

Rachel Mandelbaum

In June 2018, my h-index was 53 according to NASA Astrophysics Data System (ADS), with >18,000 citations when including all papers. When excluding large collaboration papers for which I was not part of the lead authorship team, my h-index is 47. Other identifying information:

NASA ADS search results for my publications: <http://tinyurl.com/pdftxjw>

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Publications submitted to refereed journals, under review

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| 2018 | Costanzi, M., Rozo, E., Rykoff, E. S., Farahi, A., Jeltema, T., Evrard, A. E., Mantz, A., Gruen, D., Mandelbaum, R., DeRose, J., McClintock, T., Varga, T. N., Zhang, Y., Weller, J., Wechsler, R. H., and Aguena, M. (2018). Modeling projection effects in optically-selected cluster catalogues. <i>arXiv:1807.07072</i> |
| | Rau, M. M., Koposov, S. E., Trac, H., and Mandelbaum, R. (2018). Calibrating Long Period Variables as Standard Candles with Machine Learning. <i>arXiv:1806.02841</i> |
| | Chen, Y.-C., Ho, S., Blazek, J., He, S., Mandelbaum, R., Melchior, P., and Singh, S. (2018). Detecting Galaxy-Filament Alignments in the Sloan Digital Sky Survey III. <i>arXiv:1805.00159</i> |
| | Miyatake, H. et al. (2018). Weak-Lensing Mass Calibration of ACTPol Sunyaev-Zel'dovich Clusters with the Hyper Suprime-Cam Survey. <i>arXiv:1804.05873</i> |
| | Singh, S., Alam, S., Mandelbaum, R., Seljak, U., Rodriguez-Torres, S., and Ho, S. (2018). Probing gravity with a joint analysis of galaxy and CMB lensing and SDSS spectroscopy. <i>arXiv:1803.08915</i> |
| | Alam, S., Zu, Y., Peacock, J. A., and Mandelbaum, R. (2018). Cosmic web dependence of galaxy clustering and quenching in SDSS. <i>arXiv:1801.04878</i> |
| 2017 | Mandelbaum, R. (2017). Weak lensing for precision cosmology. <i>arXiv:1710.03235</i> |
| | Mandelbaum, R., Lanusse, F., Leauthaud, A., Armstrong, R., Simet, M., Miyatake, H., Meyers, J. E., Bosch, J., Miyazaki, S., and Tanaka, M. (2017). Weak lensing shear calibration with simulations of the HSC survey. <i>arXiv:1710.00885</i> |
| | Hikage, C., Mandelbaum, R., Leauthaud, A., Rozo, E., and Rykoff, E. S. (2017). Testing redMaPPer Centering Probabilities using Galaxy Clustering and Galaxy-Galaxy Lensing. <i>arXiv:1702.08614</i> |
| | Huff, E. and Mandelbaum, R. (2017). Metacalibration: Direct Self-Calibration of Biases in Shear Measurement. <i>arXiv:1702.02600</i> |

Publications in refereed journals (published or in press)

- 2018
- Huang, S., Leauthaud, A., Greene, J., Bundy, K., Lin, Y.-T., Tanaka, M., Mandelbaum, R., Miyazaki, S., and Komiyama, Y. (2018c). A detection of the environmental dependence of the sizes and stellar haloes of massive central galaxies. *Mon. Not. R. Astr. Soc.*, 480:521–537
 - Hall, K. R., Crichton, D., Marriage, T., Zakamska, N. L., and Mandelbaum, R. (2018). Downsizing of star formation measured from the clustered infrared background correlated with quasars. *Mon. Not. R. Astr. Soc.*, 480:149–181
 - Leonard, C. D. and Mandelbaum, R. (2018). Measuring the scale dependence of intrinsic alignments using multiple shear estimates. *Mon. Not. R. Astr. Soc.*, 479:1412–1426
 - Zu, Y. and Mandelbaum, R. (2018). Mapping stellar content to dark matter haloes - III. Environmental dependence and conformity of galaxy colours. *Mon. Not. R. Astr. Soc.*, 476:1637–1653
 - Lanusse, F., Ma, Q., Li, N., Collett, T. E., Li, C.-L., Ravanbakhsh, S., Mandelbaum, R., and Póczos, B. (2018). CMU DeepLens: deep learning for automatic image-based galaxy-galaxy strong lens finding. *Mon. Not. R. Astr. Soc.*, 473:3895–3906
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 - Medezinski, E. et al. (2018). Source selection for cluster weak lensing measurements in the Hyper Suprime-Cam survey. *Publications of the Astronomical Society of Japan*, 70:30
 - Mao, Y.-Y. et al. (2018). DESCQA: An Automated Validation Framework for Synthetic Sky Catalogs. *The Astrophysical Journal Supplement Series*, 234:36
 - Oguri, M. et al. (2018). Two- and three-dimensional wide-field weak lensing mass maps from the Hyper Suprime-Cam Subaru Strategic Program S16A data. *Publications of the Astronomical Society of Japan*, 70:S26
 - Bosch, J. et al. (2018). The Hyper Suprime-Cam software pipeline. *Publications of the Astronomical Society of Japan*, 70:S5
 - Mandelbaum, R. et al. (2018). The first-year shear catalog of the Subaru Hyper Suprime-Cam Subaru Strategic Program Survey. *Publications of the Astronomical Society of Japan*, 70:S25

- Miyaoka, K. et al. (2018). Multiwavelength study of X-ray luminous clusters in the Hyper Suprime- Cam Subaru Strategic Program S16A field. *Publications of the Astronomical Society of Japan*, 70:S22
- Nishizawa, A. J. et al. (2018). First results on the cluster galaxy population from the Subaru Hyper Suprime-Cam survey. II. Faint end color-magnitude diagrams and radial profiles of red and blue galaxies at $0.1 < z < 1.1$. *Publications of the Astronomical Society of Japan*, 70:S24
- Huang, S. et al. (2018b). Characterization and photometric performance of the Hyper Suprime-Cam Software Pipeline. *Publications of the Astronomical Society of Japan*, 70:S6
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- Singh, S., Mandelbaum, R., Seljak, U., Slosar, A., and Vazquez Gonzalez, J. (2017b). Galaxy-galaxy lensing estimators and their covariance properties. *Mon. Not. R. Astr. Soc.*, 471:3827–3844
- Zu, Y., Mandelbaum, R., Simet, M., Rozo, E., and Rykoff, E. S. (2017). On the level of cluster assembly bias in SDSS. *Mon. Not. R. Astr. Soc.*, 470:551–560
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- Simet, M., Battaglia, N., Mandelbaum, R., and Seljak, U. (2017a). Weak lensing calibration of mass bias in the REFLEX+BCS X-ray galaxy cluster catalogue. *Mon. Not. R. Astr. Soc.*, 466:3663–3673
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- Chen, Y.-C., Ho, S., Mandelbaum, R., Bahcall, N. A., Brownstein, J. R., Freeman, P. E., Genovese, C. R., Schneider, D. P., and Wasserman, L. (2017). Detecting effects of filaments on galaxy properties in the Sloan Digital Sky Survey III. *Mon. Not. R. Astr. Soc.*, 466:1880–1893
- Alam, S., Miyatake, H., More, S., Ho, S., and Mandelbaum, R. (2017). Testing gravity on large scales by combining weak lensing with galaxy clustering using CFHTLenS and BOSS CMASS. *Mon. Not. R. Astr. Soc.*, 465:4853–4865
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- 2015 Chen, Y.-C., Ho, S., Tenneti, A., Mandelbaum, R., Croft, R., DiMatteo, T., Freeman, P. E., Genovese, C. R., and Wasserman, L. (2015). Investigating galaxy-filament alignments in hydrodynamic simulations using density ridges. *Mon. Not. R. Astr. Soc.*, 454:3341–3350
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Publications in refereed journals: large collaboration papers

- 2018 Aihara, H. et al. (2018a). First data release of the Hyper Suprime-Cam Subaru Strategic Program. *Publications of the Astronomical Society of Japan*, 70:S8
- Aihara, H. et al. (2018b). The Hyper Suprime-Cam SSP Survey: Overview and survey design. *Publications of the Astronomical Society of Japan*, 70:S4
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