Department of Physics and Astronomy and PITT PACC, Allen Hall 302 University of Pittsburgh Pittsburgh, PA, USA sedona.price@pitt.edu https://sedonaprice.github.io http://orcid.org/0000-0002-0108-4176

Research Interests

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

Education

| 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 |
| M.A. Astrophysics, University of California, Berkeley |
| 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 Observing Proposals as Co-I

- 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 (*Pls: 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 NOEMA^3D: 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)

Presentations

Colloquia & Seminars:

| Conferences & | & Workshops: |
|---------------|---|
| 2023 Mar | Talk, KICC, Early results from the James Webb Space Telescope, Cambridge, UK |
| 2022 Sep | Talk, KICC, Epoch of Galaxy Quenching 2022, Cambridge, UK |
| 2022 Jul | *Invited participant, Ringberg, In Situ View of Galaxy Formation 2, Ringberg, Germany |
| 2022 Jun | Talk, LEGA-C Collaboration workshop, Bruges, Belgium |
| 2021 Sep | Talk, University of Oxford, Spatially Resolved Spectroscopy with Extremely Large Telescopes, virtual |
| 2020 Mar | *Invited talk, IAU Symposium 359, GALFEED, Bento Gonçalves, RS, Brazil |
| 2019 Oct | *Invited participant, Lorentz Center, Revolutionary Spectroscopy of Today as a Springboard to Webb, Leiden, the Netherlands |
| 2019 Sep | *Invited talk, KIAA, Second Forum on Gas in Galaxies, Beijing, China |
| 2019 Mar | *Invited talk, Universität Heidelberg, MOSAIC 2019 Science meeting, Heidelberg, Germany |
| 2018 Dec | Talk, ESO Workshop, KMOS@5, 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, Munich Joint Conference, Discs in Galaxies, Garching, Germany |
| 2016 Apr | Poster, STScI Spring Symposium, What Shapes Galaxies?, Baltimore, MD, USA |
| 2015 Aug | Talk, IAU Symposium 319, Galaxies at High Redshift and Their Evolution over Cosmic Time, Honololu, HI, USA |
| 2013 May | Talk, Lorentz Center, Galaxy formation from $z=5$ to $z=0$, Leiden, the Netherlands |
| Teaching | |
| 2023 May | 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 |

Service

| | Referee, The Astrophysical Journal (ApJ), Nature |
|--------------|---|
| 2023-present | 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 |

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)

Outreach

| 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 and Second Author Publications

- 11. <u>Price, S. H.</u>, 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., <u>Price, S. H.</u>, 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. <u>Price, S. H.</u>, 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. <u>Price, S. H.</u>, 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., <u>Price, S. H.</u>, 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 $1.4 \le z \le 3.8$," 2020, ApJ 894 91
- 5. Kriek, M., Price, S. H., Conroy, C., et al., "Stellar Metallicities and Elemental Abundance Ratios of z ~ 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 $1.4 \le z \le 2.6$," 2016, ApJ 819 80
- 2. Price, S. H., Kriek, M., Brammer, G. B., et al., "Direct Measurements of Dust Attenuation in z ~ 1.5 Star-Forming Galaxies from 3D-HST: Implications for Dust Geometry and Star Formation Rates," 2014, ApJ 788 86
- 1. Bergé, J., <u>Price, S.</u>, Amara, A., & Rhodes, J., "On point spread function modelling: towards optimal interpolation," 2012, MNRAS 419 2356

Contributing Author Publications

- 92. Genzel, R., Jolly, J.-B., Liu, D., et al., including <u>SHP</u>, "Evidence for Large-scale, Rapid Gas Inflows in z~2 Star-forming Disks," 2023, ApJ 957 48
- 91. Martorano, M., van der Wel, A., Bell, E. F., et al., including <u>SHP</u>, "Rest-frame Near-infrared Radial Light Profiles up to z = 3 from JWST/NIRCam: Wavelength Dependence of the Sérsic Index," 2023, ApJ 957 46
- 90. 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
- 89. 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
- 88. Wang, B., Leja, J., Atek, H., et al., including <u>SHP</u>, "Quantifying the Effects of Known Unknowns on Inferred High-redshift Galaxy Properties: Burstiness, the IMF, and Nebular Physics," 2023, arXiv:2310.06781
- 87. Wang, B., Leja, J., Labbé, I., et al., including SHP, "The UNCOVER Survey: A First-Look HST+JWST Catalog of Galaxy Redshifts and Stellar Populations Properties Spanning 0.2≲z≤15," 2023, arXiv:2310.01276
- 86. Atek, H., Chemerynska, I., Wang, B., et al., including <u>SHP</u>, "JWST UNCOVER: discovery of z > 9 galaxy candidates behind the lensing cluster Abell 2744," 2023, MNRAS 524 5486-5496
- 85. 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
- 84. Fujimoto, S., Bezanson, R., Labbe, I., et al., including <u>SHP</u>, "DUALZ Deep UNCOVER-ALMA Legacy High-Z Survey," 2023, arXiv:2309.07834

[†]Denotes student-led paper

- 83. Greene, J. E., Labbe, I., Goulding, A. D., et al., including <u>SHP</u>, "UNCOVER spectroscopy confirms a surprising ubiquity of AGN in red galaxies at z > 5," 2023, arXiv:2309.05714
- 82. Burgasser, A. J., Gerasimov, R., Bezanson, R., et al., including <u>SHP</u>, "UNCOVER: JWST Spectroscopy of Three Cold Brown Dwarfs at Kiloparsec-scale Distances," 2023, arXiv:2308.12107
- 81. Fujimoto, S., Wang, B., Weaver, J., et al., including <u>SHP</u>, "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
- 80. Atek, H., Labbé, I., Furtak, L. J., et al., including **SHP**, "First spectroscopic observations of the galaxies that reionized the Universe," 2023, arXiv:2308.08540
- 79. Furtak, L. J., Labbé, I., Zitrin, A., et al., including <u>SHP</u>, "A supermassive black hole in the early universe growing in the shadows," 2023, arXiv:2308.05735
- 78. Wang, B., Fujimoto, S., Labbe, I., et al., including <u>SHP</u>, "UNCOVER: Illuminating the Early Universe JWST/NIRSpec Confirmation of z > 12 Galaxies," 2023, arXiv:2308.03745
- 77. Furtak, L. J., Zitrin, A., Plat, A., et al., including **SHP**, "JWST UNCOVER: Extremely Red and Compact Object at z_{phot} \simeq 7.6 Triply Imaged by A2744," 2023, ApJ 952 142
- 76. Weldon, A., Reddy, N. A., Topping, M. W., et al., including <u>SHP</u>, "The MOSDEF-LRIS survey: detection of inflowing gas towards three star-forming galaxies at $z \sim 2$," 2023, MNRAS 523 5624-5634
- 75. 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
- 74. Lorenz, B., Kriek, M., Shapley, A. E., et al., including <u>SHP</u>, "An Updated Dust-to-Star Geometry: Dust Attenuation Does Not Depend on Inclination in $1.3 \le z \le 2.6$ Star-forming Galaxies from MOSDEF," 2023, ApJ 951 29
- 73. 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
- 72. 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
- 71. 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
- 70. Weaver, J. R., Cutler, S. E., Pan, R., et al., including <u>SHP</u>, "The UNCOVER Survey: A first-look HST+JWST catalog of 50,000 galaxies near Abell 2744 and beyond," 2023, arXiv:2301.02671
- 69. Liu, D., Förster Schreiber, N. M., Genzel, R., et al., including <u>SHP</u>, "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
- 68. Sanders, R. L., Shapley, A. E., Jones, T., et al., including <u>SHP</u>, "CO Emission, Molecular Gas, and Metallicity in Main-sequence Star-forming Galaxies at z~2.3," 2023, ApJ 942 24
- 67. Fetherolf, T., Reddy, N. A., Shapley, A. E., et al., including **SHP**, "The MOSDEF survey: probing resolved stellar populations at z~2 Using a new bayesian-defined morphology metric called patchiness," 2023, MNRAS 518 4214-4237
- 66. 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
- 65. 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
- 64. Runco, J. N., Shapley, A. E., Sanders, R. L., et al., including **SHP**, "The MOSDEF survey: towards a complete census of the z~2.3 star-forming galaxy population," 2022, MNRAS 517 4337-4354
- 63. Naidu, R. P., Oesch, P. A., van Dokkum, P., et al., including <u>SHP</u>, "Two Remarkably Luminous Galaxy Candidates at z≈10-12 Revealed by JWST," 2022, ApJL 940 L14
- 62. Übler, H., Förster Schreiber, N. M., van der Wel, A., et al., including **SHP**, "Galaxy kinematics and mass estimates at z~1 from ionised gas and stars," 2022, arXiv:2210.03106

- 61. Suess, K. A., Bezanson, R., Nelson, E. J., et al., including <u>SHP</u>, "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~2 star-forming galaxies," 2022, MNRAS 515 841-856
- 59. Herrera-Camus, R., Förster Schreiber, N. M., <u>Price, S. H.</u>, et al., "Kiloparsec view of a typical star-forming galaxy when the Universe was ~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~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~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 Lyα 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 Hα-to-UV SFR ratios on SFR and size at z~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~1.5," 2021, MNRAS 506 1237
- 53. Suess, K. A., Kriek, M., <u>Price, S. H.</u>, & Barro, G., "Dissecting the size-mass and Σ1-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 <u>SHP</u>, "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~2.3 star-forming galaxies," 2021, MNRAS 502 2600
- 50. Johansson, J., Goobar, A., <u>Price, S. H.</u>, 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 <u>SHP</u>, "The KMOS^{3D} Survey: Investigating the Origin of the Elevated Electron Densities in Star-forming Galaxies at $1 \le z \le 3$," 2021, ApJ 909 78
- 48. Belli, S., Contursi, A., Genzel, R., et al., including <u>SHP</u>, "The Diverse Molecular Gas Content of Massive Galaxies Undergoing Quenching at z ~ 1," 2021, ApJL 909 L11
- 47. Chartab, N., Mobasher, B., Shapley, A. E., et al., including <u>SHP</u>, "The MOSDEF Survey: Environmental Dependence of the Gas-phase Metallicity of Galaxies at $1.4 \le z \le 2.6$," 2021, ApJ 908 120
- 46. Horstman, K., Shapley, A. E., Sanders, R. L., et al., including <u>SHP</u>, "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 <u>SHP</u>, "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~2," 2020, MNRAS 498 5009
- 41. Suess, K. A., Kriek, M., <u>Price, S. H.</u>, & Barro, G., "Color Gradients along the Quiescent Galaxy Sequence: Clues to Quenching and Structural Growth," 2020, ApJL 899 L26
- 40. Shivaei, 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~2.2 with SINFONI," 2020, ApJ 894 28
- 38. Wilman, D. J., Fossati, M., Mendel, J. T., et al., including <u>SHP</u>, "The Regulation of Galaxy Growth along the Size-Mass Relation by Star Formation, as Traced by H α in KMOS^{3D} 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 <u>SHP</u>, "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 <u>SHP</u>, "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^{3D} Survey: data release and final survey paper," 2019, ApJ 886 124
- 34. Leung, G. C. K., Coil, A. L., Aird, J., et al., including <u>SHP</u>, "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., <u>Price, S. H.</u>, & 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 <u>SHP</u>, "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 <u>SHP</u>, "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^{3D}," 2019, ApJ 880 48
- 28. Suess, K. A., Kriek, M., <u>Price, S. H.</u>, & Barro, G., "Half-mass Radii for \sim 7000 Galaxies at $1.0 \le z \le 2.5$: 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 <u>SHP</u>, "The KMOS^{3D} 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 <u>SHP</u>, "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~2.3 in the SINS/zC-SINF AO Survey," 2019, ApJ 873 122
- 24. Freeman, W. R., Siana, B., Kriek, M., et al., including <u>SHP</u>, "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~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 <u>SHP</u>, "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 ~ 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. Shivaei, I., Reddy, N. A., Siana, B., et al., including <u>SHP</u>, "The MOSDEF Survey: Direct Observational Constraints on the Ionizing Photon Production Efficiency, ξ_{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~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 <u>SHP</u>, "The MOSDEF Survey: First Measurement of Nebular Oxygen Abundance at z>4," 2017, ApJL 846 L30
- 13. Shivaei, I., Reddy, N. A., Shapley, A. E., et al., including <u>SHP</u>, "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~2," 2017, ApJ 837 157
- 12. Azadi, M., Coil, A. L., Aird, J., et al., including <u>SHP</u>, "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 <u>SHP</u>, "The 3D-HST Survey: Hubble Space Telescope WFC3/G141 Grism Spectra, Redshifts, and Emission Line Measurements for ~100,000 Galaxies," 2016, ApJS 225 27
- 10. Sanders, R. L., Shapley, A. E., Kriek, M., et al., including <u>SHP</u>, "The MOSDEF Survey: Detection of [OIII]λ4363 and the Direct-method Oxygen Abundance of a Star-forming Galaxy at z = 3.08," 2016, ApJL 825 L23
- 9. Shivaei, I., Kriek, M., Reddy, N. A., et al., including <u>SHP</u>, "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 ~ 2.3," 2016, ApJ 816 23
- 7. Shivaei, I., Reddy, N. A., Shapley, A. E., et al., including <u>SHP</u>, "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 <u>SHP</u>, "The MOSFIRE Deep Evolution Field (MOSDEF) Survey: Rest-frame Optical Spectroscopy for ~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 ~ 1.4-2.6," 2015, ApJ 806 259
- 4. Shapley, A. E., Reddy, N. A., Kriek, M., et al., including <u>SHP</u>, "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 <u>SHP</u>, "The MOSDEF Survey: Optical Active Galactic Nucleus Diagnostics at z ~ 2.3," 2015, ApJ 801 35
- 2. Sanders, R. L., Shapley, A. E., Kriek, M., et al., including <u>SHP</u>, "The MOSDEF Survey: Mass, Metallicity, and Star-formation Rate at $z \sim 2.3$," 2015, ApJ 799 138
- Skelton, R. E., Whitaker, K. E., Momcheva, I. G., et al., including <u>SHP</u>, "3D-HST WFC3-selected Photometric Catalogs in the Five CANDELS/3D-HST Fields: Photometry, Photometric Redshifts, and Stellar Masses," 2014, ApJS 214 24

ADS Library of Full Publications: https://ui.adsabs.harvard.edu/public-libraries/UtKLcfs4RXOukkQOAYHgZw

Grants

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

NSF Graduate Research Fellowship, UC Berkeley