

## Sedona Price

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### Research Interests

Galaxy evolution, high redshift galaxies, gas and stellar kinematics

### Education

Exp. 2017	<b>Ph.D. Astrophysics</b> , <i>University of California, Berkeley</i> Adviser: Mariska Kriek
2013	<b>M.A. Astrophysics</b> , <i>University of California, Berkeley</i>
2011	<b>B.S. Physics</b> , <i>with honors, California Institute of Technology</i>

### Research Positions

2011-present	Graduate student, UC Berkeley
2008-2010	Summer Undergraduate Research Fellow, Caltech

### Fellowships & Awards

2012-2015	NSF Graduate Research Fellowship, UC Berkeley
2014	Outstanding Graduate Student Instructor Award, UC Berkeley
2009	Margie Lauritsen Leighton Prize, Caltech

### Observing Experience

W. M. Keck Observatory, Keck I 10 m telescope, MOSFIRE (8.5 nights)

### Teaching

2013	Astro C10, <i>Co-head GSI, Introductory course for non-majors</i> , UC Berkeley
2012	Astro 7b, <i>Introductory course for majors</i> , UC Berkeley
2011	Astro C10, <i>Introductory course for non-majors</i> , UC Berkeley
2010, 2011	Physics 6, <i>Sophomore physics major lab</i> , Caltech

### Service

2013-2016	Mentor master, <i>co-head of graduate student mentoring program</i> , UC Berkeley
2014-2015	Co-supervisor, <i>undergraduate student Meng Luo</i> , UC Berkeley
2013-2015	Mentor, <i>mentoring younger graduate student</i> , UC Berkeley
2012-2015	Graduate student representative, <i>Astronomy Department</i> , UC Berkeley

### Outreach

2014-present	Mentoring group, <i>Society of Women in Physical Sciences</i> , UC Berkeley
2016 May	Solar Viewing, <i>Ecology Center Festival</i> , UC Berkeley
2012-2016	Annual Cal Day, <i>Astronomy Department exposition</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	Expanding Your Horizons workshop, <i>for middle school girls</i> , UC Berkeley

### Presentations

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
2015 Nov	Lunch talk, UC Berkeley, CA
2015 Aug	Talk, IAU Symposium 319, <i>Galaxies at High Redshift and Their Evolution over Cosmic Time</i> , Honolulu, HI
2013 May	Talk, Lorenz Center Workshop, <i>Galaxies at High Redshift and Their Evolution over Cosmic Time</i> , Leiden, NL

### First Author Publications

2. **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](#)
1. **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](#)

### Contributing Author Publications

12. Sanders, R. L., Shapley, A. E., Kriek, M. et al. including **SHP**, “*The MOSDEF Survey: Detection of [OIII] $\lambda$ 4363 and the Direct-method Oxygen Abundance of a Star-forming Galaxy at  $z = 3.08$* ,” 2016, [ApJ, 825, 23](#)
11. Shivaee, I., Kriek, M., Reddy, N. A. et al. including **SHP**, “*The MOSDEF Survey: The Strong Agreement between  $H\alpha$  and UV-to-FIR Star Formation Rates for  $z \sim 2$  Star-forming Galaxies*,” 2016, [ApJ, 820, 23](#)
10. Sanders, R. L., Shapley, A. E., Kriek, M. et al. including **SHP**, “*The MOSDEF Survey: Electron Density and Ionization Parameter at  $z \sim 2.3$* ,” 2016, [ApJ, 816, 23](#)
9. Shivaee, I., Reddy, N. A., Shapley, A. E. et al. including **SHP**, “*The MOSDEF Survey: Dissecting the Star Formation Rate versus Stellar Mass Relation Using  $H\alpha$  and  $H\beta$  Emission Lines at  $z \sim 2$* ,” 2015, [ApJ, 815, 98](#)
8. Momcheva, I. G., Brammer, G. B., van Dokkum, P. G. et al. including **SHP**, “*The 3D-HST Survey: Hubble Space Telescope WFC3/G141 grism spectra, redshifts, and emission line measurements for  $\sim 100,000$  galaxies*,” 2015, [ApJS, accepted \(arXiv/astro-ph:1510.02106\)](#)
7. Kriek, M., Shapley, A. E., Reddy, N. A. et al. including **SHP**, “*The MOSFIRE Deep Evolution Field (MOSDEF) Survey: Rest-frame Optical Spectroscopy for  $\sim 1500$  H-selected Galaxies at  $1.37 < z < 3.8$* ,” 2015, [ApJS, 218, 15](#)
6. 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](#)
5. 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](#)
4. 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](#)
3. 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](#)
2. 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](#)
1. Bergé, J., **Price, S.**, Amara, A. et al., “*On point spread function modelling: towards optimal interpolation*,” 2012, [MNRAS, 419, 2356](#)

### Grants

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