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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, *JWST Cycle 1 Treasury program; Survey Manager (PIs: I. Labbé, R. Bezanson)*
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

Pitt Center for Research Computing, 2024, “Characterizing Morphologies of Distant ($z > 1$) Galaxies with JWST imaging”, 228900 hrs (*PI: S.H. Price*)

Approved Proposals as Co-I

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*)
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, NIRC2, 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/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 $z \sim 4-5$ ”, 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”, ~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 & 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.

<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 J. Gibson, et al., to be subm.; Price et al. in prep. (accompanying public release)*

astropy/visualization: *Generalized scripts to generate RGB images, extending current functionality. Pull request review ongoing. <https://github.com/astropy/astropy/pull/15081>*

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>

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, Pitt graduate student, 2023–*)
 Morgana Iacocca (*co-supervised, Pitt 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	Special seminar, Cornell University, Ithaca, NY, USA
2023 May	Talk, Impossible Problems: Astronomy and Statistics, 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	Scientific Advisory Board talk, MPE, Garching, Germany
2017 Jun	Invited 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	Invited seminar, CfA/Harvard, Cambridge, MA, USA
2016 Nov	Invited 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 Mar	Talk, Aspen Center for Physics, <i>The Physics and Impact of Astrophysical Dust: from Star Formation Through Cosmology</i> , Aspen, CO, USA
2023 Mar	Talk, KICC, <i>Early results from the James Webb Space Telescope</i> , Cambridge, UK
2022 Sep	Talk, KICC, <i>Epoch of Galaxy Quenching 2022</i> , Cambridge, UK
2022 Jul	*Invited participant, Ringberg, <i>In Situ View of Galaxy Formation 2</i> , Ringberg, Germany
2022 Jun	Talk, <i>LEGA-C Collaboration workshop</i> , Bruges, Belgium
2021 Sep	Talk, University of Oxford, <i>Spatially Resolved Spectroscopy with Extremely Large Telescopes</i> ,

	virtual
2020 Mar	*Invited talk, IAU Symposium 359, <i>GALFEED</i> , Bento Gonçalves, RS, Brazil
2019 Oct	*Invited participant, Lorentz Center, <i>Revolutionary Spectroscopy of Today as a Springboard to Webb</i> , Leiden, the Netherlands
2019 Sep	*Invited talk, KIAA, <i>Second Forum on Gas in Galaxies</i> , Beijing, China
2019 Mar	*Invited talk, Universität Heidelberg, <i>MOSAIC 2019 Science meeting</i> , Heidelberg, Germany
2018 Dec	Talk, ESO Workshop, <i>KMOS@5</i> , Garching, Germany
2018 Aug	Talk, Santa Cruz Galaxy Workshop, Santa Cruz, CA, USA
2017 Jun	Talk, <i>Advances in Galaxy Evolution</i> , 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, Munich Joint Conference, <i>Discs in Galaxies</i> , Garching, Germany
2016 Apr	Poster, STScI Spring Symposium, <i>What Shapes Galaxies?</i> , Baltimore, MD, USA
2015 Aug	Talk, IAU Symposium 319, <i>Galaxies at High Redshift and Their Evolution over Cosmic Time</i> , Honolulu, HI, USA
2013 May	Talk, Lorentz Center, <i>Galaxy formation from $z=5$ to $z=0$</i> , Leiden, the Netherlands

Service

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

Outreach

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

[†]Denotes student-led paper

First and Second Author Publications

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 $z \sim 1-2$ 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

101. 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](#)
100. 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](#)
99. 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](#)
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, [arXiv:2404.12432](#)
97. 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](#)
96. 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](#)
95. 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](#)
94. 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](#)
93. 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](#)
92. 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](#)
91. 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](#)
90. 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, [arXiv:2402.05664](#)
89. 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](#)
88. 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](#)
87. 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](#)
86. 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](#)

85. Chemerynska, I., Atek, H., Furtak, L. J., et al., including **SHP**, “*JWST UNCOVER: The Overabundance of Ultraviolet-luminous Galaxies at $z > 9$* ,” 2023, [arXiv:2312.05030](#)
84. 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](#)
83. 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](#)
82. 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](#)
81. 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](#)
80. 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](#)
79. 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](#)
78. 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](#)
77. Fujimoto, S., Bezanson, R., Labbe, I., et al., including **SHP**, “*DUALZ – Deep UNCOVER-ALMA Legacy High-Z Survey*,” 2023, [arXiv:2309.07834](#)
76. Fujimoto, S., Wang, B., Weaver, J., 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*,” 2023, [arXiv:2308.11609](#)
75. 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](#)
74. 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](#)
73. 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](#)
72. 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](#)
71. 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*,” 2023, [arXiv:2306.07320](#)
70. 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](#)
69. 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](#)
68. 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](#)
67. 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](#)
66. 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](#)
65. 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*,” 2022, [arXiv:2212.04026](#)
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](#)

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Grants

2016	AAS International Travel Grant, Munich Joint Conference
2015	AAS International Travel Grant, IAU Symposium 319
2012	NSF Graduate Research Fellowship, UC Berkeley

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