Publication list

I have co-authored 83 scientific articles intended for peer-reviewed publication, including 7 first-author papers. They have been cited more than 4,000 times and have an h-index of 35, with more than 300 citations on my first-author papers. The full list of publications can be accessed at this url. This document is maintained live on `github`.

First-Author Papers

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 ∼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

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 MENeaCS: (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)

62. V. Calafut et al. (53 co-authors), **"The Atacama Cosmology Telescope: Detection of the Pairwise Kinematic Sunyaev-Zel'dovich Effect with SDSS Dr15 Galaxies"**, 2020, arXiv:2101.08374

61. E. M. Vavagiakis et al. (52 co-authors), **"The Atacama Cosmology Telescope: Probing the Baryon Content of SDSS DR15 Galaxies with the Thermal and Kinematic Sunyaev-Zel'dovich Effects"**, 2020, arXiv:2101.08373

60. S. Adhikari et al. (113 co-authors), **"Probing Galaxy Evolution in Massive Clusters using ACT and DES: Splashback as a Cosmic Clock"**, 2020, arXiv:2008.11663, submitted to ApJ

59. M. Mallaby-Kay et al. (69 co-authors), **"The Atacama Cosmology Telescope: Summary of DR4 and DR5 Data Products and Data Access"**, 2020, ApJS, 225, 11, [arXiv]

58. N. C. Robertson et al. (46 co-authors), **"Strong Detection of the CMB Lensing $\times$ Galaxy Weak Lensing Cross-Correlation from ACT-DR4, Planck Legacy and KiDS-1000"**, 2021, A&A, 649, 146, [arXiv]

57. K. Knowles et al. (28 co-authors), **"MERGHERS Pilot: MeerKAT Discovery of Diffuse Emission in Nine Massive Sunyaev-Zel'dovich-Selected Galaxy Clusters from ACT"**, 2021, MNRAS, 504, 1749 [arXiv]

56. S. Amodeo et al. (55 co-authors), **"The Atacama Cosmology Telescope: Modelling the Gas Thermodynamics in BOSS CMASS Galaxies from Kinematic and Thermal Sunyaev-Zel'dovich Measurements"**, 2021, Phys. Rev. D, 103, 063514 [arXiv]

55. E. Schaan et al. (61 co-authors), **"The Atacama Cosmology Telescope: Combined Kinematic and Thermal Sunyaev-Zel'dovich Measurements from BOSS CMASS and LOWZ Halos"**, 2021, Phys. Rev. D, 103, 063513 [arXiv]

54. B. Fuzia et al. (22 co-authors), **"The Atacama Cosmology Telescope: SZ-Based Masses and Dust Emission from IR-Selected Cluster Candidates in the SHELA Survey"**, 2021, MNRAS, 502, 4026 [arXiv]

53. O. Darwish et al. (45 co-authors), **"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]

52. S. Aiola et al. (140 co-authors), **"The Atacama Cosmology Telescope: DR4 Maps and Cosmological Parameters"**, 2020, JCAP, 12, 047 [arXiv]

51. S. Naess et al. (61 co-authors), **"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, 12, 046 [arXiv]

50. S. K. Choi et al. (138 co-authors), **"The Atacama Cosmology Telescope: a Measurement of the Cosmic Microwave Background Power Spectra at 98 and 150 GHz"**, 2020, JCAP, 12, 045 [arXiv]

49. E. N. Taylor et al. (17 co-authors), **"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]

48. Z. Li et al. (27 co-authors), **"The Cross Correlation of the ABS and ACT Maps"**, 2020, JCAP, 09, 010 [arXiv]

47. Y. Rong et al. (13 co-authors), **"Intrinsic Morphology Evolution of Ultra-diffuse Galaxies"**, 2019, ApJ, 899, 78 [arXiv]

46. L. Linke et al. (12 co-authors), **"KiDS+VIKING+GAMA: Testing Semi-Analytic Models of Galaxy Evolution with Galaxy-Galaxy-Galaxy-Lensing"**, 2020. A&A, 640, 59 [arXiv]

45. M. Madhavacheril et al. (49 co-authors), **"The Atacama Cosmology Telescope: Component-Separated Maps of CMB Temperature and the Thermal Sunyaev-Zel'dovich Effect"**, 2020, Phys. Rev. D, 102, 023534 [arXiv]

44. T. Namikawa et al. (55 co-authors), **"The Atacama Cosmology Telescope: Constraints on Cosmic Birefringence"**, 2020, Phys. Rev. D, 101, 083527 [arXiv]

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42. Q. Xia et al. (13 co-authors), **"A Gravitational Lensing Detection of Filamentary Structures Connecting Luminous Red Galaxies"**, 2020, A&A, 633, 89 [arXiv]

41. H. Hildebrandt et al. (28 co-authors), **"KiDS+VIKING-450: Cosmic Shear Tomography with Optical+infrared Data"**, 2020, A&A, 633, 69 [arXiv]

40. J. S. Speagle et al. (12 co-authors), **"Galaxy-Galaxy Lensing in HSC: Validation Tests and the Impact of Heterogeneous Spectroscopic Training Sets"**, 2019, MNRAS, 490, 5658 [arXiv]

39. K. R. Hall et al. (25 co-authors), **"Quantifying the Thermal Sunyaev-Zel'dovich Effect and Excess Millimeter Emission in Quasar Environments"**, 2019, MNRAS, 490, 2315 [arXiv]

38. A. K. Wright et al. (22 co-authors), **"KiDS+VIKING-450: A New Combined Optical & Near-IR Dataset for Cosmology and Astrophysics"**, 2019, A&A, 632, A34 [arXiv]

37. C. Hikage et al. (30 co-authors), **"Cosmology from Cosmic Shear Power Spectra with Subaru Hyper Suprime-Cam First-Year Data"**, 2019, PASJ, 71, 43 [arXiv]

36. H. Miyatake et al. (58 co-authors), **"Weak-Lensing Mass Calibration of ACTPol Sunyaev-Zel'dovich Clusters with the Hyper Suprime-Cam Survey"**, 2019, ApJ, 875, 63 [arXiv]

35. K. Knowles et al. (14 co-authors), **"GMRT 610 MHz Observations of Galaxy Clusters in the ACT Equatorial Sample"**, 2019, MNRAS, 486, 1332 [arXiv]

34. M. Brouwer et al. (18 co-authors), **"Studying Galaxy Troughs and Ridges using Weak Gravitational Lensing with the Kilo-Degree Survey"**, 2018, MNRAS, 481, 5189 [arXiv]

33. R. Wojtak et al. (17 co-authors), **"Galaxy Cluster Mass Reconstruction Project - IV. Understanding the Effects of Imperfect Membership on Cluster Mass Estimation"**, 2018, MNRAS, 481, 324 [arXiv]

32. A. Jakobs et al. (20 co-authors), **"Multi-Wavelength Scaling Relations in Galaxy Groups: a Detailed Comparison of GAMA and KiDS Observations to BAHAMAS Simulations"**, 2018, MNRAS, 480, 3338 [arXiv]

31. A. Dvornik et al. (14 co-authors), **"Unveiling Galaxy Bias via the Halo Model, KiDS and GAMA"**, 2018, MNRAS, 479, 1240 [arXiv]

30. J. P. Greco et al. (13 co-authors), **"Illuminating Low-Surface-Brightness Galaxies with the Hyper Suprime-Cam Survey"**, 2018, ApJ, 857, 104 [arXiv]

29. J. F. Wu, P. Aguirre, A. J. Baker, M. J. Devlin, M. Hilton, J. P. Hughes, L. Infante, R. R. Lindner, **C. Sifón**, **"Herschel and ALMA Observations of Massive SZE-selected Clusters"**, 2018, ApJ, 853, 195 [arXiv]

28. E. Medezinski et al. (16 co-authors), **"Source Selection for Cluster Weak Lensing Measurements in the Hyper Suprime-Cam Survey"**, 2018, PASJ, 70, 30 [arXiv]

27. E. Medezinski et al. (12 co-authors), **"Planck Sunyaev-Zel'dovich Cluster Mass Calibration using Hyper Suprime-Cam Weak Lensing"**, 2018, PASJ, 70, 28 [arXiv]

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25. L. Old et al. (18 co-authors), **"Galaxy Cluster Mass Reconstruction Project: III. The Impact of Dynamical Substructure on Cluster Mass Estimates"**, 2018, MNRAS, 475, 853 [arXiv]

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23. A. Dvornik et al. (22 co-authors), **"A KiDS Weak Lensing Analysis of Assembly Bias in GAMA Galaxy Groups"**, 2017, MNRAS, 468, 3251 [arXiv]

22. M. M. Brouwer et al. (22 co-authors), **"First Test of Verlinde's Theory of Emergent Gravity Using Weak Gravitational Lensing Measurements"**, 2017, MNRAS, 466, 2547 [arXiv]

21. M. M. Brouwer et al. (36 co-authors), **"Dependence of GAMA Galaxy Halo Masses on the Cosmic Web Environment from 100 Square Degrees of KiDS Weak Lensing Data"**, 2016, MNRAS, 462, 4451 [arXiv]

20. N. Battaglia et al. (39 co-authors), **"Weak-Lensing Mass Calibration of the Atacama Cosmology Telescope Equatorial Sunyaev-Zel'dovich Cluster Sample with the Canada-France-Hawaii Telescope Stripe 82 Survey"**, 2016, JCAP, 08, 013 [arXiv]

19. S. Bellstedt et al. (16 co-authors), **"The Evolution in the Stellar Mass of Brightest Cluster Galaxies over the Past 10 Billion Years"**, 2016, MNRAS, 460, 2862 [arXiv]

18. K. Knowles et al. (21 co-authors), **"A Giant Radio Halo in a Low-Mass SZ-Selected Galaxy Cluster: ACT-CL J0256.5+0006"**, 2016, MNRAS, 459, 4240 [arXiv]

17. D. Crichton et al. (22 co-authors), **"Evidence for the Thermal Sunyaev-Zel'dovich Effect Associated with Quasar Feedback"**, 2016, MNRAS, 458, 1478 [arXiv]

16. J. T. A. de Jong et al. (49 co-authors), **"The First and Second Data Releases of the Kilo Degree Survey"**, 2015, A&A, 582, 62 [arXiv]

15. K. Kuijken et al. (35 co-authors), **"Gravitational Lensing Analysis of the Kilo Degree Survey"**, 2015, MNRAS, 454, 3500 [arXiv]

14. K. Y. Ng, W. A. Dawson, D. Wittman, M. J. Jee, J. P. Hughes, F. Menanteau, **C. Sifón**, **"The Return of the Merging Galaxy Subclusters of El Gordo?"**, 2015, MNRAS, 453, 1531 [arXiv]

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11. B. Kirk et al. (23 co-authors), **"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]

10. L. Old et al. (24 co-authors), **"Galaxy Cluster Mass Reconstruction Project: II. Results for Galaxy-Based Techniques with Improved Models"**, 2015, MNRAS, 449, 1897 [arXiv]

9. M. B. Gralla et al. (41 co-authors), **"A Measurement of the Millimeter Emission and the Sunyaev-Zel'dovich Effect Associated with Low-Frequency Radio Sources"**, 2014, MNRAS, 445, 460 [arXiv]

8. L. Old et al. (21 co-authors), **"Galaxy Cluster Mass Reconstruction Project: I. Methods and First Results on Galaxy-Based Techniques"**, 2014, MNRAS, 441, 1513 [arXiv]

7. M. J. Jee, J. P. Hughes, F. Menanteau, **C. Sifón**, L. F. Barrientos, L. Infante, R. Mandelbaum, K. Y. Ng, **"Weighing "El Gordo" with a Precision Scale: Hubble Space Telescope Weak-Lensing Analysis of the Galaxy Cluster ACT-CL J0102-4915 at** $z = 0.87$**"**, 2014, ApJ, 785, 20 [arXiv]

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0. E. D. Reese et al. (44 co-authors), **"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]