

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](#), accepted for publication in 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, [A&A](#), 681, 87 [[arXiv](#)]
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

7. 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
6. 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
5. 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
4. 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
3. 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
2. 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
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

3. K. Małek, and 24 colleagues, “**Attenuation proxy hidden in surface brightness-colour diagrams. A new strategy for the LSST era**”, 2024, [arXiv:2401.12831](#) accepted for publication in A&A
2. C. Hervías-Caimapo, and 21 colleagues “**The Atacama Cosmology Telescope: Flux Upper Limits from a Targeted Search for Extragalactic Transients**”, 2023, [arXiv:2301.07651](#) accepted for publication in MNRAS
1. N. MacCrann, and 49 colleagues “**The Atacama Cosmology Telescope: Mitigating the impact of extragalactic foregrounds for the DR6 CMB lensing analysis**”, 2023, [arXiv:2304.05196](#) accepted for publication in ApJ

Published

100. C. D. Kreisch, and 23 colleagues “**The Atacama Cosmology Telescope: The Persistence of Neutrino Self-Interaction in Cosmological Measurements**”, 2024, [Phys. Rev. D, 109, 3501](#) [[arXiv](#)]
99. M. S. Madhavacheril, and 158 colleagues “**The Atacama Cosmology Telescope: DR6 Gravitational Lensing Map and Cosmological Parameters**”, 2024, [ApJ, 962, 113](#) [[arXiv](#)]
98. 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**”, 2024, [ApJ, 962, 112](#) [[arXiv](#)]
97. S. Shaikh, and 111 colleagues, “**Cosmology from cross-correlation of ACT-DR4 CMB lensing and DES-Y3 cosmic shear**”, 2024, [MNRAS, 528, 2112](#) [[arXiv](#)]
96. G. A. Marques, and 94 colleagues “**Cosmological constraints from the tomography of DES-Y3 galaxies with CMB lensing from ACT DR4**”, 2024, [JCAP, 01, 033](#) [[arXiv](#)]
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. Aguena, 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. Schaaf, 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](#)]
10. L. Old, and 20 colleagues “Galaxy cluster mass reconstruction project - I. Methods and first results on galaxy-based techniques”, 2014, [MNRAS, 441, 1513](#) [[arXiv](#)]
9. M. J. Jee, J. P. Hughes, F. Menanteau, **C. Sifón**, R. Mandelbaum, L. F. Barrientos, L. Infante, and K. Y. Ng “Weighing “El Gordo” with a Precision Scale: Hubble Space Telescope Weak-lensing Analysis of the Merging Galaxy Cluster ACT-CL J0102-4915 at $z = 0.87$ ”, 2014, [ApJ, 785, 20](#) [[arXiv](#)]
8. J. T. A. de Jong, and 58 colleagues “The Kilo-Degree Survey”, 2013, [The Messenger, 154, 44](#)
7. M. Hasselfield, and 43 colleagues “The Atacama Cosmology Telescope: Sunyaev-Zel’dovich selected galaxy clusters at 148 GHz from three seasons of data”, 2013, [JCAP, 2013, 008](#) [[arXiv](#)]
6. E. Calabrese, and 33 colleagues “Cosmological parameters from pre-planck cosmic microwave background measurements”, 2013, [Phys. Rev. D, 87, 103012](#) [[arXiv](#)]
5. N. Sehgal, and 35 colleagues “The Atacama Cosmology Telescope: Relation between Galaxy Cluster Optical Richness and Sunyaev-Zel’dovich Effect”, 2013, [ApJ, 767, 38](#) [[arXiv](#)]
4. H. Miyatake, and 28 colleagues “Subaru weak lensing measurement of a $z = 0.81$ cluster discovered by the Atacama Cosmology Telescope Survey”, 2013, [MNRAS, 429, 3627](#) [[arXiv](#)]
3. B. D. Sherwin, and 30 colleagues “The Atacama Cosmology Telescope: Cross-correlation of cosmic microwave background lensing and quasars”, 2012, [Phys. Rev. D, 86, 083006](#) [[arXiv](#)]
2. N. Hand, and 57 colleagues “Evidence of Galaxy Cluster Motions with the Kinematic Sunyaev-Zel’dovich Effect”, 2012, [Phys. Rev. Letters, 109, 041101](#) [[arXiv](#)]
1. E. D. Reese, and 43 colleagues “The Atacama Cosmology Telescope: High-resolution Sunyaev-Zel’dovich Array Observations of ACT SZE-selected Clusters from the Equatorial Strip”, 2012, [ApJ, 751, 12](#) [[arXiv](#)]