Sedona Price

Department of Physics and Astronomy and PITT PACC, Allen Hall 308
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 structure, 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 Observing Proposals as Co-I

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)*

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)*

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

Conferences & Workshops:

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

Seminars:

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

Teaching

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)*
2013-2016	Mentoring coordinator, *co-head of grad student mentoring program*, UC Berkeley
2014-2015	Co-supervisor, *undergraduate student Meng Luo*, UC Berkeley
2013-2015	Mentor, *mentoring junior graduate student*, UC Berkeley
2012-2015	Graduate Student Representative, *Astronomy Department*, UC Berkeley

Outreach

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

1. **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
2. 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,"* 2022, arXiv:2209.12199
3. **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
4. 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
5. **Price, S. H.**, Kriek, M., Barro, G., et al., *"The MOSDEF Survey: Kinematic and Structural Evolution of Star-forming Galaxies at 1.4 ≤ z ≤ 3.8,"* 2020, ApJ, 894, 91
6. 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
7. **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
8. **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 ≤ z ≤ 2.6,"* 2016, ApJ, 819, 80
9. **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
10. Bergé, J., **Price, S.**, Amara, A., & Rhodes, J., *"On point spread function modelling: towards optimal interpolation,"* 2012, MNRAS, 419, 2356

Contributing Author Publications

1. 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
2. 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

3. 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
4. Herrera-Camus, R., Förster Schreiber, N. M., **Price, S. H.**, 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
5. Nelson, E. J., Suess, K. A., Bezanson, R., et al., including **SHP**, *"JWST reveals a population of ultra-red, flattened disk galaxies at 2<z<6 previously missed by HST,"* 2022, arXiv:2208.01630
6. 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,"* 2022, arXiv:2208.04972
7. Naidu, R. P., Oesch, P. A., van Dokkum, P., et al., including **SHP**, *"Two Remarkably Luminous Galaxy Candidates at $z \approx 11-13$ Revealed by JWST,"* 2022, arXiv:2207.09434
8. 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
9. 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, arXiv:2206.14812
10. Runco, J. N., Shapley, A. E., Kriek, M., et al., including **SHP**, *"The MOSDEF Survey: A Remarkable z=1.89 Merger,"* 2022, arXiv:2206.05293
11. 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∼2.3,"* 2022, arXiv:2204.06937
12. 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
13. 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
14. 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
15. 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
16. Suess, K. A., Kriek, M., **Price, S. H.**, & 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
17. 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∼3.3,"* 2021, ApJ, 914, 19
18. 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
19. Johansson, J., Goobar, A., **Price, S. H.**, et al., *"Spectroscopy of the first resolved strongly lensed Type Ia supernova iPTF16geu,"* 2021, MNRAS, 502, 510
20. Davies, R. L., Förster Schreiber, N. M., Genzel, R., et al., including **SHP**, *"The KMOS^{3D} Survey: Investigating the Origin of the Elevated Electron Densities in Star-forming Galaxies at $1 \lesssim z \lesssim 3$,"* 2021, ApJ, 909, 78
21. 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
22. 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
23. 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

24. 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

25. 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

26. 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

27. 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

28. 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

29. 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

30. 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

31. 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 Hα in KMOS^{3D} Galaxies at $0.7 \lesssim z \lesssim 2.7$,"* 2020, ApJ, 892, 1

32. 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

33. 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

34. 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

35. 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

36. 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

37. 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

38. 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

39. 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

40. 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

41. Suess, K. A., Kriek, M., **Price, S. H.**, & Barro, G., *"Half-mass Radii for ∼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

42. Förster Schreiber, N. M., Übler, H., Davies, R. L., et al., including **SHP**, *"The KMOS^{3D} Survey: Demographics and Properties of Galactic Outflows at z = 0.6 – 2.7,"* 2019, ApJ, 875, 21

43. 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

44. 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

45. 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

46. 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

47. 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

48. 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

49. 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

50. Sanders, R. L., Shapley, A. E., Kriek, M., et al., including **SHP**, *"The MOSDEF Survey: A Stellar Mass-SFR-Metallicity Relation Exists at z ∼ 2.3,"* 2018, ApJ, 858, 99

51. Shivaei, I., Reddy, N. A., Siana, B., et al., including **SHP**, *"The MOSDEF Survey: Direct Observational Constraints on the Ionizing Photon Production Efficiency, $\xi_{\rm ion}$, at z ∼ 2,"* 2018, ApJ, 855, 42

52. 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

53. 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

54. 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 ∼ 2,"* 2017, ApJ, 849, 48

55. 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

56. Shivaei, 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∼2,"* 2017, ApJ, 837, 157

57. 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

58. 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 ∼100,000 Galaxies,"* 2016, ApJS, 225, 27

59. Sanders, R. L., Shapley, A. E., Kriek, M., et al., including **SHP**, *"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

60. Shivaei, I., Kriek, M., Reddy, N. A., et al., including **SHP**, *"The MOSDEF Survey: The Strong Agreement between Hα and UV-to-FIR Star Formation Rates for z ∼ 2 Star-forming Galaxies,"* 2016, ApJL, 820, L23

61. 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

62. Shivaei, I., Reddy, N. A., Shapley, A. E., et al., including **SHP**, *"The MOSDEF Survey: Dissecting the Star Formation Rate versus Stellar Mass Relation Using Hα and Hβ Emission Lines at z ∼ 2,"* 2015, ApJ, 815, 98

63. Kriek, M., Shapley, A. E., Reddy, N. A., et al., including **SHP**, *"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

64. 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

65. 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

66. 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

67. 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

68. 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

Grants

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

(Last updated 21 Oct 2022)