Publication List for Ashley J. Ross

March 31, 2018

1 Preamble

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Summary: This document contains all of the papers on which I am credited with authorship. I have divided them into three sections: 1) 1st author, primary author of alphabetical paper, or supervisor of 1st author, 2) co-author, major contributor, and 3) co-author. For each paper, I have briefly described the work I did for it. Papers with more than 50 citations have been noted. Papers I consider important and that I made critical contributions have bolded titles.

1st-Author, corresponding author, or supervisor of 1st-author


This work was led by AJR in his role as working group leader. The author list is alphabetical. He wrote a plurality of the text, performed all of the correlation function analysis, and made 11 out 15 figures.


This work was led by AJR in his role as working group leader. The author list is alphabetical. He wrote a plurality of the text, and made all of figures, except for 1.


This work was led by AJR. He conceived of the project and decided on the analysis performed. He wrote over 90% of the text and made 5 of 7 figures.

More than 50 citations
This work was led by AJR. He conceived of the project and decided on the analysis performed. He wrote over 90% of the text, made all of the figures and performed all of the analysis except for the results presented in Appendix D.


AJR advised M. Tellarini specifically on numerical analysis techniques, interpretation, and presentation throughout project (and generally as 2nd supervisor), edited.


This work was led by AJR. He conceived of the project with WJP, determined most of the analytical results and all of the empirical results. He wrote over 80% of the text and made all of the figures.


More than 50 citations
Contribution from AJR: Conceived of project and worked with Ph.D. student C. Howlett to finish it in every phase. (From sample definition, to model implementation, to interpretation of results, etc.)


More than 300 Citations
This work was led by AJR, and was done in tandem with Howlett et al. above. He conceived of the project and decided on the analysis performed. He wrote over 90% of the text, made all of the figures.


This work was led by AJR. He conceived of the project and decided on the analysis performed. He wrote over 80% of the text, made 16 of the 21 figures and performed all of the analysis except for the results presented in Section 6.


More than 50 citations
This work was led by AJR. He conducted all of the statistical tests performed in the paper except those in Appendix C. He wrote over 90% of the draft text and generated all of the figures.

More than 100 citations
This work was led by AJR. He designed and undertook all statistical tests except those in section 6.1, and developed the methods applied to ameliorate systematic effects, where they were found. He wrote 80% of the draft text and made 25 out of the 30 figures. The lead tier of authors undertook the remainder of the work, with other co-authors involved in obtaining the BOSS data used, and contributing to the final editing and polishing of the text.


More than 100 citations This work was led by AJR. He created the galaxy catalog used in the analysis. He tested the clustering of these galaxies against potential systematic effects and designed methods to ameliorate any systematic effects. He designed all of tests applied, calculated all statistics presented himself, wrote over 90% of the draft text, and generated all of the figures.


This work was led by AJR. He conducted all of the statistical tests performed in the paper. He wrote over 90% of the draft text and generated all of the figures himself.


This work was led by AJR. He conducted all of the statistical tests performed in the paper. He wrote over 80% of the draft text and generated all of the figures.


This work was led by AJR. He conducted all of the statistical tests performed in the paper. He wrote over 80% of the draft text and generated all of the figures.


This work was led by AJR, as part of his PhD thesis. He conducted all of the statistical tests performed in the paper. He wrote over 90% of the draft text and generated all of the figures.


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This work was led by AJR, as part of his PhD thesis. He conducted all of the statistical tests performed in the paper. He wrote over 90% of the draft text and generated all of the figures.

**Co-Author, major contributor**


AJR helped with interpretation of low redshift BAO results.


AJR helped with interpretation and editing.


AJR helped with interpretation, editing, and sample definition.


AJR advised on how to use BOSS data, the methodology applied, tests required prior to unblinding, and interpretation of results; edited.


AJR helped with interpretation systematic uncertainty results and editing.


AJR advised on the techniques to use and the interpretation of results throughout the entire process of the project; edited.


AJR advised on how to use the data and mock samples and aided in interpretation of results; edited.

AJR advised on requirements for the mocks and tests that demonstrated success for the mocks throughout the lifetime of the project; edited.


AJR provided criteria for assessing the optimality of samples for BAO analysis, conducted systematic analysis, produced figure 8, helped interpret all results, edited.


Contribution from AJR: Helped advise student through completion of project, which contributed to Ph.D. thesis. Discussed progress on weekly basis, aided interpretation of all results, helped derive results in appendix.


AJR advised on interpretation of results; edited.


More than 200 citations

Contribution from AJR: Wrote in sections 1, 2, 3, 5, 7, and 8; made Fig. 3; calculated correlation function BAO statistics and analyzed them in conjunction with power spectrum BAO statistics; edited, advised, and discussed interpretation throughout lifetime of project, part of coordinated release of SDSS-III BOSS DR12 analyses.


More than 50 citations

Fully alphabetical author list. AJR advised on interpretation and presentation throughout the lifetime of the project; wrote text on interpretation of $\chi^2$ values.


AJR collaborated on all aspects of analysis and interpretation throughout the lifetime of the project and edited.


AJR advised on interpretation of results; edited.

AJR helped with determination of corrections for observational systematic effects; advised on interpretation of results; edited.


AJR advised on interpretation of results; edited.


AJR advised on interpretation of results; edited.


AJR advised on interpretation of results; edited.


AJR discussed methods for modeling the BAO signal and interpreting the results throughout lifetime of project; edited.


AJR contributed fits to mocks and discussed methods with lead author throughout lifetime of the project.


AJR contributed fits to mocks and discussed interpretation of results with lead author; edited.


AJR helped conceive of project by developing pieces of the model the paper helps justify; advised on meaning of results throughout its lifetime; edited.


AJR advised throughout lifetime of the project; assessed the potential cosmological value and observational systematics associated with proposed LRG samples; edited.

AJR advised throughout lifetime of project, especially about BOSS data and interpretation of clustering results, edited.


More than 50 citations
AJR confirmed many of the calculations with his own forecasting code; advised throughout lifetime of project; edited.


AJR helped conceive of project as DES LSS working group lead; advised on application of method to measure galaxy clustering and interpretation of results.


AJR contributed to all aspects of analysis throughout project; co-wrote text throughout and edited repeated drafts throughout review process.


More than 100 citations
AJR wrote text describing how systematic weights are determined for use in BOSS catalogs; part of BOSS DR12 results, AJR aided in catalog creation process throughout lifetime of BOSS survey.


AJR edited, advised, and discussed interpretation throughout lifetime of project.


More than 600 citations
Alphabetical author list. AJR wrote in sections 2, 4, and 6; made Figs 4,5,6,10,11,12,16, and 17; calculated all isotropic correlation function BAO statistics and analyzed them in conjunction with power spectrum BAO statistics; helped define new systematic weights; managed author list; edited, advised, and discussed interpretation throughout lifetime of project; part of coordinated release of SDSS-III BOSS DR11 analyses.

**More than 50 citations** AJR wrote sections 5 and 6; made figures 3, 4, 7, 8, 10, 11, 12; calculated all isotropic correlation function BAO statistics; edited, advised, and discussed interpretation throughout lifetime of project.


**More than 100 citations** AJR calculated all isotropic correlation function BAO statistics; edited, advised, and discussed interpretation throughout lifetime of project, part of coordinated release of SDSS-III BOSS DR11 analyses.


**More than 100 citations** AJR edited, advised, and discussed interpretation throughout lifetime of project, part of coordinated release of SDSS-III BOSS DR11 analyses.


AJR advised M. Tellarini on numerical analysis techniques, interpretation, and presentation throughout project.


AJR created photoz catalogs used in the analysis, advised on their proper treatment, edited.


**More than 50 citations** AJR created LRG catalogs used in the analysis, advised on treatment of all galaxy samples, advised on analysis techniques, provided consistency checks, made Figs. 9 and 10, wrote text in III B and D, edited.


**More than 50 citations** AJR provided recommendations for treatment of power spectrum measurements, advised on analysis throughout, edited.
AJR calculated correlation functions, advised on analysis techniques, edited.

More than 200 citations
AJR provided consistency checks, Made Figs. 12, 15, 16, Table 3, edited.

More than 500 citations
Alphabetical author list. AJR calculated the (un-reconstructed) correlation functions that were used, co-wrote text appearing in Section 3 and Appendix A, managed/produced author list, edited.

More than 100 citations
AJR produced catalog used for clustering results and advised on its proper use, made fig. 25, edited.

More than 50 citations
AJR advised on systematic tests, edited.

More than 300 citations
AJR provided the recommendations for calculation of correlation functions and corrections for systematics that were used, provided consistency checks, edited.

More than 100 citations
AJR produced catalog used for clustering results and advised on its proper use, provided numbers and text describing catalog, edited.

More than 50 citations
AJR advised on systematic tests, edited.

More than 300 citations
AJR provided the recommendations for calculation of correlation functions and corrections for systematics that were used, provided consistency checks, edited.
More than 100 citations
AJR provided the recommendations for calculation of correlation functions and corrections for systematics that were used, edited.


AJR provided code for model calculations, data in SDSSpix pixelization, advised and edited.


AJR wrote text on practical applications, edited.


More than 50 citations
AJR created LRG photoz catalog and instructed on proper use, edited.

Other Co-Author


This paper was part of a set of DR14 analyses that AJR provided significant work on catalogs and general direction.


This paper was part of a set of BOSS DR12 analyses that AJR provided significant work on catalogs and general direction.


AJR helped define and test DES Y1 data samples; edited.


AJR help define LSS lens sample.


This paper was part of a set of DR14 analyses that AJR provided significant work on catalogs and general direction.

More than 100 citations
AJR contributed more than 1 month FTE towards SDSS-IV during relevant period for data release paper.


AJR advised on treatment of observational systematic and interpretation of results.


AJR helped advise on best use of clustering samples and interpretation of results.


AJR helped test and validate quasar catalog.


AJR offered advice on how to obtain results and present them throughout lifetime of project.


AJR provided some cosmological forecast information, advised on interpretation of results.


AJR helped produce LSS samples used in analysis.


More than 50 citations
AJR helped advise on interpretation of results and appropriate use of data.


AJR helped edit and advise on interpretation of results.


AJR helped edit and advise on interpretation of results.


This paper was part of a set of BOSS DR12 analyses that AJR provided significant work on catalogs and general direction.

AJR contributed more than 1 month FTE towards SDSS-IV during relevant period for data release paper.


More than 50 citations
AJR contributed more than 1 month FTE towards SDSS-IV.


AJR helped define quasar sample and advised on interpretation of results.


This paper was part of a set of BOSS DR12 analyses that AJR provided significant work on catalogs and general direction.


More than 50 citations
AJR advised on interpretation of results; edited.


AJR advised in role as LSS co-chair.


AJR advised in implementation of systematic tests and their interpretation.


AJR advised in role as LSS co-chair and aided in implementation of systematic tests and their interpretation.


AJR advised in use of data and interpretation of results, edited.


AJR advised lead author on use of BOSS data.

**More than 100 citations**
AJR contributed >1 month FTE on DESI.

AJR contributed >1 month FTE on DESI.


**More than 50 citations**
AJR advised in use of data and interpretation of results.

AJR helped conceive of project as DES LSS working group lead, edited.


**More than 100 citations**
AJR edited and advised on text on galaxy bias.


**More than 50 citations**
AJR determined systematic weights to be used in BOSS DR12 analyses; advised on interpretation of results; part of BOSS DR12 results.

AJR advised in role as LSS co-chair and aided in implementation of systematic tests and their interpretation.


**More than 50 citations**
AJR determined systematic weights to be used in BOSS DR12 analyses; advised on interpretation of results; part of BOSS DR12 results.

AJR advised on interpretation of results, edited.


AJR contributed to interpretation of results and decisions on best data samples to analyze throughout project, edited.


More than 50 citations AJR determined systematic weights to be used in BOSS DR12 analyses; wrote text about interpretation of BOSS large-scale power and observational systematics; part of BOSS DR12 results.


More than 100 citations AJR worked with co-authors throughout lifetime of the project to assess the cosmological value and observational systematics associated with proposed eBOSS samples.


More than 200 citations AJR aided in implementation of galaxy BAO distance measurements.


AJR worked with co-authors throughout lifetime of the project to assess the cosmological value and observational systematics associated with proposed quasar samples.


More than 700 citations AJR greater than 1 month FTE spent on SDSS-III analysis.


AJR advised on analysis techniques and interpretation, edited.


More than 50 citations AJR edited, advised, and discussed interpretation throughout lifetime of project.

AJR edited, advised on interpretation of results, part of coordinated release of SDSS-III BOSS DR11 analyses.


**More than 100 citations**
AJR edited, advised on interpretation of results, part of coordinated release of SDSS-III BOSS DR11 analyses.


AJR edited and advised on interpretation of results.


**More than 50 citations**
AJR edited and advised on interpretation of results; part of coordinated release of SDSS-III BOSS DR11 analyses.


AJR advised on analysis techniques and interpretation, edited.


**More than 600 citations**
AJR spent more than 1 month FTE on DR10 data analysis.


**More than 100 citations**
AJR provided the recommendations for calculation of correlation functions and corrections for systematics that were used, edited.


**More than 50 citations**
AJR provided the recommendations for calculation of correlation functions and corrections for systematics that were used, edited.

AJR provided the recommendations for calculation of correlation functions and corrections for systematics that were used, edited.


**More than 50 citations**
AJR provided the recommendations for calculation of correlation functions and corrections for systematics that were used, edited.


**More than 50 citations**
AJR provided the recommendations for calculation of correlation functions and corrections for systematics that were used, edited.


AJR provided the recommendations for calculation of correlation functions and corrections for systematics that were used, edited.


**More than 50 citations**
AJR provided the recommendations for calculation of correlation functions and corrections for systematics that were used, edited.


**More than 800 citations**
AJR helped edit.


**More than 800 citations**
AJR spent more than 1 month FTE on SDSS-III DR9 analysis.


**More than 50 citations**
AJR produced catalog used for clustering results and advised on its proper use, edited.

More than 50 citations
AJR provided the recommendations for calculation of correlation functions and corrections for systematics that were used, edited.

[130] ——, “The progenitors of present-day massive red galaxies up to z ~ 0.7 - finding passive galaxies using SDSS-I/II and SDSS-III,” *MNRAS*, vol. 424, pp. 136–156, July 2012.

AJR advised on meaning of results, edited.


More than 50 citations
AJR provided numbers on mean observational quantities, (e.g., seeing), edited.


More than 1000 citations
AJR contributed than 1 month FTE on SDSS-III analysis.


More than 900 citations
AJR contributed than 1 month FTE on SDSS-III analysis.