

# CLAIRE LAMMAN

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## INTERESTS

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I bridge the fields of cosmology and galactic astrophysics by finding novel correlations between objects in the non-linear regime of galaxy dynamics, such as galaxies and galaxy groups, and the large-scale structure of the Universe. I develop methods to quantify these correlations and explore the additional cosmological information they reveal in large spectroscopic surveys like [DESI](#). I am also passionate about outreach and strive to make research accessible to broad audiences through creative mediums.

## EDUCATION

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<b>Harvard University</b>	<i>2019 - 2025</i>
Advisor: Daniel Eisenstein	
<b>Ph.D.</b> , Astronomy and Astrophysics	May 2025
<b>M.S.</b> Astrophysics	May 2022
<b>University of Colorado Boulder</b>	<i>2015 - 2019</i>
Astrophysical and Planetary Sciences, <i>Summa Cum Laude</i>	
<b>B.A.</b> Astronomy	May 2019
<b>B.A.</b> Physics	May 2019

## CURRENT POSITIONS

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<b>2025 NSF Astronomy and Astrophysics Postdoctoral Fellow</b>	<i>2025 - present</i>
<b>CCAPP Fellow</b>	<i>2025 - present</i>

<i>Center for Cosmology and Astroparticle Physics, Ohio State University</i>
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## SELECTED AWARDS

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<b>Harvard Fireman Fellowship</b>	<i>2025</i>
<i>For best observational astronomy Ph.D. thesis</i>	
<b>National Academies Eric and Wendy Schmidt Award for Excellence in Science Communications</b>	<i>2024</i>
<i>Graduate student winner, \$20k prize.</i>	
Citation: "Claire Lamman makes complex topics accessible with creativity and innovation. Her use of unique and diverse mediums, including cartoon annotations of scientific papers, to communicate cosmology demonstrates her ingenuity and potential to reach wider audiences and highlights her ability to communicate science through diverse and engaging mediums."	
<b>Harvard Horizons Scholar</b>	<i>2024</i>
<i>Selected by faculty as one of eight students to represent extraordinary PhD research at Harvard.</i>	
<b>NSF Graduate Research Fellow</b>	<i>2019 - 2023</i>

**Certificate of Distinction in Teaching** 2020, 2021, 2022  
Awarded by Harvard's Bok Center to teaching fellows with an overall student evaluation of 4.5 / 5.0 or higher.

**University of Colorado Outstanding Undergraduate** 2019  
Top honor for CU Boulder's College of Arts and Sciences Spring 2019 graduating class.

**Chambliss Astronomy Achievement Award (231st AAS Meeting)** 2018

**Jacob Van Ek Scholar** 2018  
“One of the highest honors in CU’s College of Arts & Sciences” for superior academic achievement.

**Boettcher Scholar** 2015 - 2019  
Merit-based, full-ride scholarship to any Colorado university

## PREVIOUS POSITIONS

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**Independent Research** University of Colorado, Boulder 2017 - 2019  
*M-dwarf multiplicity survey, awarded \$3k grant by Boettcher Foundation to support research.*  
Advisor: Zachory Berta-Thompson

**REU Student** University of Hawai'i 2017  
*Analyzing Robo-AO observations. Advisor: Christoph Baranec*

**Undergraduate Research Assistant** University of Colorado, Boulder 2017  
*CMB Observations with South Pole Telescope. Advisor: Nils Halverson*

## OUTREACH

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I create many outreach materials, including [artwork](#), [comics](#), and [cakes](#) that have reached millions on social media. Below are a selection of my other projects and outreach roles.

**Accessible Paper Annotations** 2022 - present  
I ‘translate’ scientific papers with a cartoon overlay. This was featured in [Physics Today](#) and inspired [many others](#). All can be found on my website.

**DESI Press & Visualizations** 2024 - 2025  
*Create graphics for and help construct DESI’s press releases, including our [Y1](#) and [Y3](#) results.*  
Featured in over 1000 unique articles, including the [New York Times](#), [NPR](#), and [The Guardian](#).

**Planetarium Film: “5000 Eyes: Exploring the Universe with DESI”** Premiered 2023  
*In Collaboration with DESI and Fiske Planetarium*  
· Conceived, secured \$73k, wrote, and directed  
· Film translated into 8 languages and downloaded 421 times in 58 countries.

**DESI’s Education and Outreach Committee** 2021 - present  
**Co-chair 2023-2025.** *Making DESI’s science and data accessible to broad audiences through [DESI’s website](#), events, press, and coordinating efforts within the 700-member collaboration.*

**ComSciCon Leadership Team** 2019 - 2023  
· Organizer of Flagship Workshops ‘20, ‘21, ‘22  
· Co-chair of Flagship Local Organizing Committee ‘21, ‘22  
· Chair of Flagship Application Committee, ‘21, ‘22

<b>Fiske Planetarium (CU Boulder)</b>	2015 - 2019
<i>Presented over 300 astronomy shows to the public and school groups, worked with lecturers to develop shows, trained student employees, operated theater, led outreach trips, laserist.</i>	
<b>NASA Film Grant</b>	2017 - 2019
<i>Helped create a series of short planetarium films with Fiske Planetarium.</i>	
<i>Conceived and wrote scripts for <a href="#">Parker Solar Probe</a> and <a href="#">Transiting Exoplanet Survey Satellite</a></i>	
<b>CU STARS</b>	2015 - 2019
<i>University group for astronomy and STEM inclusivity, outreach on campus and to underprivileged Colorado high schools</i>	
<b>Imiloa Astronomy Center</b>	2017
<i>Volunteer at planetarium and Hawai'ian cultural center</i>	

## COLLABORATION MEMBERSHIPS

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Dark Energy Spectroscopic Instrument ( <a href="#">DESI</a> )	July 2019 - Present
<b>Builder</b> <i>Eligible for continuing participation at non-DESI institutions</i>	February 2025 - Present
Service includes: testing fiber assignment, 30 nights of observing from commissioning through main survey, internal reviewer, leading Education and Public Outreach committee, creating visualizations for papers and press releases.	

## SERVICE

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<b>Reviewer</b>	2024, 2025, 2026
<i>The Astrophysical Journal, Monthly Notices of the Royal Astronomical Society, Open Journal of Astrophysics, The Journal of Open Source Software</i>	
<b>DESI Intrinsic Alignment group organizer</b>	2023 - 2024
<b>Lead organizer of <a href="#">LILAC Workshop</a></b>	2024
<i>Including instigating and raising \$6.9k to fund the workshop.</i>	
<b>Faculty Hiring Student Representative (Harvard University)</b>	2023
<i>Elected to gather and report student sentiment to faculty hiring committee</i>	
<b>White Paper Contributions</b>	2023
<ul style="list-style-type: none"> <li>· CfA white paper, co-lead author “ComSciCon”</li> <li>· CfA white paper, coauthor “A Harvard Planetarium: Opportunity for Growth and Outreach”</li> <li>· Harvard Science Center white paper, coauthor “A Harvard Planetarium and Science Center Expansion”</li> </ul>	

## ADVISING & MENTORING

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<b>Primary advisor: Annika Kumwembe</b>	May 2024 - December 2025
<b>REU</b> Student (Center for Astrophysics) & Undergraduate Thesis (St Mary's College of Maryland)	
<i>Supplementing DESI multiplet measurements with imaging data.</i>	
<b>Co-advisor: Miguel Perdomo</b>	May 2024 - present
<i>Undergraduate Thesis (Universidad de los Andes) Primary advisor: Jaime Forero-Romero</i>	
<i>Exploring multiplet alignment in DESI's bright galaxy survey.</i>	

**Co-advisor (single project): Ana Sofia Uzsoy** February 2025 - present  
Graduate student project (Harvard University) *co-advisor: Melanie Weber*  
*Applying geometric machine learning to identify cosmic structures, NeurIPS Conference Paper*

**Mentor for SAO-UMass Latino Initiative Program** 2023

**Mentor for CfA Peer-Mentoring Program** 2021, 2022, 2023

## TEACHING

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**Astronomy Teaching Fellow** Fall ‘20, ‘21, and ‘22  
*Harvard University, AY 17: Galaxies and Cosmology taught by Daniel Eisenstein*

**Observing Class Assistant** Spring ‘23  
*Harvard University, department observing class consisting of lectures and tours of Arizona facilities*

**Learning Assistant** Fall ‘16  
*CU Boulder, Stars and Galaxies for Non-Majors taught by Doug Duncan*

## AWARDED FUNDING

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**Pioneering methods to connect galaxies with LSS in upcoming surveys** \$330k  
*NSF AAPF*

**Excellence in Science Communication** \$20k  
*National Academies Eric and Wendy Schmidt Awards*

**Echo-IA Workshop**, *Center for Astrophysics workshop fund* \$6.9k

**Planetarium Production**, *DESI Collaboration* \$75k

**Gaia M Dwarf Multiplicity Survey**, *NSF GRFP* \$102k

**Robo-AO Multiplicity Survey**, *Boettcher Foundation Independent Research Grants* \$3k

**Boettcher Scholarship**, *Boettcher Foundation* \$100k

## INVITED TALKS

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*I have been invited to give 24 colloquium and seminar talks and given over 50 research talks.*

<b>DESI Special Session opening talk AAS 247</b>	Jan. 2026
<i>Astro Seminar Kavli Institute for the Physics and Mathematics of the Universe</i>	Sept. 2025
<i>Astronomy Seminar Perimeter Institute</i>	Jan. 2025
<b>DESI Plenary Talk DESI Collaboration Meeting</b>	Dec. 2024
<i>Astro-Cosmology Seminar Donostia International Physics Center</i>	Nov. 2024
<i>Lunch Seminar Carnegie Observatories</i>	Nov. 2024
<i>Research Progress Meetings Lawrence Berkeley National Laboratory</i>	Nov. 2024
<i>KIPAC Tea Stanford University</i>	Nov. 2024
<i>Astro Seminar New York University</i>	Oct. 2024
<i>Cosmology Meeting Flatiron Institute</i>	Oct. 2024
<i>Cosmology Seminar Princeton University</i>	Sept. 2024
<i>Astronomy Colloquium University of Wyoming</i>	April 2024

Midwest Cosmology Seminar <i>virtual</i>	March 2024
Astronomy Seminar <i>University of Massachusetts Lowell</i>	March 2024
<b>Cosmo Talks</b> <i>virtual</i>	Feb. 2024
Lawrence Berkeley National Laboratory, DESI Lunch Seminar	March 2023
Astronomy Lunch Seminar, <i>University of Colorado Boulder</i>	March 2023
Astromerique Speaker Series, <i>University of Montreal CIELA Institute</i>	March 2023
Astronomy Seminar <i>Northeastern University</i>	Nov. 2022
LSST-DESC Intrinsic Alignment Meeting <i>virtual</i>	Oct. 2022
CCAPP Seminar, <i>Ohio State University</i>	Oct. 2022
Astro Seminar <i>Tufts University</i>	Sept. 2022
Ralf Bender's Group Seminar, <i>Max Planck Institute, virtual</i>	Sept. 2022
Seminar, <i>Kavli Institute for the Physics and Mathematics of the Universe</i>	Aug. 2022

## CONTRIBUTED & LOCAL TALKS

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Alternative Clustering in Cosmology <i>AAPF MPS-Ascend Fellows Symposium</i>	Jan. 2026
AAS Dissertation Talk <i>AAS 247</i>	Jan. 2026
COSMO 25 <i>Carnegie Mellon University</i>	Oct. 2025
Beyond-two-point Statistics Meet Survey Systematics <i>Kavli-IPMU</i>	Oct. 2025
Students and Faculty Forum <i>Harvard Center for Astrophysics</i>	Nov. 2024
<b>ITC Lunch Talk</b> <i>Harvard Center for Astrophysics</i>	Oct. 2024
Galaxy Groups in the era of eROSITA and Euclid <i>Sesto Italy</i>	July 2024
<b>ITC Lunch Talk</b> <i>Harvard Center for Astrophysics</i>	Oct. 2023
Lars Hernquist Group Meeting <i>Harvard Center for Astrophysics</i>	July 2023
Students and Faculty Forum <i>Harvard Center for Astrophysics</i>	March 2023
Hol-IA: A holistic approach to galaxy intrinsic alignments <i>Lorentz Center</i>	March 2023
Cosmology on the Beach <i>Cancún Mexico</i>	Dec. 2022
From galaxies to cosmology with deep spectroscopic surveys <i>Marseille France</i>	July 2022
Cosmology Journal Club, <i>Harvard Physics Department</i>	April 2022
Department Research Forum, <i>Harvard Center for Astrophysics</i>	April 2022
232 American Astronomical Society Meeting <i>Denver CO</i>	June 2018

## OUTREACH & PUBLIC TALKS

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\*invited

*Careers in Science and Academia <i>Cañon City High School</i>	Dec. 2025
*Annotated Papers: Broadening the audience of scientific manuscripts <i>AAPF MPS-Ascend Fellows Symposium</i>	Jan. 2026
*Astro Science Communication Workshop <i>University of California, Santa Cruz</i>	Nov. 2025
*The science and making of 5000 Eyes <i>OSU Friends of Astronomy, Planetarium</i>	Nov. 2025

★Astro on Tap: Tensions in the Dark Sector	<i>Aeronaut Brewing, Cambridge</i>	May 2025
<b>Harvard Horizons: Untangling the Cosmic Web</b>		<b>April 2024</b>
★CYW Fair STEM Interview	<i>online</i>	May 2024
★Women in Cosmology Guest Lecture	<i>Tufts ExCollege</i>	April 2023
“5000 Eyes” Premiere Public Talk	<i>Fiske Planetarium</i>	March 2023
“5000 Eyes” Premiere, Panelist	<i>Chabot Planetarium</i>	March 2023
★North Shore Astronomy Club		Nov. 2021, Nov. 2023
Skype a Scientist		Oct. 2020, Feb. 2021, Jan. 2021
YouthAstroNet Astro Chat		April 2020
CU Boulder Astrophysics and Planetary Sciences Commencement Speaker		May 2019
CU Boulder College of Arts and Sciences - Honors Graduate Address		May 2019

## CLAIRE LAMMAN SCIENTIFIC PUBLICATIONS

 ORCID: 0000-0002-6731-9329

 NASA ADS: [Complete Library](#) | [Highlighted selection](#)

I have six first-author publications and directly supervised one student-led paper.

My total publication record contains 68 articles with an  $h$ -index of 15 and 3030 total citations ([Metrics from NASA ADS](#)).

### First Author

6. **C. Lamman**, J. Blazek, D. Eisenstein, *Optimal intrinsic alignment estimators in the presence of redshift-space distortions*, [Open Journal of Astrophysics December 2025](#) | [accessible summary](#)
5. **C. Lamman**, D. Eisenstein et al., *Detection of the large-scale tidal field with galaxy multiplet alignment in the DESI Y1 spectroscopic survey*, [MNRAS October 2024](#) | [accessible summary](#)
4. **C. Lamman**, D. Eisenstein et al., *Redshift-dependent RSD bias from Intrinsic Alignment with DESI Year 1 Spectra*, [MNRAS March 2024](#), Volume 528, Issue 4, Pages 6559–6567 | [accessible summary](#)
3. **C. Lamman**, E. Tsaprazi, J. Shi, N. Sarcevic, S. Pyne, E. Legnani, T. Ferrira, *The IA Guide: A Breakdown of Intrinsic Alignment Formalisms*, [Open Journal of Astrophysics February 2024](#)
2. **C. Lamman**, D. Eisenstein et al., *Intrinsic Alignment as an RSD Contaminant in the DESI Survey*, [MNRAS April 2023](#), Volume 522, Issue 1, Pages 117–129 | [accessible summary](#)
1. **C. Lamman**, C. Baranec, Z. K. Berta-Thompson, N. M. Law, J. Schonhut-Stasik, C. Ziegler, M. Salama, R. Jensen-Clem, D. A. Duev, R. Riddle, S. R. Kulkarni, J. G. Winters, J. M. Irwin, *Robo-AO M Dwarf Multiplicity Survey: Catalog*, [The Astronomical Journal March 2020](#), Volume 159 Number 4

### Second Author

7. A. Kumwembe, **C. Lamman**, et al. *Enhancing Multiplet Alignment Measurements with Imaging*, [Research Notes of AAS November 2025](#)  
My contributions are creating and guiding the project, serving as the student's main advisor.
8. A. Uzoy, **C. Lamman**, M. Weber *Manifold Learning for Cosmic Structures* [Accepted to NeurIPS Machine Learning and the Physical Sciences Workshop December 2025](#)  
[Conference Paper] My main contributions are advising data interpretation and cosmological/astrophysical applications.

### DESI Publications

My main contributions to DESI survey include: testing fiber assignment algorithm, 30 nights of observing from commissioning through the main survey, serving as an internal reviewer and creating visualizations for papers and press releases.

J. Hou et al. *Study of the connected four-point correlation function of galaxies from the DESI Data Release 1 luminous red galaxy sample*, [Physical Review D, December 2025](#)

H. Wang et al. *Galaxy-Multiplet Clustering from DESI DR2*, [MNRAS December 2025](#)

M. Maus et al. *A joint analysis of 3D clustering and galaxy × CMB-lensing cross-correlations with DESI DR1 galaxies*, [JCAP November 2025](#)

J. Lange et al. *A Unified Photometric Redshift Calibration for Weak Lensing Surveys using the Dark Energy Spectroscopic Instrument*, [APJ October 2025](#)

C. Garcia-Quintero et al. *Cosmological implications of DESI DR2 BAO measurements in light of the latest ACT DR6 CMB data*, [Physical Review D October 2025](#)

DESI Collaboration et al., *DESI DR2 Results II: Measurements of Baryon Acoustic Oscillations and Cosmological Constraints*, [Physical Review D October 2025](#)

DESI Collaboration et al., *DESI DR2 Results I: Baryon acoustic oscillations from the Lyman alpha forest*, [Physical Review D October 2025](#)

W. Elbers et al., *Constraints on neutrino physics from DESI DR2 BAO and DR1 full shape*, [Physical Review D October 2025](#)

U. Andrade et al., *Validation of the DESI DR2 measurements of baryon acoustic oscillations from galaxies and quasars*, [Physical Review D October 2025](#)

K. Lodha et al., *Extended dark energy analysis using DESI DR2 BAO measurements*, [Physical Review D October 2025](#)

A. Brodzeller et al., *Construction of the damped Ly $\alpha$  absorber catalog for DESI DR2 Ly $\alpha$  BAO*, [Physical Review D October 2025](#)

S. Rauhut et al., *Testing gravitational physics by combining DESI DR1 and weak lensing datasets using the E\_G estimator*, [OJA October 2025](#)

R. de Belsunce et al., *Cosmology from Planck CMB lensing and DESI DR1 quasar tomography*, [JCAP October 2025](#)

T. Hagen et al., *DESI Emission-line Galaxies: Clustering Dependence on Stellar Mass and [O II] Luminosity*, [AJ October 2025](#)

S. Ahlen et al., *Positive Neutrino Masses with DESI DR2 via Matter Conversion to Dark Energy*, [PRL August 2025](#)

S. Novell-Masot et al., *Full-Shape analysis of the power spectrum and bispectrum of DESI DR1 LRG and QSO samples*, [JCAP June 2025](#)

DESI Collaboration et al., *Data Release 1 of the Dark Energy Spectroscopic Instrument*, [Submitted to AJ March 2025](#)

DESI Collaboration et al., *The Dark Energy Spectroscopic Instrument: Early Data Release*, [The Astronomical Journal July 2024](#), Volume 168 Number 58

DESI Collaboration et al., *Validation of the Scientific Program for the Dark Energy Spectroscopic Instrument*, [The Astronomical Journal January 2024](#), Volume 168 Number 58

DESI Collaboration et al., *Overview of the Instrumentation for the Dark Energy Spectroscopic Instrument*, [The Astronomical Journal October 2022](#), Volume 164 Number 207

## DESI (Submitted)

J. Hou et al. *Parity-odd Four-Point Correlation Function from DESI Data Release 1 Luminous Red Galaxy Sample*, [December 2025 arXiv:2512.20132](#)

H. Ryuichiro et al., *Measurements of quasar proximity zones with the Lyman- $\alpha$  forest of DESI Y1 quasars*, [submitted to ApJ December 2025](#)

- H. Ryuichiro et al., *Constraining primordial non-Gaussianity from DESI DR1 quasars and Planck PR4 CMB Lensing*, December 2025 [arXiv:2512.17865](#)
- H. Ryuichiro et al., *The Power of DESI for Photometric Redshift Calibration: A Case Study with KiDS-1000*, December 2025 [arXiv:2512.15964](#)
- R. Ruggeri et al. *Clustering redshift distribution calibration of weak lensing surveys using the DESI-DR1 spectroscopic dataset*, [arXiv:2512.15963](#) December 2025
- J. Lange et al. *Cosmological Constraints from Full-Scale Clustering and Galaxy-Galaxy Lensing with DESI DR1*, [arXiv:2512.15962](#) December 2025
- Semeanaite A. et al. *Joint cosmological fits to DESI-DR1 full-shape clustering and weak gravitational lensing in configuration space*, [arXiv:2512.15961](#) December 2025
- Porredon, A. et al. *DESI-DR1 3×2-pt analysis: consistent cosmology across weak lensing surveys*, [arXiv:2512.15960](#) December 2025
- Qiu, T. et al. *The Binary Fraction of Stars in the Dwarf Galaxy Ursa Minor via Dark Energy Spectroscopic Instrument*, [arXiv:2512.04477](#) December 2025
- J. Karp et al. *The DESI Single Fiber Lens Search. I. Four Thousand Spectroscopically Selected Galaxy-Galaxy Gravitational Lens Candidates*, *Submitted to ApJ* December 2025
- Y. Chang et al. *Tracing the Cosmic Evolution of the Cool Circumgalactic Medium of Luminous Red Galaxies with DESI Year 1 Data*, [arXiv:2512.03845](#) December 2025
- A. Carr et al. *The DESI DR1 Peculiar Velocity Survey: global zero-point and  $H_0$  constraints*, [arXiv:2512.03232](#) December 2025
- F. Qin et al. *The DESI DR1 Peculiar Velocity Survey: Growth Rate Measurements from the Galaxy Power Spectrum*, December 2025
- R. Turner et al. *The DESI DR1 Peculiar Velocity Survey: growth rate measurements from galaxy and momentum correlation functions*, [arXiv:2512.03230](#) December 2025
- Y. Lai et al. *The DESI DR1 Peculiar Velocity Survey: growth rate measurements from the maximum likelihood fields method*, [arXiv:2512.03229](#) December 2025
- J. Bautista et al. *The DESI DR1 Peculiar Velocity Survey: Mock Catalog*", [arXiv:2512.03228](#) December 2025
- K. Douglass et al. *The DESI DR1 Peculiar Velocity Survey: The Tully-Fisher Distance Catalog*, *Submitted to ApJ* December 2025
- C. Ross et al. *The DESI DR1 Peculiar Velocity Survey: Fundamental Plane Catalogue*, [arXiv:2512.03226](#) December 2025
- S. Li et al. *The Milky Way stellar halo is twisted and doubly broken: insights from DESI DR2 Milky Way Survey observation*, *Submitted to ApJ* December 2025
- A. Crespi et al. *Baryon fraction from the BAO amplitude: a consistent approach to parameterizing perturbation growth*, [arXiv:2511.23459](#) November 2025
- A. Krolewski et al. *A measurement of  $H_0$  from DESI DR1 using energy densities*, [arXiv:2511.23432](#) November 2025
- Y. Gong et al. *Detection of the Pairwise Kinematic Sunyaev-Zel'dovich Effect and Pairwise Velocity with DESI DR1 Galaxies and ACT DR6 and Planck CMB Data* [arXiv:2511.23417](#) November 2025

J. Choppin de Janvry et al. *Full calibration of the tomographic redshift distribution from the HSC PDR3 Shape Catalog with DESI*, [arXiv:2511.18133 November 2025](#)

A. S. Uzsoy et al. *Effect of local environment on Ly  $\alpha$  line profile in DESI/ODIN LAEs*, [arXiv:2511.17498 November 2025](#)

V. Ramakrishnan et al. *ODIN: Characterizing the Three-dimensional Structure of Two Protocluster Complexes at  $z=3.1$* , [Submitted to ApJ November 2025](#)

E. McArthur et al. *Quasars acting as Strong Lenses Found in DESI DR1*, [arXiv:2511.02009 November 2025](#)

S. Moore et al. *DESI DR2 Galaxy Luminosity Functions*, [arXiv:2511.01803 November 2025](#)

X. Hall et al. *AT2025ulz and S250818k: Leveraging DESI spectroscopy in the hunt for a kilonova associated with a sub-solar mass gravitational wave candidate*, [arXiv:2510.23723 October 2025](#)

Z. Shao et al. *Direct Measurement of Galaxy Assembly Bias using DESI DR1 Data*, [arXiv:2510.20896 October 2025](#)

E. Zaborowski et al.  *$H_0$  Without the Sound Horizon (or Supernovae): A 2% Measurement in DESI DR1*, [arXiv:arXiv:2510.19149 October 2025](#)

A. Cuceu et al., *DESI DR1 Ly $\alpha$  forest: 3D full-shape analysis and cosmological constraints*, [arXiv:2509.15308 September 2025](#)

R. Gsponer et al., *Fiducial-Cosmology-dependent systematics for the DESI 2024 Full-Shape Analysis*, [arXiv:2509.08057 September 2025](#)

J. Ratajczak et al., *The Compilation and Validation of the Spectroscopic Redshift Catalogs for the DESI-COSMOS and DESI-XMM-LSS Fields*, [arXiv:2508.09286 August 2025](#)

J. Siegel et al., *Intrinsic alignment demographics for next-generation lensing: Revealing galaxy property trends with DESI Y1 direct measurements*, [Submitted MNRAS July 2025](#)

E. Fernández-García et al., *DESI DR2 reference mocks: clustering results from Uchuu-BGS and LRG*, [arXiv:2507.01593 July 2025](#)

S. Heydenreich et al., *Lensing Without Borders: Measurements of galaxy-galaxy lensing and projected galaxy clustering in DESI DR1*, [arXiv:2506.21677 June 2025](#)

D. Arjun et al., *The Backup Program of the Dark Energy Spectroscopic Instrument's Milky Way Survey*, [Submitted to AJ May 2025](#)

## Other Publications

K. Barkaoui et al., *Three short-period Earth-sized planets around M dwarfs discovered by TESS: TOI-5720 b, TOI-6008 b, and TOI-6086 b*, [A&A July 2024](#), Volume 687 A264

My contributions: produced plots of Robo-AO contrast curves and observation descriptions

G. Tianjun et al., *TESS discovery of a sub-Neptune orbiting a mid-M dwarf TOI-2136*, [MNRAS May 2022](#), Volume 514, Issue 3, Pages 4120–4139

My contributions: provided Robo-AO contrast curve, observation descriptions, and interpretations

J. Schonhut-Stasik, D. Huber, C. Baranec, **C. Lamman**, M. Salama, R. Jensen-Clem, D. A. Duev, R. Riddle, S. R. Kulkarni, N. M. Law, *Robo-AO Kepler Asteroseismic Survey. II. Do Stellar Companions Inhibit Stellar Oscillations?* [ApJ January 2020](#), Volume 888 Number 34

My contributions: visually inspected observations with my pipeline and identified additional stellar companions