

Publication list

I have co-authored 132 scientific articles intended for peer-reviewed publication, including 8 first-author papers. They have been cited more than 7,000 times and have an h -index of 46, with more than 350 citations on my first-author papers. The full list of publications can be accessed at the [SAO/NASA Astrophysics Data System](#). This document is maintained live on [github](#).

First-Author Papers

8. **C. Sifón**, J. Han, “The history and mass content of cluster galaxies in the EAGLE simulation”, 2023, [arXiv:2312.12529](#), submitted to A&A
7. **C. Sifón**, R. Herbonnet, H. Hoekstra, R. F. J. van der Burg, M. Viola, “The Galaxy-Subhalo Connection in Low-Redshift Galaxy Clusters from Weak Gravitational Lensing”, 2018, [MNRAS](#), 478, 1244 [[arXiv](#)]
6. **C. Sifón**, R. F. J. van der Burg, H. Hoekstra, A. Muzzin, R. Herbonnet, “A First Constraint on the Average Mass of Ultra Diffuse Galaxies from Weak Gravitational Lensing”, 2018, [MNRAS](#), 473, 3747 [[arXiv](#)]
5. **C. Sifón** et al. (25 co-authors), “The Atacama Cosmology Telescope: Dynamical Masses for 44 SZ-Selected Galaxy Clusters over 755 Square Degrees”, 2016, [MNRAS](#), 461, 248 [[arXiv](#)]
4. **C. Sifón** et al. (26 co-authors), “The Masses of Satellites in GAMA Galaxy Groups from 100 Square Degrees of KiDS Weak Lensing Data”, 2015, [MNRAS](#), 454, 3938 [[arXiv](#)]
3. **C. Sifón**, H. Hoekstra, M. Cacciato, M. Viola, F. Köhlinger, R. F. J. van der Burg, D. J. Sand, M. L. Graham, “Constraints on the Alignments of Galaxies in Galaxy Clusters from $\sim 14,000$ Spectroscopic Members”, 2015, [A&A](#), 575, A48 [[arXiv](#)]
2. **C. Sifón**, F. Menanteau, J. P. Hughes, M. Carrasco, L. F. Barrientos, “Strong Lensing Analysis of PLCK G004.5–19.5, a Planck-Discovered Cluster Hosting a Radio Relic at $z = 0.52$ ”, 2014, [A&A](#), 562, A43 [[arXiv](#)]
1. **C. Sifón** et al. (36 co-authors), “The Atacama Cosmology Telescope: Dynamical Masses and Scaling Relations for a Sample of Massive Sunyaev-Zel’dovich Effect Selected Galaxy Clusters”, 2013, [ApJ](#), 772, 25 [[arXiv](#)]

Major Contributor Papers

16. N. C. Robertson, **C. Sifón**, et al. (23 co-authors), “ACT-DR5 Sunyaev-Zel’dovich Clusters: Weak Lensing Mass Calibration with KiDS”, 2023, [arXiv:2304.10219](#), accepted for publication in A&A
15. A. Dolfi, F. A. Gómez, A. Monachesi, S. Varela-Lavín, P. B. Tissera, **C. Sifón**, G. Galaz, “Lopsidedness As a Tracer of Early Galactic Assembly History”, 2023, [MNRAS](#), 526, 567 [[arXiv](#)]
14. M. Hilton, **C. Sifón**, et al. (133 co-authors), “The Atacama Cosmology Telescope: a Catalog of >4000 Sunyaev-Zel’dovich Galaxy Clusters”, 2021, [ApJS](#), 253, 3 [[arXiv](#)]
13. M. S. Madhavacheril, **C. Sifón**, et al. (61 co-authors), “The Atacama Cosmology Telescope: Weighing Distant Clusters with the Most Ancient Light”, 2020, [ApJL](#), 903, 13 [[arXiv](#)]
12. R. Herbonnet, **C. Sifón**, H. Hoekstra, Y. Bahé, R. F. J. van der Burg, J.-B. Melin, A. von der Linden, D. Sand, S. Kay, D. Barnes, “CCCP and MENeCS: (Updated) Weak-Lensing Masses for 100 Galaxy Clusters”, 2020, [MNRAS](#), 497, 4684 [[arXiv](#)]
11. M. Hilton, M. Hasselfield, **C. Sifón**, et al. (43 co-authors), “The Atacama Cosmology Telescope: The Two-Season ACTPol Sunyaev-Zel’dovich Effect Selected Cluster Catalog”, 2018, [ApJS](#), 235, 20 [[arXiv](#)]
10. J. G. Albert, **C. Sifón**, A. Stroe, F. Mernier, H. T. Intema, H. J. A. Röttgering, G. Brunetti, “Complex Diffuse Emission in the $z = 0.52$ Cluster PLCK G004.5–19.5”, 2017, [A&A](#), 607, A4 [[arXiv](#)]
9. R. F. J. van der Burg, H. Hoekstra, A. Muzzin, **C. Sifón**, et al. (17 co-authors), “The Abundance of Ultra-Diffuse Galaxies from Groups to Clusters: UDGs Are Relatively More Common in More Massive Haloes”, 2017, [A&A](#), 607, A79 [[arXiv](#)]

8. E. van Uitert, M. Cacciato, H. Hoekstra, M. Brouwer, **C. Sifón**, et al. (29 co-authors), “**The Stellar-to-Halo Mass Relation of GAMA Galaxies from 100 Square Degrees of KiDS Weak Lensing Data**”, 2016, [MNRAS, 459, 3251 \[arXiv\]](#)
7. D. Kirk, M. L. Brown, H. Hoekstra, B. Joachimi, T. D. Kitching, R. Mandelbaum, **C. Sifón**, M. Cacciato, A. Choi, A. Kiessling, A. Leonard, A. Rassat, B. Malte Schäfer, “**Galaxy Alignments: Observations and Impact on Cosmology**”, 2015, [Space Sci. Rev., 193, 139 \[arXiv\]](#)
6. A. Kiessling, M. Cacciato, B. Joachimi, D. Kirk, T. D. Kitching, A. Leonard, R. Mandelbaum, B. Malte Schäfer, **C. Sifón**, M. L. Brown, A. Rassat, “**Galaxy Alignments: Theory, Modelling & Simulations**”, 2015, [Space Sci. Rev., 193, 67 \[arXiv\]](#)
5. B. Joachimi, M. Cacciato, T. D. Kitching, A. Leonard, R. Mandelbaum, B. Malte Schäfer, **C. Sifón**, H. Hoekstra, A. Kiessling, D. Kirk, A. Rassat, “**Galaxy Alignments: an Overview**”, 2015, [Space Sci. Rev., 193, 1 \[arXiv\]](#)
4. R. F. J. van der Burg, H. Hoekstra, A. Muzzin, **C. Sifón**, M. L. Balogh, S. McGee, “**Evidence for the Inside-Out Growth of the Stellar Mass Distribution in Galaxy Clusters since $z \sim 1$** ”, 2015, [A&A, 577, 19 \[arXiv\]](#)
3. M. Hilton, M. Hasselfield, **C. Sifón**, et al. (26 co-authors), “**The Atacama Cosmology Telescope: The Stellar Content of Galaxy Clusters Selected Using the Sunyaev-Zel’dovich Effect**”, 2013, [MNRAS, 435, 3469 \[arXiv\]](#)
2. F. Menanteau, **C. Sifón**, et al. (26 co-authors), “**The Atacama Cosmology Telescope: Physical Properties of Sunyaev-Zel’dovich Effect Clusters on the Celestial Equator**”, 2013, [ApJ, 765, 67 \[arXiv\]](#)
1. F. Menanteau, J. P. Hughes, **C. Sifón**, et al. (27 co-authors), “**The Atacama Cosmology Telescope: ACT-CL J0102–4915 “El Gordo,” a Massive Merging Cluster at Redshift 0.87**”, 2012, [ApJ, 748, 7 \[arXiv\]](#)

Contributing Author Papers (All including **C. Sifón**)

Submitted

9. F. Zhong, and 27 colleagues, “**Galaxy Spectra neural Network (GaSNet). II. Using Deep Learning for Spectral Classification and Redshift Predictions**”, 2023, [arXiv:2311.04146](#) submitted to MNRAS
8. C. Vargas, and 20 colleagues “**The Atacama Cosmology Telescope: Extragalactic Point Sources in the Southern Surveys at 150, 220 and 280 GHz observed between 2008-2010**”, 2023, [arXiv:2310.17535](#) submitted to ApJ
7. J. van Marrewijk, and 20 colleagues “**XLSSC 122 caught in the act of growing up: Spatially resolved SZ observations of a $z=1.98$ galaxy cluster**”, 2023, [arXiv:2310.06120](#) submitted to A&A
6. G. S. Farren, and 34 colleagues “**The Atacama Cosmology Telescope: Cosmology from cross-correlations of unWISE galaxies and ACT DR6 CMB lensing**”, 2023, [arXiv:2309.05659](#) submitted to ApJ
5. W. R. Coulton, and 153 colleagues “**The Atacama Cosmology Telescope: High-resolution component-separated maps across one-third of the sky**”, 2023, [arXiv:2307.01258](#) submitted to ApJ
4. J. Orlowski-Scherer, and 26 colleagues “**The Atacama Cosmology Telescope: Millimeter Observations of a Population of Asteroids or: ACTeroids**”, 2023, [arXiv:2306.05468](#) submitted to A&A
3. C. Hervías-Caimapo, and 21 colleagues “**The Atacama Cosmology Telescope: Flux Upper Limits from a Targeted Search for Extragalactic Transients**”, 2023, [arXiv:2301.07651](#) submitted to MNRAS
2. C. D. Kreisch, and 23 colleagues “**The Atacama Cosmology Telescope: The Persistence of Neutrino Self-Interaction in Cosmological Measurements**”, 2022, [arXiv:2207.03164](#) submitted to Phys. Rev. D
1. W. Luo, and 13 colleagues “**Dark matter halos of luminous AGNs from galaxy-galaxy lensing with the HSC Subaru Strategic Program**”, 2022, [arXiv:2204.03817](#) submitted to MNRAS

Accepted for publication

4. M. S. Madhavacheril, and 158 colleagues **“The Atacama Cosmology Telescope: DR6 Gravitational Lensing Map and Cosmological Parameters”**, 2023, [arXiv:2304.05203](#) accepted for publication in ApJ
3. F. J. Qu, and 157 colleagues **“The Atacama Cosmology Telescope: A Measurement of the DR6 CMB Lensing Power Spectrum and its Implications for Structure Growth”**, 2023, [arXiv:2304.05202](#) accepted for publication in ApJ
2. N. MacCrann, and 49 colleagues **“The Atacama Cosmology Telescope: Mitigating the impact of extra-galactic foregrounds for the DR6 CMB lensing analysis”**, 2023, [arXiv:2304.05196](#) accepted for publication in ApJ
1. G. A. Marques, and 94 colleagues **“Cosmological constraints from the tomography of DES-Y3 galaxies with CMB lensing from ACT DR4”**, 2023, [arXiv:2306.17268](#) accepted for publication in JCAP

Published

95. R. Córdova Rosado, and 17 colleagues **“The Atacama Cosmology Telescope: Galactic Dust Structure and the Cosmic PAH Background in Cross-correlation with WISE”**, 2023, [ApJ](#), 960, 96 [\[arXiv\]](#)
94. D. Anbajagane, and 113 colleagues **“Cosmological shocks around galaxy clusters: A coherent investigation with DES, SPT & ACT”**, 2024, [MNRAS](#), 527, 9378 [\[arXiv\]](#)
93. Z. Atkins, and 27 colleagues **“The Atacama Cosmology Telescope: Map-Based Noise Simulations for DR6”**, 2023, [JCAP](#), 11, 073 [\[arXiv\]](#)
92. T. M. C. Abbott, and 159 colleagues **“DES Y3 + KiDS-1000: Consistent cosmology combining cosmic shear surveys”**, 2023, [The Open Journal of Astrophysics](#), 6, 36 [\[arXiv\]](#)
91. Y. Li, and 36 colleagues **“The Atacama Cosmology Telescope: Systematic Transient Search of 3 Day Maps”**, 2023, [ApJ](#), 956, 36 [\[arXiv\]](#)
90. M. Mallaby-Kay, and 82 colleagues **“Kinematic Sunyaev-Zel’dovich effect with ACT, DES, and BOSS: A novel hybrid estimator”**, 2023, [Phys. Rev. D](#), 108, 023516 [\[arXiv\]](#)
89. B. L. Frye, and 43 colleagues **“The JWST PEARLS View of the El Gordo Galaxy Cluster and of the Structure It Magnifies”**, 2023, [ApJ](#), 952, 81 [\[arXiv\]](#)
88. J. B. Golden-Marx, and 68 colleagues **“Characterizing the intracluster light over the redshift range $0.2 < z < 0.8$ in the DES-ACT overlap”**, 2023, [MNRAS](#), 521, 478 [\[arXiv\]](#)
87. T. Kitayama, and 17 colleagues **“Galaxy clusters at $z \sim 1$ imaged by ALMA with the Sunyaev-Zel’dovich effect”**, 2023, [PASJ](#), 75, 311 [\[arXiv\]](#)
86. C. Haines, and 20 colleagues **“CHANCES: A CHileAN Cluster galaxy Evolution Survey”**, 2023, [The Messenger](#), 190, 31
85. Z. Li, and 22 colleagues **“The Atacama Cosmology Telescope: limits on dark matter-baryon interactions from DR4 power spectra”**, 2023, [JCAP](#), 2023, 046 [\[arXiv\]](#)
84. O. Contigiani, H. Hoekstra, M. M. Brouwer, A. Dvornik, M. C. Fortuna, **C. Sifón**, Z. Yan, and M. Vakili, **“Dynamical cluster masses from photometric surveys”**, 2023, [MNRAS](#), 518, 2640 [\[arXiv\]](#)
83. F. Radiconi, and 30 colleagues **“The thermal and non-thermal components within and between galaxy clusters Abell 399 and Abell 401”**, 2022, [MNRAS](#), 517, 5232 [\[arXiv\]](#)
82. S. S. Sheppard, and 19 colleagues **“A Deep and Wide Twilight Survey for Asteroids Interior to Earth and Venus”**, 2022, [AJ](#), 164, 168 [\[arXiv\]](#)
81. J. E. Greene, J. P. Greco, A. D. Goulding, S. Huang, E. Kado-Fong, S. Danieli, J. Li, J. H. Kim, Y. Komiyama, A. Leauthaud, L. A. MacArthur, and **C. Sifón**, **“The Nature of Low-surface-brightness Galaxies in the Hyper Suprime-Cam Survey”**, 2022, [ApJ](#), 933, 150 [\[arXiv\]](#)

80. M. Lokken, and 106 colleagues **“Superclustering with the Atacama Cosmology Telescope and Dark Energy Survey. I. Evidence for Thermal Energy Anisotropy Using Oriented Stacking”**, 2022, [ApJ](#), **933**, 134 [[arXiv](#)]
79. J. C. Hill, and 42 colleagues **“Atacama Cosmology Telescope: Constraints on prerecombination early dark energy”**, 2022, [Phys. Rev. D](#), **105**, 123536 [[arXiv](#)]
78. S. Pandey, and 126 colleagues **“Cross-correlation of Dark Energy Survey Year 3 lensing data with ACT and Planck thermal Sunyaev-Zel’dovich effect observations. II. Modeling and constraints on halo pressure profiles”**, 2022, [Phys. Rev. D](#), **105**, 123526 [[arXiv](#)]
77. M. Gatti, and 130 colleagues **“Cross-correlation of Dark Energy Survey Year 3 lensing data with ACT and Planck thermal Sunyaev-Zel’dovich effect observations. I. Measurements, systematics tests, and feedback model constraints”**, 2022, [Phys. Rev. D](#), **105**, 123525 [[arXiv](#)]
76. M. Lungu, and 30 colleagues **“The Atacama Cosmology Telescope: measurement and analysis of 1D beams for DR4”**, 2022, [JCAP](#), **2022**, 044 [[arXiv](#)]
75. A. Leauthaud, and 106 colleagues **“Lensing without borders - I. A blind comparison of the amplitude of galaxy-galaxy lensing between independent imaging surveys”**, 2022, [MNRAS](#), **510**, 6150 [[arXiv](#)]
74. A. D. Hincks, and 45 colleagues **“A high-resolution view of the filament of gas between Abell 399 and Abell 401 from the Atacama Cosmology Telescope and MUSTANG-2”**, 2022, [MNRAS](#), **510**, 3335 [[arXiv](#)]
73. J. H. O'Donnell, and 81 colleagues **“The Dark Energy Survey Bright Arcs Survey: Candidate Strongly Lensed Galaxy Systems from the Dark Energy Survey 5000 Square Degree Footprint”**, 2022, [ApJS](#), **259**, 27 [[arXiv](#)]
72. M. Agüena, and 24 colleagues **“CLMM: a LSST-DESC cluster weak lensing mass modeling library for cosmology”**, 2021, [MNRAS](#), **508**, 6092 [[arXiv](#)]
71. S. R. Dicker, and 28 colleagues **“Observations of compact sources in galaxy clusters using MUSTANG2”**, 2021, [MNRAS](#), **508**, 2600 [[arXiv](#)]
70. S. Naess, and 39 colleagues **“The Atacama Cosmology Telescope: A Search for Planet 9”**, 2021, [ApJ](#), **923**, 224 [[arXiv](#)]
69. J. Kim, M. J. Jee, J. P. Hughes, M. Yoon, K. HyeonHan, F. Menanteau, **C. Sifón**, L. Hovey, and P. Arunachalam **“Head-to-Toe Measurement of El Gordo: Improved Analysis of the Galaxy Cluster ACT-CL J0102-4915 with New Wide-field Hubble Space Telescope Imaging Data”**, 2021, [ApJ](#), **923**, 101 [[arXiv](#)]
68. S. Adhikari, and 115 colleagues **“Probing Galaxy Evolution in Massive Clusters Using ACT and DES: Splashback as a Cosmic Clock”**, 2021, [ApJ](#), **923**, 37 [[arXiv](#)]
67. Y. Li, and 32 colleagues **“Constraining Cosmic Microwave Background Temperature Evolution With Sunyaev-Zel'Dovich Galaxy Clusters from the Atacama Cosmology Telescope”**, 2021, [ApJ](#), **922**, 136 [[arXiv](#)]
66. T. Shin, and 138 colleagues **“The mass and galaxy distribution around SZ-selected clusters”**, 2021, [MNRAS](#), **507**, 5758 [[arXiv](#)]
65. Y. Guan, and 32 colleagues **“The Atacama Cosmology Telescope: Microwave Intensity and Polarization Maps of the Galactic Center”**, 2021, [ApJ](#), **920**, 6 [[arXiv](#)]
64. J. Orlowski-Scherer, and 37 colleagues **“Atacama Cosmology Telescope measurements of a large sample of candidates from the Massive and Distant Clusters of WISE Survey. Sunyaev-Zeldovich effect confirmation of MaDCoWS candidates using ACT”**, 2021, [A&A](#), **653**, A135 [[arXiv](#)]
63. E. M. Vavagiakis, and 53 colleagues **“The Atacama Cosmology Telescope: Probing the baryon content of SDSS DR15 galaxies with the thermal and kinematic Sunyaev-Zel'dovich effects”**, 2021, [Phys. Rev. D](#), **104**, 043503 [[arXiv](#)]
62. V. Calafut, and 53 colleagues **“The Atacama Cosmology Telescope: Detection of the pairwise kinematic Sunyaev-Zel'dovich effect with SDSS DR15 galaxies”**, 2021, [Phys. Rev. D](#), **104**, 043502 [[arXiv](#)]

61. M. Mallaby-Kay, and 59 colleagues **“The Atacama Cosmology Telescope: Summary of DR4 and DR5 Data Products and Data Access”**, 2021, *ApJS*, 255, 11 [[arXiv](#)]
60. K. Knowles, and 28 colleagues **“MERGHERS pilot: MeerKAT discovery of diffuse emission in nine massive Sunyaev-Zel’dovich-selected galaxy clusters from ACT”**, 2021, *MNRAS*, 504, 1749 [[arXiv](#)]
59. N. C. Robertson, and 50 colleagues **“Strong detection of the CMB lensing and galaxy weak lensing cross-correlation from ACT-DR4, Planck Legacy, and KiDS-1000”**, 2021, *A&A*, 649, A146 [[arXiv](#)]
58. B. J. Fuzia, and 21 colleagues **“The Atacama Cosmology Telescope: SZ-based masses and dust emission from IR-selected cluster candidates in the SHELA survey”**, 2021, *MNRAS*, 502, 4026 [[arXiv](#)]
57. S. Amodeo, and 54 colleagues **“Atacama Cosmology Telescope: Modeling the gas thermodynamics in BOSS CMASS galaxies from kinematic and thermal Sunyaev-Zel’dovich measurements”**, 2021, *Phys. Rev. D*, 103, 063514 [[arXiv](#)]
56. E. Schaan, and 58 colleagues **“Atacama Cosmology Telescope: Combined kinematic and thermal Sunyaev-Zel’dovich measurements from BOSS CMASS and LOWZ halos”**, 2021, *Phys. Rev. D*, 103, 063513 [[arXiv](#)]
55. O. Darwish, and 54 colleagues **“The Atacama Cosmology Telescope: a CMB lensing mass map over 2100 square degrees of sky and its cross-correlation with BOSS-CMASS galaxies”**, 2021, *MNRAS*, 500, 2250 [[arXiv](#)]
54. E. N. Taylor, and 18 colleagues **“GAMA + KiDS: empirical correlations between halo mass and other galaxy properties near the knee of the stellar-to-halo mass relation”**, 2020, *MNRAS*, 499, 2896 [[arXiv](#)]
53. S. Aiola, and 140 colleagues **“The Atacama Cosmology Telescope: DR4 maps and cosmological parameters”**, 2020, *JCAP*, 2020, 047 [[arXiv](#)]
52. S. Naess, and 61 colleagues **“The Atacama Cosmology Telescope: arcminute-resolution maps of 18 000 square degrees of the microwave sky from ACT 2008-2018 data combined with Planck”**, 2020, *JCAP*, 2020, 046 [[arXiv](#)]
51. S. K. Choi, and 138 colleagues **“The Atacama Cosmology Telescope: a measurement of the Cosmic Microwave Background power spectra at 98 and 150 GHz”**, 2020, *JCAP*, 2020, 045 [[arXiv](#)]
50. Z. Li, and 31 colleagues **“The cross correlation of the ABS and ACT maps”**, 2020, *JCAP*, 2020, 010 [[arXiv](#)]
49. Y. Rong, and 13 colleagues **“Intrinsic Morphology of Ultra-diffuse Galaxies”**, 2020, *ApJ*, 899, 78 [[arXiv](#)]
48. L. Linke, P. Simon, P. Schneider, T. Erben, D. J. Farrow, C. Heymans, H. Hildebrandt, A. M. Hopkins, A. Kannawadi, N. R. Napolitano, **C. Sifón**, and A. H. Wright **“KiDS+VIKING+GAMA: Testing semi-analytic models of galaxy evolution with galaxy-galaxy-galaxy lensing”**, 2020, *A&A*, 640, A59 [[arXiv](#)]
47. M. S. Madhavacheril, and 55 colleagues **“Atacama Cosmology Telescope: Component-separated maps of CMB temperature and the thermal Sunyaev-Zel’dovich effect”**, 2020, *Phys. Rev. D*, 102, 023534 [[arXiv](#)]
46. T. Namikawa, and 53 colleagues **“Atacama Cosmology Telescope: Constraints on cosmic birefringence”**, 2020, *Phys. Rev. D*, 101, 083527 [[arXiv](#)]
45. S. Huang, A. Leauthaud, A. Hearin, P. Behroozi, C. Bradshaw, F. Ardila, J. Speagle, A. Tenneti, K. Bundy, J. Greene, **C. Sifón**, and N. Bahcall, **“Weak lensing reveals a tight connection between dark matter halo mass and the distribution of stellar mass in massive galaxies”**, 2020, *MNRAS*, 492, 3685 [[arXiv](#)]
44. Q. Xia, and 14 colleagues **“A gravitational lensing detection of filamentary structures connecting luminous red galaxies”**, 2020, *A&A*, 633, A89 [[arXiv](#)]
43. H. Hildebrandt, and 27 colleagues **“KiDS+VIKING-450: Cosmic shear tomography with optical and infrared data”**, 2020, *A&A*, 633, A69 [[arXiv](#)]
42. J. S. Speagle, A. Leauthaud, S. Huang, C. P. Bradshaw, F. Ardila, P. L. Capak, D. J. Eisenstein, D. C. Masters, R. Mandelbaum, S. More, M. Simet, and **C. Sifón**, **“Galaxy-Galaxy lensing in HSC: Validation tests and the impact of heterogeneous spectroscopic training sets”**, 2019, *MNRAS*, 490, 5658 [[arXiv](#)]

41. K. R. Hall, and 25 colleagues **“Quantifying the thermal Sunyaev-Zel’dovich effect and excess millimetre emission in quasar environments”**, 2019, *MNRAS*, 490, 2315 [arXiv]
40. A. H. Wright, and 24 colleagues **“KiDS+VIKING-450: A new combined optical and near-infrared dataset for cosmology and astrophysics”**, 2019, *A&A*, 632, A34 [arXiv]
39. K. Knowles, and 13 colleagues **“GMRT 610 MHz observations of galaxy clusters in the ACT equatorial sample”**, 2019, *MNRAS*, 486, 1332 [arXiv]
38. C. Hikage, and 36 colleagues **“Cosmology from cosmic shear power spectra with Subaru Hyper Suprime-Cam first-year data”**, 2019, *PASJ*, 71, 43 [arXiv]
37. H. Miyatake, and 59 colleagues **“Weak-lensing Mass Calibration of ACTPol Sunyaev-Zel’dovich Clusters with the Hyper Suprime-Cam Survey”**, 2019, *ApJ*, 875, 63 [arXiv]
36. M. M. Brouwer, and 17 colleagues **“Studying galaxy troughs and ridges using weak gravitational lensing with the Kilo-Degree Survey”**, 2018, *MNRAS*, 481, 5189 [arXiv]
35. R. Wojtak, and 19 colleagues **“Galaxy Cluster Mass Reconstruction Project - IV. Understanding the effects of imperfect membership on cluster mass estimation”**, 2018, *MNRAS*, 481, 324 [arXiv]
34. A. Jakobs, and 20 colleagues **“Multiwavelength scaling relations in galaxy groups: a detailed comparison of GAMA and KiDS observations to BAHAMAS simulations”**, 2018, *MNRAS*, 480, 3338 [arXiv]
33. A. Dvornik, and 13 colleagues **“Unveiling galaxy bias via the halo model, KiDS, and GAMA”**, 2018, *MNRAS*, 479, 1240 [arXiv]
32. J. P. Greco, and 13 colleagues **“Illuminating Low Surface Brightness Galaxies with the Hyper Suprime-Cam Survey”**, 2018, *ApJ*, 857, 104 [arXiv]
31. E. Medezinski, and 15 colleagues **“Source selection for cluster weak lensing measurements in the Hyper Suprime-Cam survey”**, 2018, *PASJ*, 70, 30 [arXiv]
30. L. Old, and 17 colleagues **“Galaxy Cluster Mass Reconstruction Project - III. The impact of dynamical substructure on cluster mass estimates”**, 2018, *MNRAS*, 475, 853 [arXiv]
29. J. F. Wu, P. Aguirre, A. J. Baker, M. J. Devlin, M. Hilton, J. P. Hughes, L. Infante, R. R. Lindner, and **C. Sifón**, **“Herschel and ALMA Observations of Massive SZE-selected Clusters”**, 2018, *ApJ*, 853, 195 [arXiv]
28. E. Medezinski, N. Battaglia, K. Umetsu, M. Oguri, H. Miyatake, A. J. Nishizawa, **C. Sifón**, D. N. Spergel, I.-N. Chiu, Y.-T. Lin, N. Bahcall, and Y. Komiyama **“Planck Sunyaev-Zel’dovich cluster mass calibration using Hyper Suprime-Cam weak lensing”**, 2018, *PASJ*, 70, S28 [arXiv]
27. R. Mandelbaum, and 30 colleagues **“The first-year shear catalog of the Subaru Hyper Suprime-Cam Subaru Strategic Program Survey”**, 2018, *PASJ*, 70, S25 [arXiv]
26. M. Velliscig, and 16 colleagues **“Galaxy-galaxy lensing in EAGLE: comparison with data from 180 deg² of the KiDS and GAMA surveys”**, 2017, *MNRAS*, 471, 2856 [arXiv]
25. A. Dvornik, and 21 colleagues **“A KiDS weak lensing analysis of assembly bias in GAMA galaxy groups”**, 2017, *MNRAS*, 468, 3251 [arXiv]
24. M. M. Brouwer, and 21 colleagues **“First test of Verlinde’s theory of emergent gravity using weak gravitational lensing measurements”**, 2017, *MNRAS*, 466, 2547 [arXiv]
23. M. M. Brouwer, and 34 colleagues **“Dependence of GAMA galaxy halo masses on the cosmic web environment from 100 deg² of KiDS weak lensing data”**, 2016, *MNRAS*, 462, 4451 [arXiv]
22. S. Bellstedt, and 16 colleagues **“The evolution in the stellar mass of brightest cluster galaxies over the past 10 billion years”**, 2016, *MNRAS*, 460, 2862 [arXiv]
21. N. Battaglia, and 41 colleagues **“Weak-lensing mass calibration of the Atacama Cosmology Telescope equatorial Sunyaev-Zeldovich cluster sample with the Canada-France-Hawaii telescope stripe 82 survey”**, 2016, *JCAP*, 2016, 013 [arXiv]
20. K. Knowles, and 21 colleagues **“A giant radio halo in a low-mass SZ-selected galaxy cluster: ACT-CL J0256.5+0006”**, 2016, *MNRAS*, 459, 4240 [arXiv]

19. D. Crichton, and 22 colleagues **“Evidence for the thermal Sunyaev-Zel’dovich effect associated with quasar feedback”**, 2016, [MNRAS](#), 458, 1478 [[arXiv](#)]
18. K. Kuijken, and 34 colleagues **“Gravitational lensing analysis of the Kilo-Degree Survey”**, 2015, [MNRAS](#), 454, 3500 [[arXiv](#)]
17. K. Y. Ng, W. A. Dawson, D. Wittman, M. J. Jee, J. P. Hughes, F. Menanteau, and **C. Sifón**, **“The return of the merging galaxy subclusters of El Gordo?”**, 2015, [MNRAS](#), 453, 1531 [[arXiv](#)]
16. M. Viola, and 26 colleagues **“Dark matter halo properties of GAMA galaxy groups from 100 square degrees of KiDS weak lensing data”**, 2015, [MNRAS](#), 452, 3529 [[arXiv](#)]
15. J. T. A. de Jong, and 48 colleagues **“The first and second data releases of the Kilo-Degree Survey”**, 2015, [A&A](#), 582, A62 [[arXiv](#)]
14. B. Kirk, and 22 colleagues **“SALT spectroscopic observations of galaxy clusters detected by ACT and a type II quasar hosted by a brightest cluster galaxy”**, 2015, [MNRAS](#), 449, 4010 [[arXiv](#)]
13. L. Old, and 23 colleagues **“Galaxy Cluster Mass Reconstruction Project - II. Quantifying scatter and bias using contrasting mock catalogues”**, 2015, [MNRAS](#), 449, 1897 [[arXiv](#)]
12. R. R. Lindner, and 26 colleagues **“The Atacama Cosmology Telescope: The LABOCA/ACT Survey of Clusters at All Redshifts”**, 2015, [ApJ](#), 803, 79 [[arXiv](#)]
11. M. B. Gralla, and 40 colleagues **“A measurement of the millimetre emission and the Sunyaev-Zel’dovich effect associated with low-frequency radio sources”**, 2014, [MNRAS](#), 445, 460 [[arXiv](#)]
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