

## List of Publications

1. S Soni et al, “Reducing Scattered Light in LIGO’s third Observing run” [arXiv 2007.14876 \(CQG\)](#)
2. S Soni et al , “Discovering features in gravitational-wave data through detector characterization, citizen science and machine learning” (WIP, [DCC](#))
3. D Davis et al, “LIGO Detector Characterization in the Second and Third Observing Runs” [arXiv 2101.11673](#)
4. P Nguyen et al “Environmental noise in Advanced LIGO Detectors” [arXiv 2101.09935](#)
5. A Buikema et al, “Sensitivity and Performance of the Advanced LIGO Detectors in the third observing run” [arXiv 2008.01301](#)
6. E Schwartz et al “Improving the Robustness of the Advanced LIGO detectors to Earthquakes” [arXiv 2007.12847v1](#)

In the following publications, my work made indirect contributions and I am listed as an author

7. R Abbott et al “GWTC-2 : Compact Binary Coalescences Observed by LIGO and Virgo During the First Half of the Third Observing Run” [arXiv:2010.14527](#)
8. R Abbott et al “Population Properties of Compact Objects from the Second LIGO-Virgo Gravitational-Wave Transient Catalog” [arXiv:2010.14533](#)
9. R Abbott et al “Properties and Astrophysical Implications of the 150 M Binary Black Hole Merger GW190521” [arXiv 2009.01190v1](#)
10. R Abbott et al “GW190814: Gravitational waves from the coalescence of a 23 solar mass black hole with a 2.6 solar mass compact object” [arXiv 2006.12611v1](#)
11. B.P. Abbott et al “GW190425: Observation of a compact binary coalescence with total mass  $\sim 3.4$  solar mass” [arXiv 2001.01761v3](#)
12. H Yu et al “Quantum correlations between the light and kilogram-mass mirrors of LIGO” [arXiv 2002.01519v1](#)
13. B.P. Abbott et al, “Model comparison from LIGO-Virgo data on GW170817’s binary components and consequences for the merger remnant” [arXiv 1908.01012v3](#)
14. M. Tse et al “Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy” [Phys. Rev. Lett. 123, 231107](#)

15. B.P. Abbott et al “Search for gravitational-wave signals associated with gamma-ray bursts during the second observing run of Advanced LIGO and Advanced Virgo” [arXiv 1907.01443v3](#)
16. B.P. Abbott et al “Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during their First and Second Observing Runs” [arXiv 1907.09384v2](#)
17. B.P. Abbott et al “Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network” [arXiv 1906.08000v3](#)
18. B.P. Abbott et al “All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run” [arXiv 1905.03457v1](#)
19. B.P. Abbott et al “All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run” [arXiv 1903.12015v2](#)