

PUBLICATIONS

ALEXIE LEAUTHAUD

- Total number of publications: 102
- h-index: 52, g-index: 102
- Three first author papers with over 150 citations
- Total citation count: 10,862
- Leauthaud et al. 2012 among top 10 cited papers in Astrophysics in 2012, 258 citations

FIRST AND SECOND AUTHOR PUBLICATIONS IN REFEREED JOURNALS

19. **Leauthaud, A.** et al. 2017, *Lensing is Low: Cosmology, Galaxy Formation, or New Physics?*, MNRAS, accepted
18. **Leauthaud, A.** et al. 2016, *The Stripe 82 Massive Galaxy Project II: Stellar Mass Completeness of Spectroscopic Galaxy Samples from the Baryon Oscillation Spectroscopic Survey*, MNRAS, 457, Issue 4, p.4021-4037
17. Saito, S., **Leauthaud, A.**, et al. 2016, *Connecting Massive Galaxies to Dark Matter Halos in BOSS. I: Is Galaxy Color a Stochastic Process in High Mass Halos?*, MNRAS, 460, Issue 2, p.1457-1475
16. Battaglia, N., **Leauthaud, A.**, et al. 2016, *Weak-lensing mass calibration of the Atacama Cosmology Telescope equatorial Sunyaev-Zeldovich cluster sample with the Canada-France-Hawaii telescope stripe 82 survey*, JCAP, article id. 013 (2016)
15. Hand, N., **Leauthaud, A.**, et al. 2015, *First measurement of the cross-correlation of CMB lensing and galaxy lensing*, PhRvD, 91, 062001
14. Bundy, K., **Leauthaud, A.**, et al. 2015, *The Stripe 82 Massive Galaxy Project. I. Catalog Construction*, ApJS, 221, 15
13. Kobayashi, M. I. N., **Leauthaud, A.**, More, S., Okabe, N., Laigle, C., Rhodes, J., & Takeuchi, T. T. 2015, *Can we use weak lensing to measure total mass profiles of galaxies on 20 kpc scales?*, MNRAS, 449, 2128
12. Hoshino, H., **Leauthaud, A.**, et al. 2015, *Luminous red galaxies in clusters: central occupation, spatial distributions and miscentring*, MNRAS, 452, 998
11. **Leauthaud, A.** et al. 2015, *The Dark Matter Halos of Moderate Luminosity AGN as Determined by Weak Gravitational Lensing and Host Stellar Mass*, MNRAS, 446, 1874-1888
10. Tinker, J. L., **Leauthaud, A.**, Bundy, K., George, M. R., Behroozi, P., Massey, R., Rhodes, J., & Wechsler, R. H. 2013, *Evolution of the Stellar-to-dark Matter Relation: Separating Star-forming and Passive Galaxies from $z = 1$ to 0*, ApJ, 778, 93
9. **Leauthaud, A.** et al. 2012, *The Integrated Stellar Content of Dark Matter Halos*, ApJ, 746, 95
8. **Leauthaud, A.** et al. 2012, *New Constraints on the Evolution of the Stellar-to-dark Matter Connection: A Combined Analysis of Galaxy-Galaxy Lensing, Clustering, and Stellar Mass Functions from $z = 0.2$ to $z = 1$* , ApJ, 744, 159
7. George, M. R., **Leauthaud, A.**, et al. 2012, *Galaxies in X-Ray Groups. II. A Weak Lensing Study of Halo Centering*, ApJ, 757, 2
6. George, M. R., **Leauthaud, A.**, et al. 2011, *Galaxies in X-Ray Groups. I. Robust Membership Assignment and the Impact of Group Environments on Quenching*, ApJ, 742, 125
5. **Leauthaud, A.** Tinker, J., Behroozi, P. S., Busha, M. T., & Wechsler, R. H. 2011, *A Theoretical Framework for Combining Techniques that Probe the Link Between Galaxies and Dark Matter*, ApJ, 738, 45
4. Schmidt, F., **Leauthaud, A.**, Massey, R., Rhodes, J., George, M. R., Koekemoer, A. M., Finoguenov, A., & Tanaka, M. 2012, *A Detection of Weak-lensing Magnification Using Galaxy Sizes and Magnitudes*, ApJ, 744, L22
3. Rhodes, J., **Leauthaud, A.**, Stoughton, C., Massey, R., Dawson, K., Kolbe, W., & Roe, N. 2010, *The*

Effects of Charge Transfer Inefficiency (CTI) on Galaxy Shape Measurements, PASP, 122, 439

2. **Leauthaud, A.**, et al. 2010, *A Weak Lensing Study of X-ray Groups in the COSMOS Survey: Form and Evolution of the Mass-Luminosity Relation*, ApJ, 709, 97

1. **Leauthaud, A.**, et al. 2007, *Weak Gravitational Lensing with COSMOS: Galaxy Selection and Shape Measurements*, ApJS, 172, 219

SELECTED PUBLICATIONS IN REFEREED JOURNALS

17. Sunayama, T., Hearin, A. P., Padmanabhan, N., & **Leauthaud, A.** 2016, *The scale-dependence of halo assembly bias*, MNRAS, 458, 1510

16. Reid, B. A., Seo, H.-J., **Leauthaud, A.**, Tinker, J. L., & White, M. 2014, *A 2.5 per cent measurement of the growth rate from small-scale redshift space clustering of SDSS-III CMASS galaxies*, MNRAS, 444, 476

15. Rykoff, E. S., et al. 2014, *redMaPPer. I. Algorithm and SDSS DR8 Catalog*, ApJ, 785, 104

14. George, M. R., Ma, C.-P., Bundy, K., **Leauthaud, A.**, Tinker, J., Wechsler, R. H., Finoguenov, A., & Vulcani, B. 2013, *Galaxies in X-Ray Groups. III. Satellite Color and Morphology Transformations*, ApJ, 770, 113

13. Tinker, J. L., George, M. R., **Leauthaud, A.**, Bundy, K., Finoguenov, A., Massey, R., Rhodes, J., & Wechsler, R. H. 2012, *The Correlated Formation Histories of Massive Galaxies and Their Dark Matter Halos*, ApJ, 755, L5

12. Nipoti, C., Treu, T., **Leauthaud, A.**, Bundy, K., Newman, A. B., & Auger, M. W. 2012, *Size and velocity-dispersion evolution of early-type galaxies in a Λ cold dark matter universe*, MNRAS, 422, 1714

11. Taylor, J. E., et al. 2012, *Measuring the Geometry of the Universe from Weak Gravitational Lensing behind Galaxy Groups in the HST COSMOS Survey*, ApJ, 749, 127

10. Mandelbaum, R., Hirata, C. M., **Leauthaud, A.**, Massey, R. J., & Rhodes, J. 2012, *Precision simulation of ground-based lensing data using observations from space*, MNRAS, 420, 1518

9. Bundy, K., Scarlata, C., Carollo, C. M., Ellis, R. S., Drory, N., Hopkins, P., Salvato, M., **Leauthaud, A.**, Koekemoer, A. M., Murray, N., Ilbert, O., Oesch, P., Ma, C.-P., Capak, P., Pozzetti, L., & Scoville, N. 2010, *The Rise and Fall of Passive Disk Galaxies: Morphological Evolution Along the Red Sequence Revealed by COSMOS*, ApJ, 719, 1969

8. Daniel, S. F., Linder, E. V., Smith, T. L., Caldwell, R. R., Cooray, A., **Leauthaud, A.**, & Lombriser, L. 2010, *Testing general relativity with current cosmological data*, PhRvD, 81, 123508

7. Massey, R., Stoughton, C., **Leauthaud, A.**, Rhodes, J., Koekemoer, A., Ellis, R., & Shaghoulouian, E. 2010, *Pixel-based correction for Charge Transfer Inefficiency in the Hubble Space Telescope Advanced Camera for Surveys*, MNRAS, 401, 371

6. Drory, N., Bundy, K., **Leauthaud, A.**, Scoville, N., Capak, P., Ilbert, O., Kartaltepe, J. S., Kneib, J. P., McCracken, H. J., Salvato, M., Sanders, D. B., Thompson, D., & Willott, C. J. 2009, *The Bimodal Galaxy Stellar Mass Function in the COSMOS Survey to $z \sim 1$: A Steep Faint End and a New Galaxy Dichotomy*, ApJ, 707, 1595

5. Faure, C., Kneib, J.-P., Hilbert, S., Massey, R., Covone, G., Finoguenov, A., **Leauthaud, A.**, Taylor, J. E., Pires, S., Scoville, N., & Koekemoer, A. M. 2009, *On the Contribution of Large-Scale Structure to Strong Gravitational Lensing*, ApJ, 695, 1233

4. Faure, C., Kneib, J.-P., Covone, G., Tasca, L., **Leauthaud, A.**, Capak, P., Jahnke, K., Smolcic, V., de la Torre, S., Ellis, R., Finoguenov, A., Koekemoer, A., Le Fevre, O., Massey, R., Mellier, Y., Refregier, A., Rhodes, J., Scoville, N., Schinnerer, E., Taylor, J., Van Waerbeke, L., & Walcher, J. 2008, *First Catalog of Strong Lens Candidates in the COSMOS Field*, ApJS, 176, 19

3. Massey, R., Rhodes, J., **Leauthaud, A.**, Capak, P., Ellis, R., Koekemoer, A., Réfrégier, A., Scoville, N., Taylor, J. E., Albert, J., Bergé, J., Heymans, C., Johnston, D., Kneib, J.-P., Mellier, Y., Mobasher, B., Semboloni, E., Shopbell, P., Tasca, L., & Van Waerbeke, L. 2007, *COSMOS: Three-dimensional Weak Lensing and the Growth of Structure*, ApJS, 172, 239

2. Rhodes, J. D., Massey, R. J., Albert, J., Collins, N., Ellis, R. S., Heymans, C., Gardner, J. P., Kneib, J.-

P., Koekemoer, A., **Leauthaud, A.**, Mellier, Y., Refregier, A., Taylor, J. E., & Van Waerbeke, L. 2007, *The Stability of the Point-Spread Function of the Advanced Camera for Surveys on the Hubble Space Telescope and Implications for Weak Gravitational Lensing*, ApJS, 172, 203

1. Massey, R., Rhodes, J., Ellis, R., Scoville, N., **Leauthaud, A.**, Finoguenov, A., Capak, P., Bacon, D., Aussel, H., Kneib, J.-P., Koekemoer, A., McCracken, H., Mobasher, B., Pires, S., Refregier, A., Sasaki, S., Starck, J.-L., Taniguchi, Y., Taylor, A., & Taylor, J. 2007, *Dark matter maps reveal cosmic scaffolding*, Nature, 445, 286

OTHER PUBLICATIONS IN REFEREED JOURNALS

65. Li, R., et al. 2016, *Measuring subhalo mass in redMaPPer clusters with CFHT Stripe 82 Survey*, MNRAS, 458, 2573

64. Laigle, C., et al. 2016, *The COSMOS2015 Catalog: Exploring the $1 < z < 6$ Universe with Half a Million Galaxies*, ApJS, 224, 24

63. Bundy, K., et al. 2015, *Overview of the SDSS-IV MaNGA Survey: Mapping nearby Galaxies at Apache Point Observatory*, ApJ, 798, 7

62. Coupon, J., et al. 2015, *The galaxy-halo connection from a joint lensing, clustering and abundance analysis in the CFHTLenS/VIPERS field*, MNRAS, 449, 1352

61. Alam, S., et al. 2015, *The Eleventh and Twelfth Data Releases of the Sloan Digital Sky Survey: Final Data from SDSS-III*, ApJS, 219, 12

60. Liu, X., et al. 2015, *Cosmological constraints from weak lensing peak statistics with Canada-France-Hawaii Telescope Stripe 82 Survey*, MNRAS, 450, 2888

59. Geach, J. E., et al. 2015, *The Red Radio Ring: a gravitationally lensed hyperluminous infrared radio galaxy at $z = 2.553$ discovered through the citizen science project SPACE WARPS*, MNRAS, 452, 502

58. Vulcani, B., et al. 2014, *Understanding the Unique Assembly History of Central Group Galaxies*, ApJ, 797, 62

57. Beifiori, A., et al. 2014, *Redshift Evolution of the Dynamical Properties of Massive Galaxies from SDSS-III/BOSS*, ApJ, 789, 92

56. Mandelbaum, R., et al. 2014, *The Third Gravitational Lensing Accuracy Testing (GREAT3) Challenge Handbook*, ApJS, 212, 5

55. Ahn, C. P., et al. 2014, *The Tenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Apache Point Observatory Galactic Evolution Experiment*, ApJS, 211, 17

54. Scoville, N., et al. 2013, *Evolution of Galaxies and Their Environments at $z = 0.1-3$ in COSMOS*, ApJS, 206, 3

53. Comparat, J., et al. 2013, *Investigating emission-line galaxy surveys with the Sloan Digital Sky Survey infrastructure*, MNRAS, 428, 1498

52. Kampczyk, P., et al. 2013, *Environmental Effects in the Interaction and Merging of Galaxies in zCOSMOS*, ApJ, 762, 43

51. Ahn, C. P., et al. 2012, *The Ninth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Baryon Oscillation Spectroscopic Survey*, ApJS, 203, 21

50. Jauzac, M., et al. 2012, *A weak lensing mass reconstruction of the large-scale filament feeding the massive galaxy cluster MACS J0717.5+3745*, MNRAS, 426, 3369

49. Ford, J., et al. 2012, *Magnification by Galaxy Group Dark Matter Halos*, ApJ, 754, 143

48. Masters, K. L., et al. 2011, *The morphology of galaxies in the Baryon Oscillation Spectroscopic Survey*, MNRAS, 418, 1055

47. Coppa, G., et al. 2011, *The bimodality of the 10k zCOSMOS-bright galaxies up to $z=1$: a new statistical and portable classification based on optical galaxy properties*, A&A, 535, A10

46. de la Torre, S., et al. 2011, *The zCOSMOS-Bright survey: the clustering of early and late galaxy morphological types since $z=1$* , MNRAS, 412, 825

45. Kovač, K., et al. 2011, *The Nonlinear Biasing of the zCOSMOS Galaxies up to $z=1$ from the 10k*

Sample, ApJ, 731, 102

44. Capak, P., et al. 2011, *Spectroscopy of Luminous $z \gtrsim 7$ Galaxy Candidates and Sources of Contamination in $z > 7$ Galaxy Searches*, ApJ, 730, 68
43. Cisternas, M., et al. 2011, *The Bulk of the Black Hole Growth Since $z=1$ Occurs in a Secular Universe: No Major Merger-AGN Connection*, ApJ, 726, 57
42. de la Torre, S., et al. 2010, *Understanding the shape of the galaxy two-point correlation function at $z = 1$ in the COSMOS field*, MNRAS, 409, 867
41. Bolzonella, M., et al. 2010, *Tracking the impact of environment on the galaxy stellar mass function up to $z=1$ in the 10 k zCOSMOS sample*, A&A, 524, A76
40. Moresco, M., et al. 2010, *zCOSMOS 10k-bright spectroscopic sample . Exploring mass and environment dependence in early-type galaxies*, A&A, 524, A67
39. Cucciati, O., et al. 2010, *The zCOSMOS 10k-sample: the role of galaxy stellar mass in the colour-density relation up to $z=1$* , A&A, 524, A2
38. Cameron, E., et al. 2010, *Bars in early- and late-type discs in COSMOS*, MNRAS, 409, 346
37. Pozzetti, L., et al. 2010, *zCOSMOS - 10k-bright spectroscopic sample. The bimodality in the galaxy stellar mass function: exploring its evolution with redshift*, A&A, 523, A13
36. Peng, Y.-J., et al. 2010, *Mass and Environment as Drivers of Galaxy Evolution in SDSS and zCOSMOS and the Origin of the Schechter Function*, ApJ, 721, 193
35. Kovač, K., et al. 2010, *The 10k zCOSMOS: Morphological Transformation of Galaxies in the Group Environment Since $z \sim 1$* , ApJ, 718, 86
34. Civano, F., et al. 2010, *A Runaway Black Hole in COSMOS: Gravitational Wave or Slingshot Recoil?*, ApJ, 717, 209
33. Sargent, M. T., et al. 2010, *The Opacity of Galactic Disks at $z \sim 0.7$* , ApJ, 714, L113
32. Oesch, P. A., et al. 2010, *The Buildup of the Hubble Sequence in the Cosmos Field*, ApJ, 714, L47
31. Bardelli, S., et al. 2010, *Properties and environment of radio-emitting galaxies in the VLA-zCOSMOS survey*, A&A, 511, A1
30. Bongiorno, A., et al. 2010, *The [O iii] emission line luminosity function of optically selected type-2 AGN from zCOSMOS*, A&A, 510, A56
29. Vergani, D., et al. 2010, *K+a galaxies in the zCOSMOS survey . Physical properties of systems in their post-starburst phase*, A&A, 509, A42
28. Iovino, A., et al. 2010, *The zCOSMOS redshift survey: how group environment alters global downsizing trends*, A&A, 509, A40
27. Caputi, K. I., et al. 2009, *The Optical Spectra of Spitzer 24 μ m Galaxies in the Cosmic Evolution Survey Field. II. Faint Infrared Sources in the zCOSMOS-Bright 10k Catalog*, ApJ, 707, 1387
26. Zucca, E., et al. 2009, *The zCOSMOS survey: the role of the environment in the evolution of the luminosity function of different galaxy types*, A&A, 508, 1217
25. Lilly, S. J., et al. 2009, *The zCOSMOS 10k-Bright Spectroscopic Sample*, ApJS, 184, 218
24. Meneux, B., et al. 2009, *The zCOSMOS survey. The dependence of clustering on luminosity and stellar mass at $z=0.2-1$* , A&A, 505, 463
23. Giodini, S., et al. 2009, *Stellar and Total Baryon Mass Fractions in Groups and Clusters Since Redshift 1*, ApJ, 703, 982
22. Tasca, L. A. M., et al. 2009, *The zCOSMOS redshift survey: the role of environment and stellar mass in shaping the rise of the morphology-density relation from $z \sim 1$* , A&A, 503, 379
21. Knobel, C., et al. 2009, *An Optical Group Catalog to $z = 1$ from the zCOSMOS 10 k Sample*, ApJ, 697, 1842
20. Maier, C., et al. 2009, *The Dependence of Star Formation Activity on Stellar Mass Surface Density and Sersic Index in zCOSMOS Galaxies at $0.5 < z < 0.9$ Compared with SDSS Galaxies at $0.04 < z < 0.08$* , ApJ, 694, 1099

19. Gabor, J. M., et al. 2009, *Active Galactic Nucleus Host Galaxy Morphologies in COSMOS*, ApJ, 691, 705
18. Caputi, K. I., et al. 2009, *The Close Environment of 24 μm Galaxies at $0.6 < z < 1.0$ in the Cosmos Field*, ApJ, 691, 91
17. Ilbert, O., et al. 2009, *Cosmos Photometric Redshifts with 30-Bands for 2-deg²*, ApJ, 690, 1236
16. Gilli, R., et al. 2009, *The spatial clustering of X-ray selected AGN in the XMM-COSMOS field*, A&A, 494, 33
15. Mignoli, M., et al. 2009, *The zCOSMOS redshift survey: the three-dimensional classification cube and bimodality in galaxy physical properties*, A&A, 493, 39
14. Caputi, K. I., et al. 2008, *The Optical Spectra of 24 μm Galaxies in the COSMOS Field. I. Spitzer MIPS Bright Sources in the zCOSMOS-Bright 10k Catalog*, ApJ, 680, 939
13. Shioya, Y., et al. 2008, *The H α Luminosity Function and Star Formation Rate at $z \sim 0.24$ in the COSMOS 2 Square Degree Field*, ApJS, 175, 128
12. Robin, A. C., et al. 2007, *The Stellar Content of the COSMOS Field as Derived from Morphological and SED-based Star/Galaxy Separation*, ApJS, 172, 545
11. Scarlata, C., et al. 2007, *The Redshift Evolution of Early-Type Galaxies in COSMOS: Do Massive Early-Type Galaxies Form by Dry Mergers?*, ApJS, 172, 494
10. Sargent, M. T., et al. 2007, *The Evolution of the Number Density of Large Disk Galaxies in COSMOS*, ApJS, 172, 434
9. Scarlata, C., et al. 2007, *COSMOS Morphological Classification with the Zurich Estimator of Structural Types (ZEST) and the Evolution Since $z = 1$ of the Luminosity Function of Early, Disk, and Irregular Galaxies*, ApJS, 172, 406
8. Brusa, M., et al. 2007, *The XMM-Newton Wide-Field Survey in the COSMOS Field. III. Optical Identification and Multiwavelength Properties of a Large Sample of X-Ray-Selected Sources*, ApJS, 172, 353
7. Kampczyk, P., et al. 2007, *Simulating the Cosmos: The Fraction of Merging Galaxies at High Redshift*, ApJS, 172, 329
6. McCracken, H. J., et al. 2007, *The Angular Correlations of Galaxies in the COSMOS Field*, ApJS, 172, 314
5. Guzzo, L., et al. 2007, *The Cosmic Evolution Survey (COSMOS): A Large-Scale Structure at $z=0.73$ and the Relation of Galaxy Morphologies to Local Environment*, ApJS, 172, 254
4. Koekemoer, A. M., et al. 2007, *The COSMOS Survey: Hubble Space Telescope Advanced Camera for Surveys Observations and Data Processing*, ApJS, 172, 196
3. Finoguenov, A., et al. 2007, *The XMM-Newton Wide-Field Survey in the COSMOS Field: Statistical Properties of Clusters of Galaxies*, ApJS, 172, 182
2. Capak, P., et al. 2007, *The First Release COSMOS Optical and Near-IR Data and Catalog*, ApJS, 172, 99
1. Lilly, S. J., et al. 2007, *zCOSMOS: A Large VLT/VIMOS Redshift Survey Covering $0 < z < 3$ in the COSMOS Field*, ApJS, 172, 70