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## Research Interests

Galaxy formation and evolution, high redshift galaxies, galaxy structures, gas and stellar kinematics, dynamical modeling, galaxy quenching

## Education

2017 **Ph.D. Astrophysics**, *University of California, Berkeley*  
*Dissertation:* Galaxies in the Young Universe: Structures, Masses, and Composition of Star-Forming Galaxies at  $z \sim 1.5 - 3$   
*Advisor:* Mariska Kriek  
2013 **M.A. Astrophysics**, *University of California, Berkeley*  
2011 **B.S. Physics**, *with honors, California Institute of Technology*

## Research Positions

2022-present Samuel P. Langley PITT PACC Fellow, University of Pittsburgh, PA, USA  
2017-2022 Postdoctoral Scholar, Max-Planck-Institut für extraterrestrische Physik, Garching, Germany  
2011-2017 Graduate Student, UC Berkeley, CA, USA  
2008-2010 Summer Undergraduate Research Fellow; undergrad. researcher, Caltech, Pasadena, CA, USA

## Fellowships & Awards

2022 Samuel P. Langley PITT PACC Fellowship, University of Pittsburgh  
2014 Outstanding Graduate Student Instructor Award, UC Berkeley  
2012 NSF Graduate Research Fellowship, UC Berkeley  
2009 Margie Lauritsen Leighton Prize, Caltech

## Large Surveys and Collaborations

UNCOVER/MegaScience, *JWST Cycle 1 Treasury / Cycle2 programs*; **Survey Manager** (PIs: UNCOVER: I. Labbé, R. Bezanson / MegaScience: K.A. Suess)  
NOEMA<sup>3D</sup>, *MPG-IRAM Observatory Program IRAM/NOEMA survey* (PIs: R. Genzel, R. Neri, L.J. Tacconi)  
KMOS<sup>3D</sup>, *VLT/KMOS GTO survey* (PIs: N.M. Förster Schreiber, D. Wilman)  
MOSDEF, *MOSFIRE Deep Evolution Field Survey, Keck Large Multi-Year Project* (PIs: A.E. Shapley, A.L. Coil, M. Kriek, B. Mobasher, N.A. Reddy, B. Siana)  
3D-HST, *HST Treasury grism survey* (PI: P. van Dokkum)

## Approved Proposals as PI

ALMA, Cycle 11, 2024.1.01599.S, "Revealing the connection between massive cores and quenching with ALMA", 7.2 hrs  
Pitt Center for Research Computing, 2024, "Characterizing Morphologies of Distant ( $z > 1$ ) Galaxies with JWST imaging", 228900 hrs

## Approved Proposals as Co-I

HST, WFC3/UVIS, Cycle 32, #17730, "Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field", 72 orbits (PI: K. Whitaker)  
ALMA, Cycle 11, 2024.1.01490.S, "Resolving the SUSPENSE: constraining the quenching mechanisms of high-redshift massive quiescent galaxies", 42.9 hrs (PI: P. Mancera Piña)  
ALMA, Cycle 11, 2024.1.01443.S, "The molecular gas properties of giant star-forming clumps in a  $z=2.2$  MS galaxy", 25.3 hrs (PI: R. Herrera-Camus)  
ALMA, Cycle 11, 2024.1.01197.S, "First Dynamical and FIR Characterizations of an X-ray luminous AGN host galaxy at  $z > 10$ ", 9.7 hrs (PI: S. Fujimoto)  
ALMA, Cycle 11, 2024.1.00826.S, "Of Dust and Dots: ALMA's View of the Brightest of JWST's Little Red Dots", 19.0 hrs (PI: J. Greene)

- ALMA, Cycle 11, 2024.1.00551.S, “Probing the Host Galaxies of 45 Broad-line Little Red Dots at  $z_{\text{spec}}=4.13\text{--}8.50$  with ALMA”, 44.8 hrs (*PI: S. Fujimoto*)
- JWST, NIRSpec, Cycle 3, #5629, “Extremely deep spectroscopy of quiescent galaxies at  $z\sim 0.7$ : A direct measurement of the stellar initial mass function beyond the low-redshift universe”, 40 hrs (*PIs: M. Kriek, A. Beverage, C. Cheng*), **funded co-I / Pitt: \$39k**
- JWST, NIRSpec, Cycle 3, #6405, “Clumpy Relics: The First Spectroscopic Confirmation of Globular Clusters at  $z\sim 3$ ”, 20 hrs (*PIs: S. Cutler, K. Whitaker*)
- JWST, NIRSpec, Cycle 3, #5974, “ORCHIDS: ORigin of the [C II] Halos In Distant Systems”, 43 hrs (*PIs: M. Aravena, J. González López*)
- IRAM/NOEMA, W23, W23DA, “Resolved [CII] Kinematics and ISM Properties of  $z > 6$  Galaxies – II: Pilot High-Resolution Mapping”, 35 hrs (*PI: N.M. Förster Schreiber*)
- ALMA, Cycle 10, 2023.1.00626.S, “A joint ALMA and JWST public Legacy Field - Abell 2744”, 29.7 hrs (*PI: V. Kokorev*)
- JWST, NIRCам, Cycle 2, #4111, “Medium bands, Mega Science: spatially-resolved  $R\sim 15$  spectrophotometry of 50,000 sources at  $z=0.3\text{--}12$ ”, 50 hrs (*PI: K. Suess*)
- JWST, NIRSpec, Cycle 2, #4106, “Extremely massive galaxies in the early universe: a challenge to  $\Lambda$ -CDM?”, 14 hrs (*PIs: E. Nelson, I. Labbé*)
- JWST, NIRSpec, Cycle 2, #4196, “How to Form a Compact Massive Galaxy: Spatially Resolved Maps of Pa-beta at  $z=2.3$ ”, 2.7 hrs (*PI: J. Gibson*)
- JWST, NIRSpec/NIRCам, Cycle 2, #4265, “Unveiling the interplay between the circumgalactic and interstellar media in a complex protocluster environment at  $z=4.5$ ”, 17 hrs (*PI: J. González López*)
- IRAM/NOEMA, W22, W22EB, “Resolved [CII] Kinematics and ISM Properties of  $z > 6$  Galaxies – I: Measuring the Fluxes”, 30 hrs (*PI: N.M. Förster Schreiber*)
- ALMA, Cycle 9, 2022.1.00073.S, “A joint ALMA and JWST public Legacy Field - Abell 2744”, 37.2 hrs (*PI: S. Fujimoto*)
- JWST, NIRCам/NIRSpec, Cycle 1 Treasury, #2561, “UNCOVER: Ultra-deep NIRCам and NIRSpec Observations Before the Epoch of Reionization”, 71 hrs (*PIs: I. Labbé, R. Bezanson*)
- JWST, NIRSpec, Cycle 1, #2110, “Ultra-deep continuum spectroscopy of quiescent galaxies at  $1.0 < z < 2.5$ : chemical abundances and stellar kinematics”, 23 hrs (*PIs: M. Kriek, A. Beverage*)
- ALMA, Cycle 8 Large Program, 2021.1.00280.L, “CRISTAL: a survey of gas, dust and stars on kiloparsec scales in star-forming galaxies at  $z\sim 4\text{--}5$ ”, 138.7 hrs (*PIs: M. Aravena, I. de Looze, N.M. Förster Schreiber, J. González López, R. Herrera-Camus, J. Spilker, K. Tadaki*)
- IRAM/NOEMA, W20, W20EM, “Resolved [CII] Kinematics and ISM Properties of a  $z > 6$  Galaxy”, 30 hrs (*PI: N.M. Förster Schreiber*)
- Keck, LRIS, F20/F19, U049/U160, “An Unprecedented Probe of the Multi-Phase Structure and Kinematics of Outflows at High Redshift”, 4 nights (*PI: A.E. Shapley*)
- IRAM/NOEMA, W19, W19CJ, “Characterizing Molecular Gas in Quenching Galaxies at  $z>1$ ”, 24 hrs (*PI: S. Belli*)
- IRAM/NOEMA, S19, L19MD, “NOEMA3D: a Comprehensive Census of the Molecular Gas Distribution & Kinematics of Massive Main-Sequence Star Forming Galaxies at the Peak and Winding Down of Galaxy Formation Activity”,  $\sim 1300$  hrs (*PIs: R. Genzel, R. Neri, L. Tacconi*)
- ALMA, Cycle 7, 2019.1.00477.S, “ColdSINS: an ALMA cold gas census of the deepest near-IR IFU+AO sample of  $z\sim 2$  star-forming galaxies”, 15 hrs (*PI: N.M. Förster Schreiber*)
- ALMA, Cycle 7, 2019.1.01362.S, “Testing the high- $z$  main-sequence paradigm with ALMA: from disk instability to clumps, bulge formation and quenching”, 31.6 hrs (*PI: R. Herrera-Camus*)
- ALMA, Cycles 6 & 7, 2018.1.00543.S / 2019.1.00640.S, “Simultaneous AGN and star formation driven feedback in action on a massive, typical galaxy at  $z\sim 2$ ”, 19.6 hrs (*PI: R. Herrera-Camus*)
- IRAM/NOEMA, W18, W18DG, “A Pilot Program for NOEMA3D: a Comprehensive Survey of Molecular Gas Kinematics and Distributions at Cosmic Noon”, 35 hrs (*PI: R. Genzel*)
- IRAM/NOEMA, W18, W18DN, “[CII] 158 micron line emission from three galaxies when the Universe was 700 million years old”, 45 hrs (*PI: R. Herrera-Camus*)
- IRAM/NOEMA, W18, W18DF, “Measuring the Molecular Gas Content of a Quenching Galaxy at  $z=1$ ”, 20 hrs (*PI: S. Belli*)

- VLT, SINFONI, Period 102, 0102.B-0062, “Witnessing angular momentum transport and the build-up of massive bulges through kiloparsec-scale kinematics of massive  $z=1-1.5$  star-forming galaxies with SINFONI+AO”, 7 nights (*PI: N.M. Förster Schreiber*)
- VLT, SINFONI, Period 102, 0102.B-0087, “Connecting galaxies through cosmic time – the outer disk rotation curves and baryonic-to-dark matter ratios of low-velocity galaxies at  $z=1-2$ ”, 4 nights (*PI: H. Übler*)
- Keck, MOSFIRE/LRIS, F18/S18/F17/S17/F16, U094/U258/U147/U091/U195, “The Heavy Metal Survey: The chemical enrichment, star-formation and assembly histories of  $z\sim 1.4-2.3$  quiescent galaxies”, 10/1 nights (*PI: M. Kriek*)

### Observing Experience

- European Southern Observatory, VLT, SINFONI (3 nights)
- W. M. Keck Observatory, Keck I 10 m telescope, MOSFIRE (10.5 nights), OSIRIS (3.5 nights), LRIS (0.5 night)

### Software Development

- Dysmalpy**: *MPE/IR-Submm Group, Co-lead & major contributor; Kinematic analysis in 1D, 2D, or 3D; port of IDL DYSMAL package (Cresci et al. 2009, Davies et al. 2011, Genzel et al. 2017). Led significant extensions adding multi-D support, Bayesian sampling, non-circular motions, and support for multiple observations including different kinematic tracers. Used in Price et al. 2021, Herrera-Camus et al. 2022, Übler et al. 2022, Nestor Shachar et al. 2023, Lee et al., subm.*  
 Repository: <https://github.com/dysmalpy/dysmalpy>  
 Docs: <https://www.mpe.mpg.de/resources/IR/DYSMALPY/>
- BEAST** (Bayesian Evaluation of Axis ratios to Sample galaxy Triaxiality): *Developed package for using Bayesian sampling to model galaxy ensemble 3D shapes through axis ratio fitting. Used in Gibson et al. 2024; Price et al. in prep. (accompanying public release)*
- deprojected\_sersic\_models**: *Developed package to compute and scale pre-computed deprojected oblate (or prolate) Sérsic model mass, density, and kinematic profiles. Used in Price et al. 2022.*  
[https://github.com/sedonaprice/deprojected\\_sersic\\_models](https://github.com/sedonaprice/deprojected_sersic_models)  
 Docs: [https://sedonaprice.github.io/deprojected\\_sersic\\_models](https://sedonaprice.github.io/deprojected_sersic_models)
- misfit**: *Developed package for 2D or 1D modeling of galaxy kinematics from misaligned slits, using spatially-resolved imaging profiles. Used in Price et al. 2016, 2020.*  
<https://github.com/sedonaprice/misfit>
- astropy/visualization**: *Contributor: added generalized scripts to generate RGB images, extending current functionality.* <https://github.com/astropy/astropy/pull/15081>

### Teaching

- 2023, 2024 AstroPGH Python Bootcamp, *Module instructor*, University of Pittsburgh
- 2013 Astro C10, *Co-head GSI, Introductory course for non-majors*, UC Berkeley
- 2012 Astro 7b, *GSI, Introductory course for majors*, UC Berkeley
- 2011 Astro C10, *GSI, Introductory course for non-majors*, UC Berkeley
- 2010, 2011 Physics 6, *TA, Sophomore physics major lab*, Caltech

### Student supervision & research mentoring

- Yunchong Zhang (*co-supervised, U. Pittsburgh graduate student, 2023–*)
- Morgana Iacocca (*co-supervised, U. Pittsburgh undergraduate/postbacc student, 2023–*)
- Lilian Lee (*research mentoring, MPE graduate student, 2021–*)
- Amit Nestor Shachar (*research mentoring, Tel Aviv University graduate student, 2019–*)
- Meng Luo (*co-supervised, UC Berkeley undergraduate student, 2014–2015*)

### Presentations

#### Colloquia & Seminars:

- 2024 Feb Colloquium, Cornell University, Ithaca, NY, USA
- 2024 Feb Seminar, Cornell University, Ithaca, NY, USA
- 2023 May Talk, Impossible Problems: Astronomy and Statistics Series, CMU, Pittsburgh, PA, USA
- 2023 Feb AstroLunch seminar, University of Pittsburgh, Pittsburgh, PA, USA
- 2022 Oct Colloquium, Penn State University, State College, PA, USA
- 2022 Jun Talk, Scientific Advisory Board, MPE, Garching, Germany

2017 Jun Cosmology seminar, UC Davis, CA, USA  
 2016 Nov Tea talk, Caltech, Pasadena, CA, USA  
 2016 Nov Lunch seminar, Carnegie Observatories, Pasadena, CA, USA  
 2016 Nov Seminar, CfA/Harvard, Cambridge, MA, USA  
 2016 Nov Lunch talk, MIT, Cambridge, MA, USA  
 2015 Nov Lunch talk, UC Berkeley, CA, USA  
 2013 Oct Lunch talk, UC Berkeley, CA, USA

#### *Conferences & Workshops:*

2024 Aug *\*Invited talk*, Measures of Luminous and Dark Matter in Galaxies Across Time, IAU General Assembly 2024: Focus Meeting 9, Cape Town, South Africa  
 2024 Jun *\*Invited talk*, Galaxy Evolution at High Resolution, Ringberg, Germany  
 2024 Mar *Talk*, The Physics and Impact of Astrophysical Dust: from Star Formation Through Cosmology, Aspen Center for Physics, Aspen, CO, USA  
 2023 Mar *Talk*, Early results from the James Webb Space Telescope, KICC, Cambridge, UK  
 2022 Sep *Talk*, Epoch of Galaxy Quenching 2022, KICC, Cambridge, UK  
 2022 Jul *\*Invited talk*, In Situ View of Galaxy Formation 2, Ringberg, Germany  
 2022 Jun *Talk*, LEGA-C Collaboration workshop, Bruges, Belgium  
 2021 Sep *Talk*, Spatially Resolved Spectroscopy with Extremely Large Telescopes, University of Oxford, virtual  
 2020 Mar *\*Invited talk*, GALFEED, IAU Symposium 359, Bento Gonçalves, RS, Brazil  
 2019 Oct *\*Invited talk*, Revolutionary Spectroscopy of Today as a Springboard to Webb, Lorentz Center, Leiden, the Netherlands  
 2019 Sep *\*Invited talk*, Second Forum on Gas in Galaxies, KIAA, Beijing, China  
 2019 Mar *\*Invited talk*, MOSAIC 2019 Science meeting, Universität Heidelberg, Heidelberg, Germany  
 2018 Dec *Talk*, KMOS@5, ESO Workshop, Garching, Germany  
 2018 Aug *Talk*, Santa Cruz Galaxy Workshop, Santa Cruz, CA, USA  
 2017 Jun *Talk*, Advances in Galaxy Evolution, Ringberg, Germany  
 2016 Sep *Talk*, Keck Science Meeting, Pasadena, CA, USA  
 2016 Aug *Talk*, Santa Cruz Galaxy Workshop, Santa Cruz, CA, USA  
 2016 Jul *Talk*, Discs in Galaxies, Munich Joint Conference, Garching, Germany  
 2016 Apr *Poster*, What Shapes Galaxies?, STScI Spring Symposium, Baltimore, MD, USA  
 2015 Aug *Talk*, Galaxies at High Redshift and Their Evolution over Cosmic Time, IAU Symposium 319, Honolulu, HI, USA  
 2013 May *Talk*, Galaxy formation from  $z=5$  to  $z=0$ , Lorentz Center, Leiden, the Netherlands

#### **Service**

— Referee, *The Astrophysical Journal (ApJ)*, *Nature*  
 2024 JWST TAC discussion panelist, *Cycle 3*  
 2023 Pittsburgh AstroLunch co-organizer, University of Pittsburgh  
 2023 Sep Discussion leader, *Astro group NSF GRFP application session*, University of Pittsburgh  
 2013-2016 Mentoring coordinator, *co-head of grad student mentoring program*, UC Berkeley  
 2013-2015 Mentor, *mentoring junior graduate student*, UC Berkeley  
 2012-2015 Graduate Student Representative, *Astronomy Department*, UC Berkeley

#### **Science Communication**

2023 Apr Astronomy on Tap, *Public Outreach talk*, Pittsburgh, PA, USA  
 2020 Jan IR Group Science and Instrument presentation, *Visiting college student tour*, MPE  
 2017 Apr Solar Activities, *Marin Elementary STEAM day*, UC Berkeley  
 2012-2017 Annual Cal Day, *Astronomy Department exposition*, UC Berkeley  
 2014-2017 Mentoring Group, *Society of Women in Physical Sciences*, UC Berkeley  
 2016 May Solar Viewing, *Ecology Center Festival*, UC Berkeley  
 2011-2015 Annual Bay Area Science Festival, *Science@Cal*, UC Berkeley  
 2013-2015 Annual Astronomy Demo Day, *Meher School 5th grade class*, UC Berkeley  
 2012-2014 Mentor, *Berkeley Compass Project*, UC Berkeley  
 2012 Mar Expanding Your Horizons workshop, *for middle school girls*, UC Berkeley

## First & Second Author and Student-led Publications

<sup>†</sup>Denotes student-led paper

14. <sup>†</sup>Lee, L. L., Förster Schreiber, N. M., **Price, S. H.**, et al., “Disk kinematics at high redshift: DymalPy’s extension to 3D modeling and comparison with different approaches,” 2024, [arXiv:2411.07312](#)
13. **Price, S. H.**, Bezanson, R., Labbe, I., et al., “The UNCOVER Survey: First Release of Ultradeep JWST/NIRSpec PRISM spectra for  $\sim 700$  galaxies from  $z \sim 0.3$ -13 in Abell 2744,” 2024, [arXiv:2408.03920](#)
12. <sup>†</sup>Zhang, Y., Setton, D. J., **Price, S. H.**, et al., “DESI Massive Post-Starburst Galaxies at  $z \sim 1.2$  have compact structures and dense cores,” 2024, [arXiv:2407.21257](#)
11. **Price, S. H.**, Suess, K. A., Williams, C. C., et al., “UNCOVER: The rest ultraviolet to near infrared multiwavelength structures and dust distributions of sub-millimeter-detected galaxies in Abell 2744,” 2023, [arXiv:2310.02500](#)
10. <sup>†</sup>Nestor Shachar, A., **Price, S. H.**, Förster Schreiber, N. M., et al., “RC100: Rotation Curves of 100 Massive Star-forming Galaxies at  $z = 0.6$ -2.5 Reveal Little Dark Matter on Galactic Scales,” 2023, [ApJ 944 78](#)
9. **Price, S. H.**, Übler, H., Förster Schreiber, N. M., et al., “Kinematics and mass distributions for non-spherical deprojected Sérsic density profiles and applications to multi-component galactic systems,” 2022, [A&A 665 A159](#)
8. **Price, S. H.**, Shimizu, T. T., Genzel, R., et al., “Rotation Curves in  $z \sim 1$ -2 Star-forming Disks: Comparison of Dark Matter Fractions and Disk Properties for Different Fitting Methods,” 2021, [ApJ 922 143](#)
7. Genzel, R., **Price, S. H.**, Übler, H., et al., “Rotation Curves in  $z \sim 1$ -2 Star-forming Disks: Evidence for Cored Dark Matter Distributions,” 2020, [ApJ 902 98](#)
6. **Price, S. H.**, Kriek, M., Barro, G., et al., “The MOSDEF Survey: Kinematic and Structural Evolution of Star-forming Galaxies at  $1.4 \leq z \leq 3.8$ ,” 2020, [ApJ 894 91](#)
5. Kriek, M., **Price, S. H.**, Conroy, C., et al., “Stellar Metallicities and Elemental Abundance Ratios of  $z \sim 1.4$  Massive Quiescent Galaxies,” 2019, [ApJL 880 L31](#)
4. **Price, S. H.**, Kriek, M., Feldmann, R., et al., “Testing the Recovery of Intrinsic Galaxy Sizes and Masses of  $z \sim 2$  Massive Galaxies Using Cosmological Simulations,” 2017, [ApJL 844 L6](#)
3. **Price, S. H.**, Kriek, M., Shapley, A. E., et al., “The MOSDEF Survey: Dynamical and Baryonic Masses and Kinematic Structures of Star-Forming Galaxies at  $1.4 \leq z \leq 2.6$ ,” 2016, [ApJ 819 80](#)
2. **Price, S. H.**, Kriek, M., Brammer, G. B., et al., “Direct Measurements of Dust Attenuation in  $z \sim 1.5$  Star-Forming Galaxies from 3D-HST: Implications for Dust Geometry and Star Formation Rates,” 2014, [ApJ 788 86](#)
1. Bergé, J., **Price, S.**, Amara, A., & Rhodes, J., “On point spread function modelling: towards optimal interpolation,” 2012, [MNRAS 419 2356](#)

## Contributing Author Publications

115. Setton, D. J., Greene, J. E., de Graaff, A., et al., including **SHP**, “Little Red Dots at an Inflection Point: Ubiquitous ‘V-Shaped’ Turnover Consistently Occurs at the Balmer Limit,” 2024, [arXiv:2411.03424](#)
114. Lorenz, B., Kriek, M., Shapley, A. E., et al., including **SHP**, “Stacking and Analyzing MOSDEF Galaxies by Spectral Types: Implications for Dust Geometry and Galaxy Evolution,” 2024, [ApJ 975 187](#)
113. Villanueva, V., Herrera-Camus, R., González-López, J., et al., including **SHP**, “The ALMA-CRISTAL survey: Dust temperature and physical conditions of the interstellar medium in a typical galaxy at  $z = 5.66$ ,” 2024, [A&A 691 A133](#)
112. Setton, D. J., Khullar, G., Miller, T. B., et al., including **SHP**, “UNCOVER NIRSpec/PRISM Spectroscopy Unveils Evidence of Early Core Formation in a Massive, Centrally Dusty Quiescent Galaxy at  $z_{\text{spec}} = 3.97$ ,” 2024, [ApJ 974 145](#)
111. Bezanson, R., Labbe, I., Whitaker, K. E., et al., including **SHP**, “The JWST UNCOVER Treasury Survey: Ultradeep NIRSpec and NIRCам Observations before the Epoch of Reionization,” 2024, [ApJ 974 92](#)
110. Gibson, J. L., Nelson, E., Williams, C. C., et al., including **SHP**, “JADES Ultrared Flattened Objects: Morphologies and Spatial Gradients in Color and Stellar Populations,” 2024, [ApJ 974 48](#)

109. Benton, C. E., Nelson, E. J., Miller, T. B., et al., including [SHP](#), “*JWST Reveals Bulge-dominated Star-forming Galaxies at Cosmic Noon*,” 2024, [ApJL 974 L28](#)
108. Slob, M., Kriek, M., Beverage, A. G., et al., including [SHP](#), “*The JWST-SUSPENSE Ultradeep Spectroscopic Program: Survey Overview and Star Formation Histories of Quiescent Galaxies at  $1 < z < 3$* ,” 2024, [ApJ 973 131](#)
107. Cooper, O. R., Brammer, G., Heintz, K. E., et al., including [SHP](#), “*RUBIES: JWST/NIRSpec resolves evolutionary phases of dusty star-forming galaxies at  $z \sim 2$* ,” 2024, [arXiv:2410.08387](#)
106. Ma, Y., Greene, J. E., Setton, D. J., et al., including [SHP](#), “*UNCOVER: 404 Error – Models Not Found for the Triply Imaged Little Red Dot A2744-QSO1*,” 2024, [arXiv:2410.06257](#)
105. Treiber, H., Greene, J., Weaver, J. R., et al., including [SHP](#), “*UNCOVERing the High-Redshift AGN Population Among Extreme UV Line Emitters*,” 2024, [arXiv:2409.12232](#)
104. Siegel, J., Setton, D., Greene, J., et al., including [SHP](#), “*UNCOVER: Significant Reddening in Cosmic Noon Quiescent Galaxies*,” 2024, [arXiv:2409.11457](#)
103. de Graaff, A., Brammer, G., Weibel, A., et al., including [SHP](#), “*RUBIES: a complete census of the bright and red distant Universe with JWST/NIRSpec*,” 2024, [arXiv:2409.05948](#)
102. Chemerynska, I., Atek, H., Dayal, P., et al., including [SHP](#), “*The Extreme Low-mass End of the Mass-Metallicity Relation at  $z \sim 7$* ,” 2024, [arXiv:2407.17110](#)
101. Weldon, A., Reddy, N. A., Coil, A. L., et al., including [SHP](#), “*The MOSDEF survey: properties of warm ionized outflows at  $z = 1.4-3.8$* ,” 2024, [MNRAS 531 4560-4576](#)
100. Beverage, A. G., Slob, M., Kriek, M., et al., including [SHP](#), “*Carbon and Iron Deficiencies in Quiescent Galaxies at  $z=1-3$  from JWST-SUSPENSE: Implications for the Formation Histories of Massive Galaxies*,” 2024, [arXiv:2407.02556](#)
99. Kehoe, E., Shapley, A. E., Forster Schreiber, N. M., et al., including [SHP](#), “*The First Combined H $\alpha$  and Rest-UV Spectroscopic Probe of Galactic Outflows at High Redshift*,” 2024, [arXiv:2406.07621](#)
98. Chemerynska, I., Atek, H., Furtak, L. J., et al., including [SHP](#), “*JWST UNCOVER: the overabundance of ultraviolet-luminous galaxies at  $z > 9$* ,” 2024, [MNRAS 531 2615-2625](#)
97. Cutler, S. E., Whitaker, K. E., Weaver, J. R., et al., including [SHP](#), “*Two Distinct Classes of Quiescent Galaxies at Cosmic Noon Revealed by JWST PRIMER and UNCOVER*,” 2024, [ApJL 967 L23](#)
96. Kriek, M., Beverage, A. G., [Price, S. H.](#), et al., “*The Heavy Metal Survey: Star Formation Constraints and Dynamical Masses of 21 Massive Quiescent Galaxies at  $z = 1.3-2.3$* ,” 2024, [ApJ 966 36](#)
95. Beverage, A. G., Kriek, M., Suess, K. A., et al., including [SHP](#), “*The Heavy Metal Survey: The Evolution of Stellar Metallicities, Abundance Ratios, and Ages of Massive Quiescent Galaxies since  $z \sim 2$* ,” 2024, [ApJ 966 234](#)
94. Furtak, L. J., Labbé, I., Zitrin, A., et al., including [SHP](#), “*A high black-hole-to-host mass ratio in a lensed AGN in the early Universe*,” 2024, [Nature 628 57-61](#)
93. Suess, K. A., Weaver, J. R., [Price, S. H.](#), et al., “*Medium Bands, Mega Science: a JWST/NIRCam Medium-Band Imaging Survey of Abell 2744*,” 2024, [arXiv:2404.13132](#)
92. de Graaff, A., Setton, D. J., Brammer, G., et al., including [SHP](#), “*Efficient formation of a massive quiescent galaxy at redshift 4.9*,” 2024, [arXiv:2404.05683](#)
91. Greene, J. E., Labbe, I., Goulding, A. D., et al., including [SHP](#), “*UNCOVER Spectroscopy Confirms the Surprising Ubiquity of Active Galactic Nuclei in Red Sources at  $z > 5$* ,” 2024, [ApJ 964 39](#)
90. Wang, B., Leja, J., Atek, H., et al., including [SHP](#), “*Quantifying the Effects of Known Unknowns on Inferred High-redshift Galaxy Properties: Burstiness, IMF, and Nebular Physics*,” 2024, [ApJ 963 74](#)
89. Atek, H., Labbé, I., Furtak, L. J., et al., including [SHP](#), “*Most of the photons that reionized the Universe came from dwarf galaxies*,” 2024, [Nature 626 975-978](#)
88. Burgasser, A. J., Bezanson, R., Labbe, I., et al., including [SHP](#), “*UNCOVER: JWST Spectroscopy of Three Cold Brown Dwarfs at Kiloparsec-scale Distances*,” 2024, [ApJ 962 177](#)



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### Grants

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