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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 / Cycle 2 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

- Pitt Center for Research Computing, 2025, "Characterizing the Composition and Shapes of Distant ( $z > 1$ ) Galaxies with JWST", 1,500,000 hrs
- 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", 228,900 hrs

## Approved Proposals as Co-I

- JWST, MIRI/NIRCam, Cycle 4, #7814, "MINERVA: Unlocking the Hidden Gems of the Distant Universe and Completing HST and JWST's Imaging Legacy with Medium Bands", 259.8 hrs (PI: A. Muzzini; D. Marchesini; K. Suess)
- JWST, NIRSpec, Cycle 4, #8607, "Studying cosmic noon at 200 parsec scales: resolved spectroscopy of a magnified dusty quiescent galaxy", 19.7 hrs (PI: J. Siegel)
- JWST, NIRSpec, Cycle 4, #8317, "The Return of the Giants: Constraining the TP-AGB Phase across Cosmic Time", 7.6 hrs (PI: M. Kriek)
- JWST, NIRSpec, Cycle 4, #8047, "Extremely massive galaxies in the early universe? Confirming the nature of the most model-breaking object by hunting for stellar absorption features", 19.7 hrs (PI: B. Wang)

- 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 hrs (*PI: J. Greene*)
- ALMA, Cycle 11, 2024.1.00551.S, “Probing the Host Galaxies of 45 Broad-line Little Red Dots at  $z_{\text{spec}}=4.13-8.50$  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  $z=0.3-12$ ”, 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  $z\sim 4-5$ ”, 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”, 1,300 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, <i>Module instructor</i> , University of Pittsburgh   |
| 2013       | Astro C10, <i>Co-head GSI, Introductory course for non-majors</i> , UC Berkeley |
| 2012       | Astro 7b, <i>GSI, Introductory course for majors</i> , UC Berkeley              |
| 2011       | Astro C10, <i>GSI, Introductory course for non-majors</i> , UC Berkeley         |
| 2010, 2011 | Physics 6, <i>TA, Sophomore physics major lab</i> , 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*  
 2025 JWST TAC discussion panelist, *Cycle 4*  
 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

2024 Nov	Astronomy on Tap, <i>Public Outreach talk</i> , Pittsburgh, PA, USA
2023 Apr	Astronomy on Tap, <i>Public Outreach talk</i> , Pittsburgh, PA, USA
2020 Jan	IR Group Science and Instrument presentation, <i>Visiting college student tour</i> , MPE
2017 Apr	Solar Activities, <i>Marin Elementary STEAM day</i> , UC Berkeley
2012-2017	Annual Cal Day, <i>Astronomy Department exposition</i> , UC Berkeley
2014-2017	Mentoring Group, <i>Society of Women in Physical Sciences</i> , UC Berkeley
2016 May	Solar Viewing, <i>Ecology Center Festival</i> , UC Berkeley
2011-2015	Annual Bay Area Science Festival, <i>Science@Cal</i> , UC Berkeley
2013-2015	Annual Astronomy Demo Day, <i>Meher School 5th grade class</i> , UC Berkeley
2012-2014	Mentor, <i>Berkeley Compass Project</i> , UC Berkeley
2012 Mar	Expanding Your Horizons workshop, <i>for middle school girls</i> , UC Berkeley

### First & Second Author and Student-led Publications

<sup>†</sup>Denotes student-led paper

14. **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  $z \sim 0.3$ – $1.3$  in A2744*,” 2025, [ApJ 982 51](#)
13. **Price, S. H.**, Suess, K. A., Williams, C. C., et al., “*UNCOVER: The Rest-ultraviolet to Near-infrared Multiwavelength Structures and Dust Distributions of Submillimeter-detected Galaxies in A2744*,” 2025, [ApJ 980 11](#)
12. <sup>†</sup>Lee, L. L., Förster Schreiber, N. M., **Price, S. H.**, et al., “*Disk Kinematics at High Redshift: DysmalPy’s Extension to 3D Modeling and Comparison with Different Approaches*,” 2025, [ApJ 978 14](#)
11. <sup>†</sup>Zhang, Y., Setton, D. J., **Price, S. H.**, et al., “*DESI Massive Poststarburst Galaxies at  $z \sim 1.2$  Have Compact Structures and Dense Cores*,” 2024, [ApJ 976 36](#)
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

126. Wang, B., Leja, J., Atek, H., et al., including [SHP](#), “Population Models for Star Formation Timescales in Early Galaxies: The First Step Towards Solving Outshining in Star Formation History Inference,” 2025, [arXiv:2504.15255](#)
125. Cutler, S. E., Weaver, J. R., Whitaker, K. E., et al., including [SHP](#), “The Structure and Formation Histories of Low-Mass Quiescent Galaxies in the Abell 2744 Cluster Environment,” 2025, [arXiv:2504.10572](#)
124. Pan, R., Suess, K. A., Marchesini, D., et al., including [SHP](#), “UNCOVER/MegaScience: No Evidence of Environmental Quenching in a  $z \sim 2.6$  Proto-cluster,” 2025, [arXiv:2504.06334](#)
123. Cooper, O. R., Brammer, G., Heintz, K. E., et al., including [SHP](#), “RUBIES: JWST/NIRSpec Resolves Evolutionary Phases of Dusty Star-forming Galaxies at  $z \sim 2$ ,” 2025, [ApJ 982 125](#)
122. Setton, D. J., Greene, J. E., Spilker, J. S., et al., including [SHP](#), “A confirmed deficit of hot and cold dust emission in the most luminous Little Red Dots,” 2025, [arXiv:2503.02059](#)
121. Nestor Shachar, A., Sternberg, A., Genzel, R., et al., including [SHP](#), “A large-scale ring galaxy at  $z = 2.2$  revealed by JWST/NIRCam: kinematic observations and analytical modelling,” 2025, [arXiv:2503.00839](#)
120. 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,” 2025, [ApJ 981 191](#)
119. Barfety, C., Jolly, J.-B., Förster Schreiber, N. M., et al., including [SHP](#), “PHIBSS: Searching for Molecular Gas Outflows in Star-Forming Galaxies at  $z = 0.5-2.6$ ,” 2025, [arXiv:2502.13226](#)
118. de Graaff, A., Setton, D. J., Brammer, G., et al., including [SHP](#), “Efficient formation of a massive quiescent galaxy at redshift 4.9,” 2025, [Nature Astronomy 9 280-292](#)
117. Furtak, L. J., Secunda, A. R., Greene, J. E., et al., including [SHP](#), “Investigating photometric and spectroscopic variability in the multiply-imaged Little Red Dot A2744-QSO1,” 2025, [arXiv:2502.07875](#)
116. 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,” 2025, [ApJ 979 249](#)
115. Whitaker, K. E., Cutler, S. E., Chandar, R., et al., including [SHP](#), “Discovery of Ancient Globular Cluster Candidates in The Relic, a Quiescent Galaxy at  $z=2.5$ ,” 2025, [arXiv:2501.07627](#)
114. Martorano, M., van der Wel, A., Baes, M., et al., including [SHP](#), “Evolution of the Sérsic Index up to  $z=2.5$  from JWST and HST,” 2025, [arXiv:2501.02956](#)
113. Labbe, I., Greene, J. E., Bezanson, R., et al., including [SHP](#), “UNCOVER: Candidate Red Active Galactic Nuclei at  $3 < z < 7$  with JWST and ALMA,” 2025, [ApJ 978 92](#)
112. Miller, T. B., Suess, K. A., Setton, D. J., et al., including [SHP](#), “JWST UNCOVERs the Optical Size - Stellar Mass Relation at  $4 < z < 8$ : Rapid Growth in the Sizes of Low Mass Galaxies in the First Billion Years of the Universe,” 2024, [arXiv:2412.06957](#)
111. Labbe, I., Greene, J. E., Matthee, J., et al., including [SHP](#), “An unambiguous AGN and a Balmer break in an Ultraluminous Little Red Dot at  $z=4.47$  from Ultradeep UNCOVER and All the Little Things Spectroscopy,” 2024, [arXiv:2412.04557](#)
110. Fujimoto, S., Wang, B., Weaver, J. R., et al., including [SHP](#), “UNCOVER: A NIRSpec Census of Lensed Galaxies at  $z = 8.50-13.08$  Probing a High-AGN Fraction and Ionized Bubbles in the Shadow,” 2024, [ApJ 977 250](#)
109. Nelson, E., Brammer, G., Giménez-Arteaga, C., et al., including [SHP](#), “Ionized Gas Kinematics with FRESCO: An Extended, Massive, Rapidly Rotating Galaxy at  $z = 5.4$ ,” 2024, [ApJL 976 L27](#)
108. Suess, K. A., Weaver, J. R., **Price, S. H.**, et al., “Medium Bands, Mega Science: A JWST/NIRCam Medium-band Imaging Survey of A2744,” 2024, [ApJ 976 101](#)
107. Kehoe, E., Shapley, A. E., Schreiber, N. M. F., et al., including [SHP](#), “The First Combined H $\alpha$  and Rest-UV Spectroscopic Probe of Galactic Outflows at High Redshift,” 2024, [ApJ 976 28](#)
106. 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, [ApJL 976 L15](#)



105. 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](#)
104. 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](#)
103. 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](#)
102. 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](#)
101. 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](#)
100. 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](#)
99. 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](#)
98. 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](#)
97. 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](#)
96. Siegel, J., Setton, D., Greene, J., et al., including [SHP](#), “*UNCOVER: Significant Reddening in Cosmic Noon Quiescent Galaxies*,” 2024, [arXiv:2409.11457](#)
95. 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](#)
94. Weldon, A., Reddy, N. A., Coil, A. L., et al., including [SHP](#), “*The MOSDEF survey: properties of warm ionized outflows at  $z = 1.4\text{--}3.8$* ,” 2024, [MNRAS 531 4560-4576](#)
93. 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](#)
92. 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](#)
91. 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  $z = 1.3\text{--}2.3$* ,” 2024, [ApJ 966 36](#)
90. 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](#)
89. 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](#)
88. 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](#)
87. 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](#)
86. 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](#)
85. 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](#)
84. Lee, M. M., Steidel, C. C., Brammer, G., et al., including [SHP](#), “*High dust content of a quiescent galaxy at  $z \sim 2$  revealed by deep ALMA observation*,” 2024, [MNRAS 527 9529-9547](#)

83. Wang, B., Leja, J., Labbé, I., et al., including [SHP](#), “*The UNCOVER Survey: A First-look HST+JWST Catalog of Galaxy Redshifts and Stellar Population Properties Spanning  $0.2 \lesssim z \lesssim 15$* ,” 2024, [ApJS 270 12](#)
82. Weaver, J. R., Cutler, S. E., Pan, R., et al., including [SHP](#), “*The UNCOVER Survey: A First-look HST + JWST Catalog of 60,000 Galaxies near A2744 and beyond*,” 2024, [ApJS 270 7](#)
81. Übler, H., Förster Schreiber, N. M., van der Wel, A., et al., including [SHP](#), “*Galaxy kinematics and mass estimates at  $z \sim 1$  from ionized gas and stars*,” 2024, [MNRAS 527 9206-9235](#)
80. Genzel, R., Jolly, J.-B., Liu, D., et al., including [SHP](#), “*Evidence for Large-scale, Rapid Gas Inflows in  $z \sim 2$  Star-forming Disks*,” 2023, [ApJ 957 48](#)
79. Martorano, M., van der Wel, A., Bell, E. F., et al., including [SHP](#), “*Rest-frame Near-infrared Radial Light Profiles up to  $z = 3$  from JWST/NIRCam: Wavelength Dependence of the Sérsic Index*,” 2023, [ApJ 957 46](#)
78. Wang, B., Fujimoto, S., Labbé, I., et al., including [SHP](#), “*UNCOVER: Illuminating the Early Universe-JWST/NIRSpec Confirmation of  $z > 12$  Galaxies*,” 2023, [ApJL 957 L34](#)
77. Kokorev, V., Fujimoto, S., Labbe, I., et al., including [SHP](#), “*UNCOVER: A NIRSpec Identification of a Broad-line AGN at  $z = 8.50$* ,” 2023, [ApJL 957 L7](#)
76. Atek, H., Chemerynska, I., Wang, B., et al., including [SHP](#), “*JWST UNCOVER: discovery of  $z > 9$  galaxy candidates behind the lensing cluster Abell 2744*,” 2023, [MNRAS 524 5486-5496](#)
75. Goulding, A. D., Greene, J. E., Setton, D. J., et al., including [SHP](#), “*UNCOVER: The Growth of the First Massive Black Holes from JWST/NIRSpec-Spectroscopic Redshift Confirmation of an X-Ray Luminous AGN at  $z = 10.1$* ,” 2023, [ApJL 955 L24](#)
74. Fujimoto, S., Bezanson, R., Labbe, I., et al., including [SHP](#), “*DUALZ – Deep UNCOVER-ALMA Legacy High-Z Survey*,” 2023, [arXiv:2309.07834](#)
73. Furtak, L. J., Zitrin, A., Plat, A., et al., including [SHP](#), “*JWST UNCOVER: Extremely Red and Compact Object at  $z_{\text{phot}} \simeq 7.6$  Triply Imaged by A2744*,” 2023, [ApJ 952 142](#)
72. Weldon, A., Reddy, N. A., Topping, M. W., et al., including [SHP](#), “*The MOSDEF-LRIS survey: detection of inflowing gas towards three star-forming galaxies at  $z \sim 2$* ,” 2023, [MNRAS 523 5624-5634](#)
71. Furtak, L. J., Zitrin, A., Weaver, J. R., et al., including [SHP](#), “*UNCOVERing the extended strong lensing structures of Abell 2744 with the deepest JWST imaging*,” 2023, [MNRAS 523 4568-4582](#)
70. Lorenz, B., Kriek, M., Shapley, A. E., et al., including [SHP](#), “*An Updated Dust-to-Star Geometry: Dust Attenuation Does Not Depend on Inclination in  $1.3 \leq z \leq 2.6$  Star-forming Galaxies from MOSDEF*,” 2023, [ApJ 951 29](#)
69. Nelson, E. J., Suess, K. A., Bezanson, R., et al., including [SHP](#), “*JWST Reveals a Population of Ultrared, Flattened Galaxies at  $2 < z < 6$  Previously Missed by HST*,” 2023, [ApJL 948 L18](#)
68. Wang, B., Leja, J., Bezanson, R., et al., including [SHP](#), “*Inferring More from Less: Prospector as a Photometric Redshift Engine in the Era of JWST*,” 2023, [ApJL 944 L58](#)
67. Liu, D., Förster Schreiber, N. M., Genzel, R., et al., including [SHP](#), “*An 600 pc View of the Strongly Lensed, Massive Main-sequence Galaxy J0901: A Baryon-dominated, Thick Turbulent Rotating Disk with a Clumpy Cold Gas Ring at  $z = 2.259$* ,” 2023, [ApJ 942 98](#)
66. Sanders, R. L., Shapley, A. E., Jones, T., et al., including [SHP](#), “*CO Emission, Molecular Gas, and Metallicity in Main-sequence Star-forming Galaxies at  $z \sim 2.3$* ,” 2023, [ApJ 942 24](#)
65. Fetherolf, T., Reddy, N. A., Shapley, A. E., et al., including [SHP](#), “*The MOSDEF survey: probing resolved stellar populations at  $z \sim 2$  Using a new bayesian-defined morphology metric called patchiness*,” 2023, [MNRAS 518 4214-4237](#)
64. Runco, J. N., Shapley, A. E., Kriek, M., et al., including [SHP](#), “*The MOSDEF survey: a new view of a remarkable  $z = 1.89$  merger*,” 2022, [MNRAS 517 4405-4416](#)
63. Runco, J. N., Shapley, A. E., Sanders, R. L., et al., including [SHP](#), “*The MOSDEF survey: towards a complete census of the  $z \sim 2.3$  star-forming galaxy population*,” 2022, [MNRAS 517 4337-4354](#)
62. Naidu, R. P., Oesch, P. A., van Dokkum, P., et al., including [SHP](#), “*Two Remarkably Luminous Galaxy Candidates at  $z \approx 10-12$  Revealed by JWST*,” 2022, [ApJL 940 L14](#)



61. Suess, K. A., Bezanson, R., Nelson, E. J., et al., including **SHP**, “Rest-frame Near-infrared Sizes of Galaxies at Cosmic Noon: Objects in JWST’s Mirror Are Smaller than They Appeared,” 2022, [ApJL 937 L33](#)
60. Weldon, A., Reddy, N. A., Topping, M. W., et al., including **SHP**, “The MOSDEF-LRIS survey: connection between galactic-scale outflows and the properties of  $z \sim 2$  star-forming galaxies,” 2022, [MNRAS 515 841-856](#)
59. Herrera-Camus, R., Förster Schreiber, N. M., **Price, S. H.**, et al., “Kiloparsec view of a typical star-forming galaxy when the Universe was  $\sim 1$  Gyr old. II. Regular rotating disk and evidence for baryon dominance on galactic scales,” 2022, [A&A 665 L8](#)
58. Runco, J. N., Reddy, N. A., Shapley, A. E., et al., including **SHP**, “Reconciling the results of the  $z \sim 2$  MOSDEF and KBSS-MOSFIRE Surveys,” 2022, [MNRAS 513 3871](#)
57. Shapley, A. E., Sanders, R. L., Salim, S., et al., including **SHP**, “The MOSFIRE Deep Evolution Field Survey: Implications of the Lack of Evolution in the Dust Attenuation-Mass Relation to  $z \sim 2$ ,” 2022, [ApJ 926 145](#)
56. Reddy, N. A., Topping, M. W., Shapley, A. E., et al., including **SHP**, “The Effects of Stellar Population and Gas Covering Fraction on the Emergent Ly $\alpha$  Emission of High-redshift Galaxies,” 2022, [ApJ 926 31](#)
55. Fetherolf, T., Reddy, N. A., Shapley, A. E., et al., including **SHP**, “The MOSDEF survey: the dependence of H $\alpha$ -to-UV SFR ratios on SFR and size at  $z \sim 2$ ,” 2021, [MNRAS 508 1431-1445](#)
54. Topping, M. W., Shapley, A. E., Sanders, R. L., et al., including **SHP**, “The MOSDEF survey: the mass-metallicity relationship and the existence of the FMR at  $z \sim 1.5$ ,” 2021, [MNRAS 506 1237](#)
53. Suess, K. A., Kriek, M., **Price, S. H.**, & Barro, G., “Dissecting the size-mass and  $\Sigma 1$ -mass relations at  $1.0 < z < 2.5$ : Galaxy Mass Profiles and Color Gradients as a Function of Spectral Shape,” 2021, [ApJ 915 87](#)
52. Sanders, R. L., Shapley, A. E., Jones, T., et al., including **SHP**, “The MOSDEF Survey: The Evolution of the Mass-Metallicity Relation from  $z = 0$  to  $z \sim 3.3$ ,” 2021, [ApJ 914 19](#)
51. Runco, J. N., Shapley, A. E., Sanders, R. L., et al., including **SHP**, “The MOSDEF survey: a comprehensive analysis of the rest-optical emission-line properties of  $z \sim 2.3$  star-forming galaxies,” 2021, [MNRAS 502 2600](#)
50. Johansson, J., Goobar, A., **Price, S. H.**, et al., “Spectroscopy of the first resolved strongly lensed Type Ia supernova iPTF16geu,” 2021, [MNRAS 502 510](#)
49. Davies, R. L., Förster Schreiber, N. M., Genzel, R., et al., including **SHP**, “The KMOS<sup>3D</sup> Survey: Investigating the Origin of the Elevated Electron Densities in Star-forming Galaxies at  $1 \lesssim z \lesssim 3$ ,” 2021, [ApJ 909 78](#)
48. Belli, S., Contursi, A., Genzel, R., et al., including **SHP**, “The Diverse Molecular Gas Content of Massive Galaxies Undergoing Quenching at  $z \sim 1$ ,” 2021, [ApJL 909 L11](#)
47. Chartab, N., Mobasher, B., Shapley, A. E., et al., including **SHP**, “The MOSDEF Survey: Environmental Dependence of the Gas-phase Metallicity of Galaxies at  $1.4 \leq z \leq 2.6$ ,” 2021, [ApJ 908 120](#)
46. Horstman, K., Shapley, A. E., Sanders, R. L., et al., including **SHP**, “The MOSDEF survey: differences in SFR and metallicity for morphologically selected mergers at  $z \sim 2$ ,” 2021, [MNRAS 501 137](#)
45. Übler, H., Genel, S., Sternberg, A., et al., including **SHP**, “The kinematics and dark matter fractions of TNG50 galaxies at  $z = 2$  from an observational perspective,” 2021, [MNRAS 500 4597](#)
44. Reddy, N. A., Shapley, A. E., Kriek, M., et al., including **SHP**, “The MOSDEF Survey: The First Direct Measurements of the Nebular Dust Attenuation Curve at High Redshift,” 2020, [ApJ 902 123](#)
43. Jeong, M.-S., Shapley, A. E., Sanders, R. L., et al., including **SHP**, “The MOSDEF Survey: Neon as a Probe of ISM Physical Conditions at High Redshift,” 2020, [ApJL 902 L16](#)
42. Fetherolf, T., Reddy, N. A., Shapley, A. E., et al., including **SHP**, “The MOSDEF survey: an improved Voronoi binning technique on spatially resolved stellar populations at  $z \sim 2$ ,” 2020, [MNRAS 498 5009](#)
41. Suess, K. A., Kriek, M., **Price, S. H.**, & Barro, G., “Color Gradients along the Quiescent Galaxy Sequence: Clues to Quenching and Structural Growth,” 2020, [ApJL 899 L26](#)
40. Shivaee, I., Reddy, N., Rieke, G., et al., including **SHP**, “The MOSDEF Survey: The Variation of the Dust Attenuation Curve with Metallicity,” 2020, [ApJ 899 117](#)

39. Davies, R. L., Förster Schreiber, N. M., Lutz, D., et al., including [SHP](#), “From Nuclear to Circumgalactic: Zooming in on AGN-driven Outflows at  $z \sim 2.2$  with SINFONI,” 2020, [ApJ 894 28](#)
38. Wilman, D. J., Fossati, M., Mendel, J. T., et al., including [SHP](#), “The Regulation of Galaxy Growth along the Size-Mass Relation by Star Formation, as Traced by H $\alpha$  in KMOS<sup>3D</sup> Galaxies at  $0.7 \lesssim z \lesssim 2.7$ ,” 2020, [ApJ 892 1](#)
37. Sanders, R. L., Shapley, A. E., Reddy, N. A., et al., including [SHP](#), “The MOSDEF Survey: Direct-Method Metallicities and ISM Conditions at  $z \sim 1.5 - 3.5$ ,” 2020, [MNRAS 491 1427](#)
36. Sanders, R. L., Jones, T., Shapley, A. E., et al., including [SHP](#), “The MOSDEF Survey: [S III] as a New Probe of Evolving Interstellar Medium Conditions,” 2020, [ApJL 888 L11](#)
35. Wisnioski, E., Förster Schreiber, N. M., Fossati, M., et al., including [SHP](#), “The KMOS<sup>3D</sup> Survey: data release and final survey paper,” 2019, [ApJ 886 124](#)
34. Leung, G. C. K., Coil, A. L., Aird, J., et al., including [SHP](#), “The MOSDEF survey: a census of AGN-driven ionized outflows at  $z = 1.4 - 3.8$ ,” 2019, [ApJ 886 11](#)
33. Suess, K. A., Kriek, M., [Price, S. H.](#), & Barro, G., “Half-mass radii of quiescent and star-forming galaxies evolve slowly from  $0 < z < 2.5$ : implications for galaxy assembly histories,” 2019, [ApJL 885 L22](#)
32. Shimizu, T. T., Davies, R. I., Lutz, D., et al., including [SHP](#), “The multiphase gas structure and kinematics in the circumnuclear region of NGC 5728,” 2019, [MNRAS 490 5860](#)
31. Fornasini, F. M., Kriek, M., Sanders, R. L., et al., including [SHP](#), “The MOSDEF Survey: The Metallicity Dependence of X-ray Binary Populations at  $z \sim 2$ ,” 2019, [ApJ 885 65](#)
30. Shapley, A. E., Sanders, R. L., Shao, P., et al., including [SHP](#), “The MOSDEF Survey: Sulfur Emission-line Ratios Provide New Insights into Evolving Interstellar Medium Conditions at High Redshift,” 2019, [ApJL 881 L35](#)
29. Übler, H., Genzel, R., Wisnioski, E., et al., including [SHP](#), “The Evolution and Origin of Ionized Gas Velocity Dispersion from  $z \sim 2.6$  to  $z \sim 0.6$  with KMOS<sup>3D</sup>,” 2019, [ApJ 880 48](#)
28. Suess, K. A., Kriek, M., [Price, S. H.](#), & Barro, G., “Half-mass Radii for  $\sim 7000$  Galaxies at  $1.0 \leq z \leq 2.5$ : Most of the Evolution in the Mass-Size Relation Is Due to Color Gradients,” 2019, [ApJ 877 103](#)
27. Förster Schreiber, N. M., Übler, H., Davies, R. L., et al., including [SHP](#), “The KMOS<sup>3D</sup> Survey: Demographics and Properties of Galactic Outflows at  $z = 0.6 - 2.7$ ,” 2019, [ApJ 875 21](#)
26. Wilson, T. J., Shapley, A. E., Sanders, R. L., et al., including [SHP](#), “The MOSDEF Survey: No Significant Enhancement in Star Formation or Deficit in Metallicity in Merging Galaxy Pairs at  $1.5 \lesssim z \lesssim 3.5$ ,” 2019, [ApJ 874 18](#)
25. Davies, R. L., Förster Schreiber, N. M., Übler, H., et al., including [SHP](#), “Kiloparsec Scale Properties of Star-Formation Driven Outflows at  $z \sim 2.3$  in the SINS/zC-SINF AO Survey,” 2019, [ApJ 873 122](#)
24. Freeman, W. R., Siana, B., Kriek, M., et al., including [SHP](#), “The MOSDEF Survey: Broad Emission Lines at  $z = 1.4-3.8$ ,” 2019, [ApJ 873 102](#)
23. Nelson, E. J., Tadaki, K.-I., Tacconi, L. J., et al., including [SHP](#), “Millimeter Mapping at  $z \sim 1$ : Dust-obscured Bulge Building and Disk Growth,” 2019, [ApJ 870 130](#)
22. Reddy, N. A., Shapley, A. E., Sanders, R. L., et al., including [SHP](#), “The MOSDEF Survey: Significant Evolution in the Rest-frame Optical Emission Line Equivalent Widths of Star-forming Galaxies at  $z = 1.4-3.8$ ,” 2018, [ApJ 869 92](#)
21. Zick, T. O., Kriek, M., Shapley, A. E., et al., including [SHP](#), “The MOSDEF Survey: Stellar Continuum Spectra and Star Formation Histories of Active, Transitional, and Quiescent Galaxies at  $1.4 < z < 2.6$ ,” 2018, [ApJL 867 L16](#)
20. Azadi, M., Coil, A., Aird, J., et al., including [SHP](#), “The MOSDEF Survey: The Nature of Mid-infrared Excess Galaxies and a Comparison of IR and UV Star Formation Tracers at  $z \sim 2$ ,” 2018, [ApJ 866 63](#)
19. Sanders, R. L., Shapley, A. E., Kriek, M., et al., including [SHP](#), “The MOSDEF Survey: A Stellar Mass-SFR-Metallicity Relation Exists at  $z \sim 2.3$ ,” 2018, [ApJ 858 99](#)

18. Shivaiei, I., Reddy, N. A., Siana, B., et al., including **SHP**, “*The MOSDEF Survey: Direct Observational Constraints on the Ionizing Photon Production Efficiency,  $\xi_{\text{ion}}$ , at  $z \sim 2$* ,” 2018, [ApJ 855 42](#)
17. Übler, H., Genzel, R., Tacconi, L. J., et al., including **SHP**, “*Ionized and Molecular Gas Kinematics in a  $z = 1.4$  Star-forming Galaxy*,” 2018, [ApJL 854 L24](#)
16. Barro, G., Kriek, M., Pérez-González, P. G., et al., including **SHP**, “*Spatially Resolved Kinematics in the Central 1 kpc of a Compact Star-forming Galaxy at  $z \sim 2.3$  from ALMA CO Observations*,” 2017, [ApJL 851 L40](#)
15. Leung, G. C. K., Coil, A. L., Azadi, M., et al., including **SHP**, “*The MOSDEF Survey: The Prevalence and Properties of Galaxy-wide AGN-driven Outflows at  $z \sim 2$* ,” 2017, [ApJ 849 48](#)
14. Shapley, A. E., Sanders, R. L., Reddy, N. A., et al., including **SHP**, “*The MOSDEF Survey: First Measurement of Nebular Oxygen Abundance at  $z > 4$* ,” 2017, [ApJL 846 L30](#)
13. Shivaiei, I., Reddy, N. A., Shapley, A. E., et al., including **SHP**, “*The MOSDEF Survey: Metallicity dependence of the PAH emission at High Redshift and Implications for 24 micron-inferred IR luminosities and star formation rates at  $z \sim 2$* ,” 2017, [ApJ 837 157](#)
12. Azadi, M., Coil, A. L., Aird, J., et al., including **SHP**, “*The MOSDEF survey: AGN multi-wavelength identification, selection biases and host galaxy properties*,” 2017, [ApJ 835 27](#)
11. Momcheva, I. G., Brammer, G. B., van Dokkum, P. G., et al., including **SHP**, “*The 3D-HST Survey: Hubble Space Telescope WFC3/G141 Grism Spectra, Redshifts, and Emission Line Measurements for  $\sim 100,000$  Galaxies*,” 2016, [ApJS 225 27](#)
10. Sanders, R. L., Shapley, A. E., Kriek, M., et al., including **SHP**, “*The MOSDEF Survey: Detection of  $[\text{OIII}]\lambda 4363$  and the Direct-method Oxygen Abundance of a Star-forming Galaxy at  $z = 3.08$* ,” 2016, [ApJL 825 L23](#)
9. Shivaiei, I., Kriek, M., Reddy, N. A., et al., including **SHP**, “*The MOSDEF Survey: The Strong Agreement between  $H\alpha$  and UV-to-FIR Star Formation Rates for  $z \sim 2$  Star-forming Galaxies*,” 2016, [ApJL 820 L23](#)
8. Sanders, R. L., Shapley, A. E., Kriek, M., et al., including **SHP**, “*The MOSDEF Survey: Electron Density and Ionization Parameter at  $z \sim 2.3$* ,” 2016, [ApJ 816 23](#)
7. Shivaiei, I., Reddy, N. A., Shapley, A. E., et al., including **SHP**, “*The MOSDEF Survey: Dissecting the Star Formation Rate versus Stellar Mass Relation Using  $H\alpha$  and  $H\beta$  Emission Lines at  $z \sim 2$* ,” 2015, [ApJ 815 98](#)
6. Kriek, M., Shapley, A. E., Reddy, N. A., et al., including **SHP**, “*The MOSFIRE Deep Evolution Field (MOSDEF) Survey: Rest-frame Optical Spectroscopy for  $\sim 1500$  H-selected Galaxies at  $1.37 < z < 3.8$* ,” 2015, [ApJS 218 15](#)
5. Reddy, N. A., Kriek, M., Shapley, A. E., et al., including **SHP**, “*The MOSDEF Survey: Measurements of Balmer Decrements and the Dust Attenuation Curve at Redshifts  $z \sim 1.4$ -2.6*,” 2015, [ApJ 806 259](#)
4. Shapley, A. E., Reddy, N. A., Kriek, M., et al., including **SHP**, “*The MOSDEF Survey: Excitation Properties of  $z \sim 2.3$  Star-forming Galaxies*,” 2015, [ApJ 801 88](#)
3. Coil, A. L., Aird, J., Reddy, N., et al., including **SHP**, “*The MOSDEF Survey: Optical Active Galactic Nucleus Diagnostics at  $z \sim 2.3$* ,” 2015, [ApJ 801 35](#)
2. Sanders, R. L., Shapley, A. E., Kriek, M., et al., including **SHP**, “*The MOSDEF Survey: Mass, Metallicity, and Star-formation Rate at  $z \sim 2.3$* ,” 2015, [ApJ 799 138](#)
1. Skelton, R. E., Whitaker, K. E., Momcheva, I. G., et al., including **SHP**, “*3D-HST WFC3-selected Photometric Catalogs in the Five CANDELS/3D-HST Fields: Photometry, Photometric Redshifts, and Stellar Masses*,” 2014, [ApJS 214 24](#)

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#### Grants

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2016	AAS International Travel Grant, Munich Joint Conference
2015	AAS International Travel Grant, IAU Symposium 319

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