Austin, TX
- American Astronomical Society Summer Meeting, Jun 2017, Austin, TX
- American Astronomical Society Winter Meeting, Jan 2017, Grapevine, TX
- American Astronomical Society Winter Meeting, Jan 2016, Orlando, FL
- Frank N. Bash Symposium, Oct 2015, UT Austin - Austin, TX
- International Astronomical Union XXIX General Assembly, June 2015, Honolulu, HI - 2 Posters
- Frank N. Bash Symposium, Oct 2013, UT Austin - Austin, TX

SCIENCE COMMUNICATION AND PUBLIC RELATIONS

PRESS RELEASES

- NASA - *JWST Detects Most Distant Active Supermassive Black Hole to Date*, Results from Larson+23, Jul 2023 - [Link](#)
- NASA - *New 3D Visualization Highlights 5,000 Galaxies Revealed by JWST*, Coordinated Visualization, Jul 2023 - [Link](#)
- NASA - *Webb Offers Never-Before-Seen Details of Early Universe*, Author/Visualization Designer, Oct 2022 - [Link](#)

ARTICLES

- Sky & Telescope Magazine - *JWST Reveals the Early Universe*, Co-Author, Oct 2023
- CEERS Team Website - *CEERS Epoch 1 Color Images*, Author/Designer, Oct 2022 - [Link to Webpage](#)
- UT Austin College of Science - *The Unexpected Journey of a Veteran Student and Astronomer*, Featured Biography, May 2016 - [Link to Article](#)

INTERVIEWS

- Science Alert - *The Earliest Supermassive Black Hole Ever Found Has Been Identified*, Interviewed, July 2023 - [Link to Article](#)
- UT Austin News - *Turning the Page*, Featured and Interviewed, July 2023 - [Link to Article](#)
- Rochester Local News - *RIT researchers discover most distant black hole yet, larger than they thought possible*, Recorded Interview, Jul 2023 - [Link to TV Episode](#)
- UT Austin News - *Honoring Graduating Veterans*, Featured and Interviewed, May 2023 - [Link to Article](#)
- Big Think - *Did the most distant galaxy "candidates" survive JWST's ultimate test?*, Consultant, Mar 2023 - [Link to Article](#)
- PBS Nova - *New Eye on the Universe*, Recorded Interviews, Feb 2023 - [Link to TV Episode](#)
- Quanta Magazine - *Two Weeks In, the JWST Is Reshaping Astronomy*, Interviewed, July 2022 - [Link to Article](#)

PUBLIC OUTREACH AND EDUCATION

TALKS AND PRESENTATIONS

- Finding Genius Podcast Interview; [Link](#), Oct 2023
- Keck Observatory Public Science Talk; [Live Virtual Presentation](#), Jan 2023
- Astronomy on Tap Jena; [Live YouTube Presentation](#), October 2022
- Astronomy on Tap LA; [Live YouTube Presentation](#), April 2021
- Astronomy on Tap Groningen; [Live YouTube Presentation](#), March 2021
- The Earth is Flat on Planet Pluto; [Live YouTube Interview](#), July 2020
- Starts with a Bang #60; Forbes Podcast, [Link](#), July 2020
- Better Satellite Worlds Summer Series; Space & Satellite Professionals International Podcast, [Link](#), June 2020
- Speaker - KLRU: PBS Austin Next Night - Apollo 11 Documentary; Austin, TX, June 2019
- Astronomy on Tap ATX; Austin, TX, Nov 2018 - [YouTube Recording](#)
- Astronomy on Tap LA; Pasadena, CA, Jul 2018
- Astronomy on Tap Santa Barbara; Santa Barbara, CA, May 2018 - [YouTube Recording](#)
- Austin Astronomical Society General Meeting; Austin, TX, Oct 2017
- Astronomy on Tap ATX; Austin, TX, Apr 2016 - [YouTube Recording](#)

HOST/ORGANIZER

- Organizer - [Astronomy on Tap ATX](#); Austin, TX, 2014 - 2023
- Organizer - Drunk Science Show with Sarafina Nance; [YouTube](#), Apr 2020 - 2021
- Host/Organizer - Astronomy on the Couch World-wide live-stream event; [YouTube](#), April 2020
- Host/Presenter/Organizer - Star Party and Concert fundraiser for Jester King Farms; Austin, TX, Feb 2020

SOCIAL MEDIA LEAD

- Social Media Lead - [Cosmic Evolution Early Release Science \(CEERS\) Team](#); Austin, TX, 2022 - Present
- Social Media Lead - [Cosmic Spring Collaboration](#); Austin, TX, 2022 - Present

VOLUNTEER/ACTIVITY LEAD

- Volunteer - Rochester Museum and Science Center - Astronomy on Tap Eclipse Edition, Rochester, NY, Apr 2024
- Activity Lead - Austin Camp Contemporary Art Education Fundraiser; Austin, TX, Oct 2019
- Activity Lead - Thinkery 21: It Came from the Future; Austin, TX, Oct 2019
- Volunteer - UT Austin Introduce a Girl to Engineering Day; Austin, TX, Feb 2019
- Volunteer - AstroFest - Week of Astronomy; Pasadena, CA, Jul 2018

- Volunteer - Jet Propulsion Lab (JPL) Open House; Pasadena, CA, Jun 2018
- Volunteer - UT Austin Introduce a Girl to Engineering Day; Austin, TX, Feb 2017

ACADEMIC SERVICE AND EXPERIENCE

TEACHING

- Guest Lecturer - Galaxies for Science Majors, 30 students, Spring 2025
- TA - Intro to Astronomy for Non-Science Majors, 200 students, Fall 2018

STUDENT ADVISING

- Science Advisor for JHU Graduate Student, Ananya Ganapathy, 2025-Present
- Graduate Student Mentor/Instructor/Organizer for DAWN Summer REU, Summer 2021
- REU Science Advisor for UT Austin REU Student, Blakely Aaronson, Summer 2019
- Informal Mentor for UT Austin TAURUS Summer Student, Oscar Chavez-Ortiz, Summer 2019

OBSERVATORY SUPPORT

- NASA Keck Observatory 2026B Time Allocation Committee, Panel Chair, 2026
- NASA Keck Observatory 2026A Time Allocation Committee, 2025
- Hubble Space Telescope Cycle 32 Time Allocation Committee, 2023
- Gemini Observatory Science and Technology Advisory Committee Member, Fall 2023-Present

DEPARTMENT SERVICE

- College of Natural Sciences Dean's Search Committee Astronomy Department Graduate Student Representative, 2021
- College of Natural Sciences Dean's Council Astronomy Department Graduate Student Representative, 2019-2021
- Astronomy Department Graduate Student Representative, 2018 - 2019
- Astronomy Department Undergraduate Student Representative, 2015 - 2016

CONFERENCES

- SOC Co-Chair - STScl Spring Symposium - Low Metallicity Environments, 2025-2026
- LOC - CEERS Team Meeting, May 2023

WORKSHOPS

- JWST Master Class Workshop; College Station, TX Feb 2020 - LOC
- JWST Master Class Workshop; Austin, TX Jan 2020 - LOC
- JWST Proposal Planning Workshop; Honolulu, HI, Jan 2020
- ALMA Community Day; Austin, TX Apr 2019
- JWST Proposal Planning Workshop; Austin, TX, Jun 2017
- ALMA Proposal and Data Reduction Workshop; Austin, TX Apr 2017

FUNDRAISING

- Speaker - McDonald Observatory Board of Visitors Recruitment Meeting; Houston, TX, May 2019
- Speaker - McDonald Observatory Board of Visitors Meeting; Austin, TX, Feb 2019
- Speaker - McDonald Observatory Board of Visitors Recruitment Meeting; Dallas, TX, Nov 2018

COMMUNITY BUILDING AND SERVICE

FOUNDER/PRESIDENT

- Co-Founder - [Student Veterans Research Network](#), 2021 - Present
- Co-Founder, President - [UT Student Veterans Association](#); Austin, TX, 2013-2019
- Founder + Organizer - UT Women Veterans Group; Austin, TX 2013 - 2023

MEMBER

- Representative - UT Military and Veteran Advisory Council; Austin, TX 2015 - 2023
- Founding Member - [UT Association for Women in Astronomy Research and Education \(AWARE\)](#); Austin, TX 2013 - 2023
- Member, Board Member - [Austin Junior Forum](#) Womens' Volunteer Organization; Austin, TX, 2013-2019

PUBLICATIONS

LEAD AUTHOR: 7 - CITATIONS: 612 | TOTAL PUBLICATIONS: 67 - CITATIONS: 5254 (AS OF 23-OCT-2025) — [Link to ADS](#)

FIRST-AUTHORED PAPERS

- Hutchison, T.A., + **Larson, R. L.**, Arrabal Haro, P., et al., *THRILS – The High-(Redshift+Ionization) Line Search: Program Description & Redshift Catalog* - 2025, Submitted
- Lambrides, E., + **Larson, R. L.**, + Hutchison, T.A., et al., *Discovery of Multiply Ionized Iron Emission Powered by an Active Galactic Nucleus in a $z \sim 7$ Little Red Dot* - 2025, arXiv:2509.09607 (**4 citations**)
- Larson, R. L.**, Finkelstein, S. L., Kocevski, D. D., et al., *A CEERS Discovery of an Accreting Supermassive Black Hole 570 Myr after the Big Bang: Identifying a Progenitor of Massive $z > 6$ Quasars* - 2023, ApJL, 953, 29 (**375 citations**)
- Larson, R. L.**, Hutchison, T. A., Bagley, M., et al., *Spectral Templates Optimal for Selecting Galaxies at $8 < z < 10$ with JWST* - 2022, ApJL, 958, 141 (**110 citations**)
- Larson, R. L.**, Finkelstein, S. L., Hutchison, T. A., et al., *Searching for Islands of Reionization: A Potential Ionized Bubble Powered by a Spectroscopic Overdensity at $z = 8.7$* - 2022, ApJ, 930, 104 (**74 citations**)
- Larson, R. L.**, Finkelstein, S. L., Pirzkal, N., et al., *Discovery of a $z = 7.452$, High-Equivalent-Width Lyman- α Emitter from the Hubble Space Telescope Faint Infrared Grism Survey* - 2018, ApJ, 858, 94 (**34 citations**)
- Larson, R. L.**, Evans, N. J., II, Green, J. D., Yang, Y.-L., *Evidence for Decay of Turbulence by MHD Shocks in the ISM via CO Emission* - 2015, ApJ, 806, 70 (**15 citations**)

CONTRIBUTING-AUTHORED PAPERS

- Lambrides, E., **Larson, R. L.**, Garofali, K., et al., *The Case for Super-Eddington Accretion: Connecting Weak X-ray and UV Line Emission in JWST Broad-Line AGN During the First Gyr of Cosmic Time* - 2024, arXiv:2409.13047 (**81 citations**)
- Abdurrouf, **Larson, R. L.**, Coe, D., et al., *JWST NIRSpec High-resolution Spectroscopy of MACS0647-JD at $z = 10.167$: Resolved [O ii] Doublet and Electron Density in an Early Galaxy* - 2024, arXiv:2404.16201 (**33 citations**)
- Hsiao, T. Y. Y., Álvarez-Márquez, J., Coe, D., et al., (**Larson, R. L. 7 of 33**), *JWST MIRI detections of H α and [O iii] and direct metallicity measurement of the $z = 10.17$ lensed galaxy MACS0647-JD* - 2024, arXiv:2404.16200 (**37 citations**)
- Cooper, O. R., Casey, C. M., Akins, H. B., et al., (**Larson, R. L. 10 of 36**), *The Web Epoch of Reionization Ly α Survey (WERLS) I. MOSFIRE Spectroscopy of $z \sim 7-8$ Ly α Emitters* - 2023, arXiv:2309.06656 (**11 citations**)
- Fujimoto, S. L., Finkelstein, S. F., Burgarella, D., et al., (**Larson, R. L. 22 of 53**), *ALMA FIR View of Ultra-high-redshift Galaxy Candidates at $z \sim 11-17$: Blue Monsters or Low- z Red Interlopers?* - 2023, ApJ, 955, 130 (**60 citations**)
- Chavez Ortiz, O. A., Finkelstein, S. F., Davis, D., et al., (**Larson, R. L. 7 of 29**), *Introducing the Texas Euclid Survey for Ly α (TESLA) Survey: Initial Study Correlating Galaxy Properties to Ly α Emission* - 2023, ApJ, 952, 110 (**10 citations**)
- Arrabal Haro, P., Dickinson, M., Finkelstein, S. F., et al., (**Larson, R. L. 14 of 37**), *Confirmation and refutation of very luminous galaxies in the early universe* - 2023, Nature, 622, 707 (**243 citations**)
- Jung, I., Finkelstein, S. L., Arrabal Haro, P., et al., (**Larson, R. L. 8 of 32**), *CEERS: Diversity of Lyman-Alpha Emitters during the Epoch of Reionization* - 2023, ApJ, 967, 73 (**69 citations**)
- Hsiao, T. Y. Y., Coe, D., Abdurrouf, et al., (**Larson, R. L. 4 of 42**), *JWST NIRSpec spectroscopy of the triply-lensed $z = 10.17$ galaxy MACS0647 - JD* - 2023, arXiv:2305.03042 (**132 citations**)
- Fujimoto, S. L., Arrabal Haro, P., Dickinson, M., et al., (**Larson, R. L. 6 of 42**), *CEERS Spectroscopic Confirmation of NIRCам-Selected $z > 8$ Galaxy Candidates with JWST/NIRSpec: Initial Characterization of their Properties* - 2023, ApJL, 949, 25 (**172 citations**)
- Finkelstein, S. L., Bagley, M., Ferguson, H. C., et al., (**Larson, R. L. 16 of 67**), *CEERS Key Paper I: An Early Look into the First 500 Myr of Galaxy Formation with JWST* - 2022, ApJL, 946, 13 (**532 citations**)
- Jung, I., Finkelstein, S. L., **Larson, R. L.**, et al., *New $z > 7$ Lyman-alpha Emitters in EGS: Evidence of an Extended Ionized Structure at $z \sim 7.7$* - 2023, arXiv:2212.09850 (**36 citations**)
- Leung, G. C. K., Bagley, M., Ferguson, H. C., et al., (**Larson, R. L. 5 of 14**), *The Spitzer-HETDEX Exploratory Large Area Survey. IV. Model-Based Multi-wavelength Photometric Catalog* - 2023, ApJS, 269, 46 (**1 citations**)
- Bradley, L. D., Coe, D., Brammer, G., et al., (**Larson, R. L. 5 of 27**), *High-Redshift Galaxy Candidates at $z=9-13$ as Revealed by JWST Observations of WHL0137-08* - 2022, ApJ, 955, 13 (**80 citations**)
- Finkelstein, S. L., Bagley, M., Arrabal Haro, P., et al., (**Larson, R. L. 12 of 120**), *A Long Time Ago in a Galaxy Far, Far Away: A Candidate $z \sim 12$ Galaxy in Early JWST CEERS Imaging* - 2022, ApJ, 940, 55 (**357 citations**)
- Finkelstein, S. L., Bagley, M., Song, M., et al., (**Larson, R. L. 4 of 22**), *A Census of the Bright $z = 8.5-11$ Universe with the Hubble and Spitzer Space Telescopes in the CANDELS Fields* - 2022, ApJ, 928, 52 (**125 citations**)
- Jung, I., Finkelstein, S. L., Dickinson, M., et al., (**Larson, R. L. 5 of 16**), *Texas Spectroscopic Search for Ly α Emission at*

the End of Reionization III. The Ly α Equivalent-width Distribution and Spatial Clustering of LAEs at $z \gtrsim 7$ - 2020, ApJ, 904, 144 (**145 citations**)

- Jung, I., Finkelstein, S. L., Dickinson, M., et al., (**Larson, R. L. 5 of 15**) , *Texas Spectroscopic Search for Ly α Emission at the End of Reionization II. The Deepest Near-Infrared Spectroscopic Observation at $z \gtrsim 7$* - 2019, ApJ, 877, 146 (**27 citations**)
- Fogarty, K., Postman, M., **Larson, R. L.** , et al., *The Relationship Between Brightest Cluster Galaxy Star Formation and the Intracluster Medium in CLASH* - 2017, ApJ, 846, 103 (**32 citations**)
- Pirzkal, N., Malhotra, S., Ryan, R. E., et al., (**Larson, R. L. 9 of 29**) , *FIGS – Faint Infrared Grism Survey: Description and Data Reduction* - 2017, ApJ, 846, 84 (**49 citations**)

CO-AUTHORED PAPERS

- Cox, I. G., Kartaltepe, J. S., Bagley, M. B., et al., (**Larson, R. L. 25 of 38**) , *The CEERS Photometric and Physical Parameter Catalog* - 2025, 2510.08743
- Jeon, J., Liu, B., Bormm, V., et al., (**Larson, R. L. 7 of 10**) , *Little Red Dots and their Progenitors from Direct Collapse Black Holes* - 2025, arXiv:2508.14155
- Cleri, N. J., Olivier, G. M., Backhaus, B. E., et al., (**Larson, R. L. 23 of 27**) , *Optical Strong Line Ratios Cannot Distinguish Between Stellar Populations and Accreting Black Holes at High Ionization Parameters and Low Metallicities* - 2025, arXiv:2506.21660
- Kokorev, V., Chisolm, J., Endsley, R., et al., (**Larson, R. L. 11 of 11**) , *Silencing the Giant: Evidence of AGN Feedback and Quenching in a Little Red Dot at $z = 4.13$* - 2024, arXiv:2407.20320
- Napolitano, L., Pentericci, L., Santini, P., et al., (**Larson, R. L. 25 of 33**) , *Peering into cosmic reionization: Ly α visibility evolution from galaxies at $z = 4.5-8.5$ with JWST* - 2024, A&A, 688, 106
- Taylor, A. J., Finkelstein, S. L., Kocevski, D. D., et al., (**Larson, R. L. 37 of 51**) , *Broad-Line AGN at $3.5 < z < 6$: The Black Hole Mass Function and a Connection with Little Red Dots* - 2024, arXiv:2409.06772
- Faisst, A. L., Brinch, M., Casey, C. M., et al., (**Larson, R. L. 37 of 52**) , *COSMOS-Web: The Role of Galaxy Interactions and Disk Instabilities in Producing Starbursts at $z < 4$* - 2024, arXiv:2405.09619
- O'Brien, R., Jansen, R. A., Grogin, N. A., et al., (**Larson, R. L. 36 of 58**) , *TREASUREHUNT: Transients and Variability Discovered with HST in the JWST North Ecliptic Pole Time Domain Field* - 2024, ApJS, 272, 19
- Pirzkal, N., Rothberg, B., Papovich, C., et al., (**Larson, R. L. 45 of 52**) , *The Next Generation Deep Extragalactic Exploratory Public Near-Infrared Slitless Survey Epoch 1 (NGDEEP-NISS1): Extra-Galactic Star-formation and Active Galactic Nuclei at $0.5 < z < 3.6$* - 2023, arXiv:2312.09972
- Chworowsky, K., Finkelstein, S. L., Boylan-Kolchin, M., et al., (**Larson, R. L. 25 of 39**) , *Evidence for a Shallow Evolution in the Volume Densities of Massive Galaxies at $z = 4$ to 8 from CEERS* - 2023, arXiv:2311.14804
- Finkelstein, S. L., Leung, G. C. K., Bagley, M. B., et al., (**Larson, R. L. 42 of 55**) , *The Complete CEERS Early Universe Galaxy Sample: A Surprisingly Slow Evolution of the Space Density of Bright Galaxies at $z \sim 8.5 - 14.5$* - 2023, arXiv:2311.04279
- Urbano Stawinski, S. M., Cooper, M. C., Finkelstein, S. F., et al., (**Larson, R. L. 12 of 14**) , *Deeper than DEEP: A Spectroscopic Survey of $z > 3$ Lyman- α Emitters in the Extended Groth Strip* - 2024, MNRAS, 528, 5624
- Champagne, J. B., Casey, C. M., Finkelstein, S. L., et al., (**Larson, R. L. 6 of 8**) , *A Mixture of LBG Overdensities in the Fields of Three $6 < z < 7$ Quasars: Implications for the Robustness of Photometric Selection* - 2023, ApJ, 952, 99
- Chworowsky, K., Finkelstein, S. L., Spilker, J. S., et al., (**Larson, R. L. 9 of 14**) , *ALMA 1.1 mm Observations of a Conservative Sample of High-redshift Massive Quiescent Galaxies in SHELA* - 2023, ApJ, 951, 49
- Leung, G. C. K., Bagley, M. B., Finkelstein, S. F., et al., (**Larson, R. L. 14 of 79**) , *NGDEEP Epoch 1: The Faint End of the Luminosity Function at $z 9-12$ from Ultradeep JWST Imaging* - 2023, ApJL, 954, 46
- Arrabal Haro, P., Dickinson, M., Finkelstein, S. F., et al., (**Larson, R. L. 36 of 50**) , *Spectroscopic Confirmation of CEERS NIRC*am*-selected Galaxies at $z \gtrsim 8-10$* - 2023, ApJL, 951, 22
- Papovich, C., Cole, J. W., Yang, G., et al., (**Larson, R. L. 36 of 49**) , *CEERS Key Paper. V. Galaxies at $4 < z < 9$ Are Bluer than They Appear-Characterizing Galaxy Stellar Populations from Rest-frame $1\mu\text{m}$ Imaging* - 2022, ApJL, 949, 18
- Yang, G., Kaputi, K. I., Papovich, C., et al., (**Larson, R. L. 30 of 38**) , *CEERS Key Paper. VI. JWST/MIRI Uncovers a Large Population of Obscured AGN at High Redshifts* - 2022, ApJL, 950, 5
- Casey, C. M., Kartaltepe, J. S., Drakos, N. E., et al., (**Larson, R. L. 36 of 86**) , *COSMOS-Web: An Overview of the JWST Cosmic Origins Survey* - 2023, ApJ, 954, 31
- Bagley, M., Pirzkal, N., Finkelstein, S. L., et al., (**Larson, R. L. 36 of 48**) , *The Next Generation Deep Extragalactic Exploratory Public (NGDEEP) Survey* - 2023, ApJL, 965, 18
- Pacifici, C., Iyer, K. G., Mobasher, B., et al., (**Larson, R. L. 37 of 55**) , *The Art of Measuring Physical Parameters in*

Galaxies: A Critical Assessment of Spectral Energy Distribution Fitting Techniques - 2023, ApJ, 944, 141

- Zavala, J. A., Buat, V., Casey, C. M., et al., (**Larson, R. L. 90 of 125**), *Dusty Starbursts Masquerading as Ultra-high Redshift Galaxies in JWST CEERS Observations* - 2023, ApJL, 943, 9
- Yu-Yang Hsiao, T., Coe, D., Abdurrouf, et al., (**Larson, R. L. 48 of 66**), *JWST reveals a possible $z \sim 11$ galaxy merger in triply-lensed MACS0647 – JD* - 2022, ApJ, 949, 34
- Windhorst, R. A., Cohen, S. H., Jansen, R. A., et al., (**Larson, R. L. 58 of 83**), *Webb’s PEARLS: Prime Extragalactic Areas for Reionization and Lensing Science: Project Overview and First Results* - 2023, AJ, 165, 13
- Welch, B., Coe, D., Zackrisson, E., et al., (**Larson, R. L. 41 of 63**), *JWST Imaging of Earendel, the Extremely Magnified Star at Redshift $z=6.2$* - 2022, ApJ, 940, 1
- Tachella, S., Finkelstein, S. L., Bagley, M., et al., (**Larson, R. L. 15 of 21**) *On the Stellar Populations of Galaxies at $z = 9 - 11$: The Growth of Metals and Stellar Mass at Early Times* - 2022, ApJ, 927, 170
- Zitrin, A., Acebron, A., Coe, D., et al., (**Larson, R. L. 15 of 22**) *A Strong-lensing Model for the WDMF JWST/GTO Very Rich Cluster A1489* - 2020, ApJ, 903, 137
- Rojas-Ruiz, S., Finkelstein, S. L., Bagley, M., et al., (**Larson, R. L. 6 of 8**) *Probing the Bright End of the Rest-Frame Ultraviolet Luminosity Function at $z = 8-10$ with Hubble Pure-Parallel Imaging* - 2020, ApJ, 891, 146
- Pharo, J., Malhotra, S., Rhoads, J., et al., (**Larson, R. L. 18 of 21**), *A Catalog of Emission-line Galaxies from the Faint Infrared Grism Survey: Studying Environmental Influence on Star Formation* - 2020, ApJ, 888, 79
- Pirzkal, N., Rothberg, B., Ryan, R. E., et al., (**Larson, R. L. 16 of 24**), *A Two-dimensional Spectroscopic Study of Emission-line Galaxies in the Faint Infrared Grism Survey (FIGS). I. Detection Method and Catalog* - 2018, ApJ, 868, 61
- Jung, I., Finkelstein, S. L., Livermore, R. C., et al., (**Larson, R. L. 8 of 8**), *Texas Spectroscopic Search for $Ly\alpha$ Emission at the End of Reionization I. Constraining the $Ly\alpha$ Equivalent-width Distribution at $6.0 < z < 7.0$* - 2018, ApJ, 864, 103
- Yang, Y. L., Green, J. D., Evans, N. J., II, et al. (**Larson, R. L. 15 of 16**), *CO in Protostars (COPS): Herschel-SPIRE Spectroscopy of Embedded Protostars* - 2018, ApJ, 860, 174
- Green, J. D., Yang, Y.-L., Evans, N. J., II, et al., (**Larson, R. L. 8 of 9**), *The CDF Archive: Herschel PACS and SPIRE Spectroscopic Data Pipeline and Products for Protostars and Young Stellar Objects* - 2016, AJ, 151, 75

WHITE PAPERS

- Windhorst, R. A., Alpaslan, M., Andrews, S., et al. (**Larson, R. L. 26 of 47**), *On the observability of individual Population III stars and their stellar-mass black hole accretion disks through cluster caustic transits* - 2019, arXiv:1903.06527
- Koekemoer, A. M., Foley, R. J., Spergel, D. N., et al. (**Larson, R. L. 36 of 72**), *An Ultra Deep Field survey with WFIRST* - 2019, arXiv:1903.06154
- Finkelstein, S. L., Bradac, M., Casey, C., et al. (**Larson, R. L. 12 of 18**), *Unveiling the Phase Transition of the Universe During the Reionization Epoch with Lyman-alpha* - 2019, arXiv:1903.04518

PROCEEDINGS

- **Larson, R. L.**, Jogee, S., Watson, N., et al., *Probing Early Galaxy Growth and Dusty Star-Forming Systems Across Diverse Environments in the 28 deg^2 Herschel/Stripe82/HETDEX Field* - 2015, Frank N. Bash Symposium (BASH2015)

CATALOGS

- Leung, G. C. K., Finkelstein, S. L., Weaver, J. R., et al., (**Larson, R. L. 5 of 14**), *VizieR Online Data Catalog: SHELA survey. IV. Multiwavelength phot. cat. (Leung+, 2023)* - 2024, VizieR Online Data Catalog
- Pharo, J., Malhotra, S., Rhoads, J. E., et al., (**Larson, R. L. 18 of 21**), *VizieR Online Data Catalog: Emission-line galaxies from the FIGS survey (Pharo+, 2020)* - 2021, VizieR Online Data Catalog
- Yang, Y.-L., Green, J. D., Evans, N. J., II, et al., (**Larson, R. L. 15 of 16**), *VizieR Online Data Catalog: CO in Protostars (COPS): Herschel spectroscopy* - 2019, VizieR Online Data Catalog
- Green, J. D., Yang, Y.-L., Evans, N. J., II, et al., (**Larson, R. L. 8 of 9**), *VizieR Online Data Catalog: Herschel-PACS and -SPIRE spectroscopy of 70 objects* - 2016, VizieR Online Data Catalog, 515