First/second-author publications (†: Mentee)

1. **Shajib, A. J.**, et al. Strong Lensing by Galaxies. Invited review article for ISSI workshop on strong lensing, to be submitted to Space Science Reviews. arXiv:2210.10790, 2022.
2. **Shajib, A. J.**, et al. LensingETC: a tool to optimize multi-filter imaging campaigns of galaxy-scale strong lensing systems. ApJ, 938, 141, 2022.
3. **Shajib, A. J.**, et al. TDCOSMO. IX. Systematic comparison between lens modelling software programs: time delay prediction for WGD 2038−4008. A&A, 667, A123, 2022.
4. Birrer, S., **Shajib, A. J.**, et al. lenstronomy II: A gravitational lensing software ecosystem. Journal of Open Source Software, 6(62), 3283, 2021.
5. **Shajib, A. J.**, et al. Dark matter haloes of massive elliptical galaxies at z $\sim$ 0.2 are well described by the Navarro–Frenk–White profile. MNRAS, 503, 2, 2380-2405, 2021.
6. **Shajib, A. J.**, Molina, E.†, et al. High-resolution imaging follow-up of doubly imaged quasars. MNRAS, 503, 2, 1557-1567, 2021.
7. Birrer, S., **Shajib, A. J.**, et al. TDCOSMO IV: Hierarchical time-delay cosmography – joint inference of the Hubble constant and galaxy density profiles. A&A 643, A165, 2020.
8. **Shajib, A. J.**, et al. STRIDES: A 3.9 per cent measurement of the Hubble constant from the strong lens system DES J0408–5354. MNRAS, 494, 6072–6102, 2020.
9. **Shajib, A. J.** Unified lensing and kinematic analysis for *any* elliptical mass profile. MNRAS, 488, 1387–1400, 2019.
10. **Shajib, A. J.**, et al. Is every strong lens model unhappy in its own way? Uniform modelling of a sample of 13 quadruply+ imaged quasars. MNRAS, 483, 5649–5671, 2019.
11. **Shajib, A. J.**, Treu, T., and Agnello, A. Improving time-delay cosmography with spatially resolved kinematics. MNRAS, 473, 210–226, 2018.
12. **Shajib, A. J.** and Wright, E. L. Measurement of the integrated Sachs-Wolfe effect using the AllWISE data release. ApJ, 827:116 (9pp), 2016.

***n*th-author publications**

1. Pierel, J. D. R., et al. LensWatch: I. Resolved HST Observations and Constraints on the Strongly-Lensed Type Ia Supernova 2022qmx ("SN Zwicky"). arXiv:2211.03772, 2022.
2. Zoborowski, E., et al. Identification of Galaxy-Galaxy Strong Lens Candidates in the DECam Local Volume Exploration Survey Using Machine Learning. arXiv:2210.10802, 2022.
3. Birrer, S., Millon, M., Sluse, D., **Shajib, A.,** et al. Time-Delay Cosmography: Measuring the Hubble Constant and other cosmological parameters with strong gravitational lensing. arXiv:2210.10833, 2022.
4. Mozumdar, P., et al. TDCOSMO. XII. New lensing galaxy redshift and velocity dispersion measurements from Keck spectroscopy of eight lensed quasar systems. arXiv:2209.14320, 2022.

5. Ertl, S., et al. TDCOSMO XI. Automated Modeling of 9 Strongly Lensed Quasars and Comparison Between Lens Modeling Software. arXiv:2209.03094, 2022.

6. Lemon, C., et al. Gravitationally lensed quasars in Gaia – IV. 150 new lenses, quasar pairs, and projected quasars. arXiv:2206.07714, 2022.

7. Schmidt, T., Treu, T., Birrer, S., **Shajib, A. J.**, et al. STRIDES: Automated uniform models for 30 quadruply imaged quasars. arXiv:2206.04696, 2022.

8. Morgan, R., et al. DeepZipper II: Searching for Lensed Supernovae in Dark Energy Survey Data with Deep Learning. arXiv:2204.05924, 2022.

9. Akhazhanov, A., et al. Finding quadruply imaged quasars with machine learning. I. Methods. MNRAS, 513, 2, 2407-2421, 2022.

10. Birrer, S., Dhawan. S., and **Shajib, A. J.** The Hubble constant from strongly lensed supernovae with standardizable magnifications. ApJ, 924, 1, 2, 2022.

11. Ding, X., et al. Time Delay Lens Modelling Challenge. MNRAS, 503, 1096-1123, 2021.

12. Buckley-Geer, E. J., et al. STRIDES: Spectroscopic and photometric characterization of the environment and effects of mass along the line of sight to the gravitational lenses DES J0408−5354 and WGD 2038−4008. MNRAS, 498, 3, 3241-3274, 2020.

13. Lemon, C., et al. The STRong lensing Insights into the Dark Energy Survey (STRIDES) 2017/2018 follow-up campaign: Discovery of 10 lensed quasars and 10 quasar pairs. MNRAS, 494, 3, 3491-3511, 2020.

14. Millon, M., et al. TDCOSMO - I. An exploration of systematic uncertainties in the inference of H_0 from time-delay cosmography. A&A, 639, A101, July 2020.

15. Wong, C. K., et al. H0LiCOW – XIII. A 2.4 per cent measurement of H_0 from lensed quasars: 5.3σ tension between early- and late-Universe probes. In press (MNRAS), MNRAS, 498, 1, 1420-1439, 2020.

16. Chen, G. C.-F., et al. A SHARP view of H0LiCOW: H_0 from three time-delay gravitational lens systems with adaptive optics imaging. MNRAS, 490, 1743–1773, 2019.

17. Taubenberger, S., et al. The Hubble Constant determined through an inverse distance ladder including quasar time delays and Type Ia supernovae. A&A, 628, L7, 2019.

18. Rusu, C. E., et al. H0LiCOW XII. Lens mass model of WFI2033-4723 and blind measurement of its time-delay distance and H_0. MNRAS, 498, 1, 2020, 1420-1439, 2020.

19. Sluse, D., et al. H0LiCOW X: Spectroscopic/imaging survey and galaxy-group identification around the strong gravitational lens system WFI2033-4723. MNRAS, 490, 613–633, 2019.

20. Birrer, S., et al. H0LiCOW - IX. Cosmographic analysis of the doubly imaged quasar SDSS 1206+4332 and a new measurement of the Hubble constant. MNRAS, 484, 4726–4753, 2019.

21. Chen, G. C.-F., et al. Constraining the microlensing effect on time delays with new time-delay prediction model in H_0 measurements. MNRAS, 481, 1115–1125, 2018.

22. Williams, P. R., et al. Discovery of three strongly lensed quasars in the Sloan Digital Sky Survey. MNRAS: Letters, 477, L70–L74, 2018.

Non-refereed papers

1. Di Valentino, E., et al. Snowmass2021 - Letter of interest cosmology intertwined IV: The age of the universe and its curvature. Astroparticle Physics, Volume 131, 102607, 2021.

2. Di Valentino, E., et al. Snowmass2021 - Letter of interest cosmology intertwined III: $f\sigma_8$ and S_8. Astroparticle Physics, Volume 131, 102604, 2021.

3. Di Valentino, E., et al. Snowmass2021 - Letter of interest cosmology intertwined II: The Hubble constant tension. Astroparticle Physics, Volume 131, 102605, 2021.

4. Di Valentino, E., et al. Snowmass2021 - Letter of interest cosmology intertwined I: Perspectives for the next decade Astroparticle Physics, Volume 131, 102606, 2021.

5. Beaton, R. L., et al. Measuring the Hubble Constant Near and Far in the Era of ELT's. BAAS 51(3) 456, 2019.

6. Ding, X., Treu, T., **Shajib, A. J.**, et al. Time Delay Lens Modelling Challenge: I. Experimental Design. arXiv:1801.01506, 2018.