Department of Physics and Astronomy and PITT PACC, Allen Hall 302 sedona.price@pitt.edu
University of Pittsburgh https://sedonaprice.github.io
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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^{3D}, *MPG-IRAM Observatory Program IRAM/NOEMA survey (PIs: R. Genzel, R. Neri, L.J. Tacconi)*
KMOS^{3D}, *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 zspec =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∼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∼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, NIRCam, Cycle 2, #4111, "Medium bands, Mega Science: spatially-resolved R∼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/NIRCam, 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, NIRCam/NIRSpec, Cycle 1 Treasury, #2561, "UNCOVER: Ultra-deep NIRCam 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∼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", ∼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∼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∼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∼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
Docs: 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, Pittsburgh, PA, USA, 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

†*Denotes student-led paper*

14. †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
13. †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,"* 2024, arXiv:2411.07312
12. **Price, S. H.**, Bezanson, R., Labbe, I., et al., *"The UNCOVER Survey: First Release of Ultradeep JWST/NIRSpec PRISM spectra for ~ 700 galaxies from z~ 0.3-13 in Abell 2744,"* 2024, arXiv:2408.03920
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. †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~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~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~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. 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
114. Kehoe, E., Shapley, A. E., Schreiber, N. M. F., et al., including **SHP**, *"The First Combined Hα and Rest-UV Spectroscopic Probe of Galactic Outflows at High Redshift,"* 2024, ApJ 976 28
113. 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
112. 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
111. 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
110. 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

109. 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_{spec} = 3.97,"* 2024, ApJ 974 145

108. Bezanson, R., Labbe, I., Whitaker, K. E., et al., including **SHP**, *"The JWST UNCOVER Treasury Survey: Ultradeep NIRSpec and NIRCam Observations before the Epoch of Reionization,"* 2024, ApJ 974 92

107. 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

106. 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

105. 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

104. 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∼2,"* 2024, arXiv:2410.08387

103. 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

102. 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

101. Siegel, J., Setton, D., Greene, J., et al., including **SHP**, *"UNCOVER: Significant Reddening in Cosmic Noon Quiescent Galaxies,"* 2024, arXiv:2409.11457

100. 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

99. 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

98. 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

97. 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

96. 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

95. 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

94. 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 ∼ 2,"* 2024, ApJ 966 234

93. 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

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

87. Lee, M. M., Steidel, C. C., Brammer, G., et al., including **SHP**, *"High dust content of a quiescent galaxy at z∼2 revealed by deep ALMA observation,"* 2024, MNRAS 527 9529-9547
86. 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≲z≲15,"* 2024, ApJS 270 12
85. 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
84. Übler, H., Förster Schreiber, N. M., van der Wel, A., et al., including **SHP**, *"Galaxy kinematics and mass estimates at z∼1 from ionized gas and stars,"* 2024, MNRAS 527 9206-9235
83. Genzel, R., Jolly, J.-B., Liu, D., et al., including **SHP**, *"Evidence for Large-scale, Rapid Gas Inflows in z∼2 Star-forming Disks,"* 2023, ApJ 957 48
82. 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
81. 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
80. 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
79. Nelson, E. J., Brammer, G., Gimenez-Arteaga, C., et al., including **SHP**, *"FRESCO: An extended, massive, rapidly rotating galaxy at z=5.3,"* 2023, arXiv:2310.06887
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77. 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
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