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# Curriculum Vitae

## Idit Zehavi

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### Academic Positions

**Case Western Reserve University**, Cleveland, OH

Associate Professor, Department of Astronomy and Department of Physics 2014 –  
Assistant Professor, Department of Astronomy and Department of Physics 2006 – 2014

**Durham University**, Durham, UK

Visiting Academic, Institute for Computational Cosmology and Dept. of Physics 2015 –

**University of Arizona**, Tucson, AZ

Research Associate, Department of Astronomy and Steward Observatory 2003 – 2005

**University of Chicago**, Chicago, IL

Associate Fellow, Center for Cosmological Physics 2002 – 2003

Research Associate, Department of Astronomy and Astrophysics 2001 – 2003

Visiting Scholar, Department of Astronomy and Astrophysics 1998 – 2001

**Fermi National Accelerator Laboratory**, Batavia, IL

Research Associate, NASA/Fermilab Astrophysics group 1998 – 2001

**The Hebrew University of Jerusalem**, Jerusalem, IL

Research Assistant, Racah Institute of Physics 1993 – 1998

### Education

**The Hebrew University of Jerusalem**, Jerusalem, Israel

Ph.D. in Physics 1999

Thesis: *Implications of the Cosmological Velocity and Density Fields*

Advisor: Prof. Avishai Dekel, Racah Institute of Physics

M.Sc. in Physics 1996

Within the framework of studies toward a direct Ph.D.

B.Sc. in Mathematics and Physics 1993

*Summa cum laude*, in the ‘Amirim’ Program for outstanding students

Honors thesis: *Zero Modes of the Dirac Operator on the Lattice and in the Continuum*

### Research Interests

Large-Scale Structure of the Universe; Galaxy Formation and Evolution; Cosmology; Galaxy Surveys;  
Clustering of Galaxies; Galaxy-Halo Relation; Cosmic Flows

## Teaching

**Case Western Reserve University**, Cleveland, OH, 2006 –

Assistant/Associate Professor, Astronomy Department

Lecturer for varied Astronomy courses at different levels for undergraduate and graduate students, including: Stars & Planets; Galaxies & Cosmology; Cosmology and the Structure of the Universe; Stars, Galaxies and the Universe; The Perplexing Universe; Einstein's Universe

**The Hebrew University of Jerusalem**, Jerusalem, Israel, 1992 – 1998

Teaching Assistant, Racah Institute of Physics

Instructor for a variety of Physics courses for graduate, undergraduate students and non-physics majors, including: Astrophysics & Cosmology; Analytical Mechanics; Electricity & Magnetism

## Grants

NSF Astronomy and Astrophysics Research Grant, *On the Relation Between Galaxies and Dark Matter Halos*, 2016 – 2020, \$177,481 thus far, \$402,543 total expected (PI)

CWRU International Affairs Faculty Seed Grant, *Research Partnership with Two Universities in England and Chile*, 2016 – 2017, \$5,000 (PI)

CWRU ACES+ ADVANCE Opportunity Grant, *Exploring Research Opportunities in Galaxy Formation, Large-Scale Structure and Cosmology*, 2015 – 2016, \$4,500 (PI)

CWRU International Affairs Faculty Seed Grant, *Exchange and Collaboration between CWRU and HUJI*, 2014 – 2015, \$7,500 (co-I)

NSF Astronomy and Astrophysics Research Grant, *From Galaxy Clustering to Galaxy Formation and Evolution*, 2009 – 2013, \$332,605 (PI)

NASA/JPL Grant, *MIPS AGN and Galaxy Evolution Survey*, 2009 – 2012, \$6,000 (co-I)

## Selected Professional Activities

Co-organizer of international Mock Durham workshop *Galaxy Formation for Surveys*, 2018

Co-organizer of The 24th International Symposium on *Particle, Strings, and Cosmology*, 2018

Member of the Taipan Galaxy Survey Collaboration, 2017 –

Member of LSST Galaxies Science Collaboration, 2015 –

Member of LSST Dark Energy Science Collaboration, 2014 –

Member of LSST Large-Scale Structure Science Collaboration, 2009 – 2016

Member of SDSS-III Collaboration, particularly its BOSS survey, 2008 –

Member of SDSS-II Collaboration Council, 2005 – 2008

Member of SDSS (I/II) Collaboration, particularly its large-scale structure working group, 1999 –

Referee for MNRAS, Phys Lett B, PRL, A & A, ApJ, 2001 –

Member of Práctica Committee for student at Pontificia Universidad Católica de Chile, 2017

External Examiner for doctoral thesis of student at Monash University (Australia), 2014

Co-organizer of international symposium *The SDSS: From Asteroids to Cosmology*, 2008

Co-organizer of Aspen Center for Physics three-week workshop *Modeling Galaxy Clustering*, 2007

Member of Planetarium Advisory Council at Cleveland Museum of Natural History, 2009 – 2012

## Department and University Service

Member of CWRU's College of Arts and Science Graduate Committee, 2015 –

Member of CWRU's College of Arts and Science strategic planning Faculty Task Force, 2014

Member of CWRU's College of Arts and Sciences Committee on Educational Programs, 2009 – 2012  
Fellow of the Institute for the Science of Origins at CWRU, 2008 –  
Member of Center for Education and Research in Cosmology and Astrophysics at CWRU, 2006 –  
Member of three Faculty Search Committees in CWRU Astronomy and Physics Depts., 2010 – 2012  
CWRU Astronomy Department Graduate Recruitment Coordinator, 2009 – 2011, 2016 – 2017  
CWRU Astronomy Department Undergraduate Recruitment Coordinator, 2011 –  
Organizer of Astronomy Colloquia at CWRU, 2006 – 2008, 2014  
Organizer of Astronomy Journal Club at CWRU, 2007, 2009, 2011  
Member of CWRU Astronomy Department Graduate Admissions Committee, 2006 –  
Member of Graduate Prelim Committee, 2006, 2013, 2014, 2016  
Member of four Thesis Committees for CWRU Physics and Astronomy graduate students, 2010 –

## Honors

Thomson Reuters (Clarivate Analytics) Highly Cited Researchers list, 2014, 2015, 2016  
Nomination for the Carl F. Wittke Award for Excellence in Undergraduate Teaching, 2013  
Los Alamos National Lab postdoctoral fellowship, 2003 (opt to decline)  
European Commission Marie Curie TMR Research Training grant, 1998 (opt to decline)  
Wolf Foundation award for outstanding masters students, 1994  
Prof. Shimon Ofer prize for achievements in the M.Sc. studies, 1993  
Hebrew University Rector prize for outstanding M.Sc. students, 1993  
The Knesset (Israeli Parliament) scholastic excellence award, 1992  
Hebrew University Rector prize for outstanding undergraduate students, 1991  
Faculty of Science Dean's honor list, 1990, 1991

## Supervision<sup>1</sup>

M. Celeste Artale, postdoctoral scholar, *clustering and HOD in EAGLE*, U. Innsbruck, 2015 –  
Hong Guo, postdoctoral scholar, *clustering of galaxies in BOSS*, 2011 – 2012  
Santiago Patiri, postdoctoral scholar, *stellar mass assembly*, 2007 – 2009  
Sergio Contreras, graduate thesis, *HOD evolution and assembly bias*, Católica de Chile, 2015 – 2017  
Ashley Shukayr, graduate research project, *galactic conformity*, 2014  
Lei Yang, graduate research project, *clustering of LSB galaxies*, 2013 – 2014  
Thomas Reding, graduate research project, *clustering of lowz BOSS galaxies*, 2011 – 2012  
Zhibo Ma, graduate research project, *galaxy environments*, 2009  
Hee-Jong Seo, graduate research project, *passive evolution*, University of Arizona, 2005 – 2007  
Esteban Henriquez, Práctica research, *accurate HOD predictions*, Católica de Chile, 2017 –  
Stephen Kerby, undergraduate research, *environment-dependent clustering*, 2016 –  
Nicholas Smith, undergraduate capstone project, *HOD dependence on environment*, 2015 – 2016  
Christopher Baumann, undergraduate capstone project, *cosmology planetarium show*, 2015 – 2016  
Nathan Harmon, undergraduate research, *nature of green valley galaxies*, 2012 – 2013  
Wesley Peters, undergraduate research, *Fundamental-Plane relation in BOSS*, 2012  
Lauren Nicholson, undergraduate capstone project, *GalaxyZoo galaxy properties*, 2011 – 2012  
Hope Miller, undergraduate Seyfert fellow, *properties of BOSS galaxies*, 2011  
Steven Janowiecki, undergraduate capstone project, *nature of faint red galaxies*, 2007 – 2008

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<sup>1</sup>Students/postdocs supervised at CWRU unless otherwise noted

# List of Publications

## Publications Summary

Total of 103 refereed publications with more than 36,800 citations  
10 papers with 1000+ citations; 25 papers with 500+ citations; 53 papers with 100+ citations  
*h*-index of 66 (i.e., 66 publications with more than 66 citations)

## Publications in Refereed Journals<sup>2</sup>

108. **Zehavi, I.**, Contreras, S., Padilla, N., Smith, N. J., Baugh, C. M., & Norberg, P., *The Impact of Assembly Bias on the Galaxy Content of Dark Matter Halos*, *Astrophysical Journal (ApJ)*, 853, 84; arXiv:1706.07871
107. Xu, H., Zheng, Z., Guo, H., Zu, Y., **Zehavi, I.**, & Weinberg, D., *The Conditional Colour-Magnitude Distribution: I. A Comprehensive Model of the Colour-Magnitude-Halo Mass Distribution of Present-Day Galaxies*, *Monthly Notices of the Royal Astronomical Society (MNRAS)*, submitted (2018); arXiv:1801.07272
106. Anselmi, S., Corasaniti, P.-S., Starkman, G. D., Sheth, R. K., & **Zehavi, I.**, *The Linear Point Standard Ruler for Galaxy Survey Data: validation with mock catalogues*, *Physical Review D*, submitted (2017); arXiv:1711.09063
105. Gunawardhana, M. L. P., Norberg, P., **Zehavi, I.**, et al. (14 authors), *Galaxy and Mass Assembly (GAMA): the signatures of galaxy interactions as viewed from small scale galaxy clustering*, *MNRAS*, submitted (2017)
104. McCullagh, N., Norberg, P., Cole, S., Gonzalez-Perez, V., Baugh, C., Contreras, S., Helly, J., & **Zehavi, I.**, *Revisiting HOD Model Assumptions: the impact of AGN feedback and assembly bias*, *MNRAS*, submitted (2017)
103. Smith, A., Cole, S., Baugh, C., Zheng, Z., Angulo, R., Norberg, P., & **Zehavi, I.**, *A Lightcone Catalogue from the Millennium-XXL Simulation*, *MNRAS*, 470, 4646 (2017)
102. Artale, M. C., Pedrosa, S. E., Trayford, J. W., Theuns, T., Farrow, D. J., Norberg, P., **Zehavi, I.**, Bower, R. G., & Schaller, M., *Small-Scale Galaxy Clustering in the EAGLE Simulation*, *MNRAS*, 470, 1771 (2017)
101. Alam, S., et al. (73 authors), *The Clustering of Galaxies in the Completed SDSS-III Baryon Oscillation Spectroscopic Survey: Cosmological Analysis of the DR12 Galaxy Sample*, *MNRAS*, 470, 2617 (2017)
100. Ye, J., Guo, H., Zheng, Z., & **Zehavi, I.**, *Properties and Origin of Galaxy Velocity Bias in the Illustris Simulation*, *ApJ*, 841, 45 (2017)
99. Tinker, J. L., et al. (12 authors), *The Correlation Between Halo Mass and Stellar Mass for the Most Massive Galaxies in the Universe*, *ApJ*, 839, 121 (2017)

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<sup>2</sup>Students/postdocs directly supervised are denoted in italics

98. Contreras, S., **Zehavi, I.**, Baugh, C. M., Padilla, N., & Norberg, P., *The Evolution of the Galaxy Content of Dark Matter Haloes*, MNRAS, 465, 2833 (2017)
97. Anselmi, S., Starkman, G., Corasaniti, P., Sheth, R. K., & **Zehavi, I.**, *The Linear Point: A cleaner cosmological standard ruler*, Physical Review Letters, submitted (2017); arXiv:1703.01275
96. Guo, H., Zheng, Z., Behroozi, P. S., **Zehavi, I.**, et al. (12 authors), *Galaxy Three-Point Correlation Functions and Halo/Subhalo Models*, ApJ, 831, 3 (2016)
95. Mehrtens, N., et al. (29 authors), *The XMM Cluster Survey: The Halo Occupation Number of BOSS Galaxies in X-ray Clusters*, MNRAS, 463, 1929 (2016)
94. Xu, H., Zheng, Z., Guo, H., Zhu, J., & **Zehavi, I.**, *On the Clustering of Faint Red Galaxies*, MNRAS, 460, 3647 (2016)
93. Guo, H., Zheng, Z., Behroozi, P. S., **Zehavi, I.**, et al. (13 authors), *Modelling Galaxy Clustering: Halo Occupation Distribution versus Subhalo Matching*, MNRAS, 459, 3040 (2016)
92. Aubourg, E., et al. (93 authors), *Cosmological Implications of Baryon Acoustic Oscillation Measurements*, Physical Review D, 92, 123516 (2015)
91. Guo, H., Zheng, Z., **Zehavi, I.**, Behroozi, P. S., et al. (12 authors), *Redshift-Space Clustering of SDSS Galaxies - Luminosity Dependence, Halo Occupation Distribution, and Velocity Bias*, MNRAS, 453, 4368 (2015)
90. Alam, S., et al. (274 authors), *The Eleventh and Twelfth Data Releases of the Sloan Digital Sky Survey: Final Data from SDSS-III*, Astrophysical Journal Supplements (ApJS), 219, 12 (2015)
89. Guo, H., Zheng, Z., Jing, Y., **Zehavi, I.**, et al. (11 authors), *Modelling the Redshift-Space Three-Point Correlation Function in SDSS-III*, MNRAS Letters, 449, L95 (2015)
88. Guo, H., Zheng, Z., **Zehavi, I.**, Dawson, K., et al. (9 authors), *Velocity Bias from the Small Scale Clustering of SDSS-III BOSS Galaxies*, MNRAS, 446, 578 (2015)
87. Guo, H., Zheng, Z., **Zehavi, I.**, Xu, H., et al. (17 authors), *The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Modeling of the Luminosity and Colour Dependence in the Data Release 10*, MNRAS, 441, 2398 (2014)
86. Anderson, L., et al. (65 authors), *The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Baryon Acoustic Oscillations in the Data Release 10 and 11 Galaxy Samples*, MNRAS, 441, 24 (2014)
85. Sánchez, A. G., et al. (28 authors), *The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Cosmological Implications of the Full Shape of the Clustering Wedges in the Data Release 10 and 11 Galaxy Samples*, MNRAS, 440, 2692 (2014)
84. Samushia, L., et al. (30 authors), *The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Measuring Growth Rate and Geometry with Anisotropic Clustering*, MNRAS, 439, 3504 (2014)
83. Ahn, C. P., et al. (238 authors), *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 (2014)

82. Ross, A. J., et al. (30 authors), *The Clustering of Galaxies in the SDSS-III DR10 Baryon Oscillation Spectroscopic Survey: No Detectable Colour Dependence of Distance Scale or Growth Rate Measurements*, MNRAS, 437, 1109 (2014)
81. Shen, Y., et al. (24 authors), *Cross-Correlation of SDSS DR7 Quasars and DR10 BOSS Galaxies: The Weak Luminosity Dependence of Quasar Clustering at  $z \sim 0.5$* , ApJ, 778, 98 (2013)
80. Guo, H., **Zehavi, I.**, Zheng, Z., Weinberg, D. H., et al. (43 authors), *The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Luminosity and Color Dependence and Redshift Evolution*, ApJ, 767, 122 (2013)
79. Nuza, S. E., et al. (31 authors), *The Clustering of Galaxies at  $z \sim 0.5$  in the SDSS-III Data Release 9 BOSS-CMASS Sample: A Test for the  $\Lambda$ CDM Cosmology*, MNRAS, 432, 743 (2013)
78. Parejko, J. K., et al. (39 authors) *The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: The Low-Redshift Sample*, MNRAS, 429, 98 (2013)
77. Ross, A. J., et al. (39 authors), *The Clustering of Galaxies in the SDSS-III DR9 Baryon Oscillation Spectroscopic Survey: Constraints on Primordial Non-Gaussianity*, MNRAS, 428, 1116 (2013)
76. Dawson, K. S., et al. (165 authors), *The Baryon Oscillation Spectroscopic Survey of SDSS-III*, Astronomical Journal (AJ), 145, 10 (2013)
75. Anderson, L., et al. (77 authors), *The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Baryon Acoustic Oscillations in the Data Release 9 Spectroscopic Galaxy Sample*, MNRAS, 427, 3435 (2012)
74. Ahn, C. P., et al. (236 authors), *The Ninth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Baryon Oscillation Spectroscopic Survey*, ApJS, 203, 21 (2012)
73. Seo, H., et al. (34 authors), *Acoustic Scale from the Angular Spectra of SDSS-III DR8 Photometric Luminous Galaxies*, ApJ, 761, 13 (2012)
72. Reid, B. A., et al. (47 authors), *The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Measurements of the Growth of Structure and Expansion Rate at  $z = 0.57$  from Anisotropic Clustering*, MNRAS, 426, 2719 (2012)
71. Sánchez, A. G., et al. (56 authors), *The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Cosmological Implications of the Large-Scale Two-Point Correlation Function*, MNRAS, 425, 415 (2012)
70. Guo, H., **Zehavi, I.**, & Zheng, Z., *A New Method to Correct for Fiber Collisions in Galaxy Two-Point Statistics*, ApJ, 756, 127 (2012)
69. White, M., et al. (31 authors), *The Clustering of Intermediate-Redshift Quasars as Measured by the Baryon Oscillation Spectroscopic Survey*, MNRAS, 424, 933 (2012)
68. Ross, A. J., et al. (42 authors), *The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Analysis of Potential Systematics*, MNRAS, 424, 564 (2012)

67. Tojeiro, R., Percival, W., Wake, D. A., Maraston, C., Skibba, R. A., **Zehavi, I.**, Ross, A. J., et al. (26 authors), *The Progenitors of Present-Day Massive Red Galaxies up to  $z \simeq 0.7$  - Finding Passive Galaxies using SDSS-I/II and SDSS-III*, MNRAS, 424, 136 (2012)
66. Skibba, R. A., Masters, K. L., Nichol, R. C., **Zehavi, I.**, Hoyle, B., Edmondson, E. M., Bamford, S. P., Cardamone, C. N., Keel, W. C., Lintott, C., Schawinski, *Galaxy Zoo: The Environmental Dependence of Bars and Bulges in Disc Galaxies*, MNRAS, 423, 1485 (2012)
65. **Zehavi, I.**, Patiri, S., & Zheng, Z., *The Growth of Galaxy Stellar Mass Within Dark Matter Halos*, ApJ, 746, 145 (2012)
64. Tinker, J., Sheldon, E. S., Wechsler, R. H., Becker, M. R., Rozo, E., Ying, Z., Weinberg, D. H., **Zehavi, I.**, Blanton, M. R., Busha, M. T., & Koester, B. P., *Cosmological Constraints from Galaxy Clustering and the Mass-to-Number Ratio of Galaxy Clusters*, ApJ, 745, 16 (2012)
63. Ross, A. J., et al. (32 authors), *Ameliorating Systematic Uncertainties in the Angular Clustering of Galaxies: A Study Using the SDSS-III*, MNRAS, 417, 1350 (2011)
62. Eisenstein, D. J., et al. (244 authors), *SDSS-III: Massive Spectroscopic Surveys of the Distant Universe, the Milky Way Galaxy, and Extra-Solar Planetary Systems*, AJ, 142, 72 (2011)
61. **Zehavi, I.**, Zheng, Z., Weinberg, D. H., et al. (17 authors), *Galaxy Clustering in the Completed SDSS Redshift Survey: The Dependence on Color and Luminosity*, ApJ, 736, 59 (2011)
60. Aihara, H., et al. (180 authors), *The Eighth Data Release of the Sloan Digital Sky Survey: First Data from SDSS-III*, ApJS, 193, 29 (2011)
59. White, M., et al. (28 authors), *The Clustering of Massive Galaxies at  $z \sim 0.5$  from the First Semester of BOSS Data*, ApJ, 728, 126 (2011)
58. McBride, C. K., Connolly, A. J., Gardner, J. P., Scranton, R., Newman, J. A., Scoccimarro, R., **Zehavi, I.**, & Schneider, D. P., *Three-Point Correlation Functions of SDSS Galaxies: Luminosity and Color Dependence in Redshift and Projected Space*, ApJ, 726, 13 (2011)
57. Reid, B. A., et al. (30 authors), *Cosmological Constraints from the Clustering of the Sloan Digital Sky Survey DR7 Luminous Red Galaxies*, MNRAS, 404, 60 (2010)
56. Percival, W. J., et al. (28 authors), *Baryon Acoustic Oscillations in the Sloan Digital Sky Survey Data Release 7 Galaxy Sample*, MNRAS, 401, 2148 (2010)
55. Zheng, Z., **Zehavi, I.**, Eisenstein, D. J., Weinberg, D. H., & Jing, Y., *Halo Occupation Distribution Modeling of Clustering of Luminous Red Galaxies*, ApJ, 707, 554 (2009)
54. Abazajian, K. N., et al. (204 authors), *The Seventh Data Release of the Sloan Digital Sky Survey*, ApJS, 182, 543 (2009)
53. Sheth, R. K., & **Zehavi, I.**, *Linear Theory and Velocity Correlations of Clusters*, MNRAS, 394, 1459 (2009)
52. Seo, H., Eisenstein, D. J., & **Zehavi, I.**, *Passive Evolution of Galaxy Clustering*, ApJ, 681, 998 (2008)

51. Swanson, M. E. C., Tegmark, M., Blanton, M. R., & **Zehavi, I.**, *SDSS Galaxy Clustering: Luminosity & Color Dependence and Stochasticity*, MNRAS, 385, 1635 (2008)
50. Adelman-McCarthy, J. K., et al. (163 authors), *The Sixth Data Release of the Sloan Digital Sky Survey*, ApJS, 175, 297 (2008)
49. Adelman-McCarthy, J. K., et al. (154 authors), *The Fifth Data Release of the Sloan Digital Sky Survey*, ApJS, 172, 634 (2007)
48. Zheng, Z., Coil, A. L., & **Zehavi, I.**, *Galaxy Evolution from Halo Occupation Distribution Modeling of DEEP2 and SDSS Galaxy Clustering*, ApJ, 667, 760 (2007)
47. Percival, W. J., et al. (17 authors), *The Shape of the Sloan Digital Sky Survey Data Release 5 Galaxy Power Spectrum*, ApJ, 657, 645 (2007)
46. Percival, W. J., et al. (15 authors), *Measuring the Matter Density Using Baryon Oscillations in the Sloan Digital Sky Survey*, ApJ, 657, 51 (2007)
45. Tegmark, M., et al. (67 authors); *Cosmological Constraints from the SDSS Luminous Red Galaxies*, Physical Review D, 74, 123507 (2006)
44. Berlind, A. A., et al. (20 authors), *Percolation Galaxy Groups and Clusters in the SDSS Redshift Survey: Identification, Catalogs and Multiplicity Function*, ApJS, 167, 1 (2006)
43. Blanton, M. R., Eisenstein, D. J., Hogg, D. W., & **Zehavi, I.**, *The Scale-Dependence of the Relative Galaxy Bias: Encouragement for the “Halo Model” Description*, ApJ, 645, 977 (2006)
42. Nichol, R. C., et al. (24 authors), *The Effect of Large-Scale Structure on the SDSS Galaxy Three-Point Correlation Function*, MNRAS, 368, 1507 (2006)
41. Masjedi, M., Hogg, D. W., Cool, R. J., Eisenstein, D. J., Blanton, M. R., **Zehavi, I.**, Berlind, A. A., Bell, E. F., Schneider, D. P., Warren, M. S., & Brinkmann, J., *Very Small-Scale Clustering and Merger Rate of Luminous Red Galaxies*, ApJ, 644, 54 (2006)
40. Jiang, L., Xiaohui, F., Cool, R. J., Eisenstein, D. J., **Zehavi, I.**, Richards, G. T., Scranton, R., Johnston, D., Strauss, M. A., Schneider, D. P., & Brinkmann, J., *A Spectroscopic Survey of Faint Quasars in the SDSS Deep Stripe: I. Preliminary Result from the Co-added Catalog*, AJ, 131, 2788 (2006)
39. Cool, R. J., Eisenstein, D. J., Johnston, D., Scranton, R., Brinkmann, J., Schneider, D. P., & **Zehavi, I.**, *Broadband Optical Properties of Massive Galaxies: The Dispersion Around the Field Galaxy Color-Magnitude Relation out to  $z \sim 0.4$* , AJ, 131, 736 (2006)
38. Adelman-McCarthy, J. K., et al. (141 authors), *The Fourth Data Release of the Sloan Digital Sky Survey*, ApJS, 162, 38 (2006)
37. Eisenstein, D. J., **Zehavi, I.**, Hogg, D. W., Scoccimarro, R., Blanton, M. R., et al. (48 authors), *Detection of the Baryonic Acoustic Peak in the Large-Scale Correlation Function of SDSS Luminous Red Galaxies*, ApJ, 633, 560 (2005)
36. Tinker, J. L., Weinberg, D. H., Zheng, Z., & **Zehavi, I.**, *On the Mass-to-Light Ratio of Large Scale Structure*, ApJ, 631, 41 (2005)



35. **Zehavi, I.**, Zheng, Z., Weinberg, D. H., Frieman, J. A., Berlind, A. A., Blanton, M. R., et al. (28 authors), *The Luminosity and Color Dependence of the Galaxy Correlation Function*, ApJ, 630, 1 (2005)
34. Abazajian, K. N., Zheng, Z., **Zehavi, I.**, Weinberg, D. H., Frieman, J. A., Berlind, A. A., Blanton, M. R., Bahcall, N. A., Brinkmann, J., Schneider, D. P., & Tegmark, M., *Cosmology and the Halo Occupation Distribution from Small-Scale Galaxy Clustering in The Sloan Digital Sky Survey*, ApJ, 625, 613 (2005)
33. Blanton, M. R., et al. (15 authors), *NYU-VAGC: A Galaxy Catalog Based on New Public Surveys*, AJ, 129, 2562 (2005)
32. **Zehavi, I.**, Eisenstein, D. J., Nichol, R. C., Blanton, M. R., Hogg, D. W., Brinkman, J., Loveday, J., Meiksin, A., Schneider, D. P., & Tegmark, M., *The Intermediate-Scale Clustering of Luminous Red Galaxies*, ApJ, 621, 22 (2005)
31. Abazajian, K. N., et al. (155 authors), *The Third Data Release of the Sloan Digital Sky Survey*, AJ, 129, 1755 (2005)
30. Eisenstein, D. J., Blanton, M. R., **Zehavi, I.**, Bahcall, N. A., Brinkmann, J., Meiksin, A., Loveday, J., & Schneider, D. P., *The Small-Scale Clustering of Luminous Red Galaxies via Cross-Correlation Techniques*, ApJ, 619, 178 (2005)
29. Finkbeiner, D. P., et al. (89 authors), *Sloan Digital Sky Survey Imaging of Low Galactic Latitude Fields: Technical Summary and Data Release*, AJ, 128, 2577 (2004)
28. Abazajian, K., et al. (153 authors), *The Second Data Release of the Sloan Digital Sky Survey*, AJ, 128, 502 (2004)
27. **Zehavi, I.**, Weinberg D. H., Zheng, Z., Berlind, A. A., Frieman, J. A., et al. (29 authors), *On Departures from a Power Law in the Galaxy Correlation Function*, ApJ, 608, 16 (2004)
26. Pope, A. C., et al. (26 authors), *Cosmological Parameters from Eigenmode Analysis of the Sloan Digital Sky Survey Galaxy Redshifts*, ApJ, 607, 655 (2004)
25. Tegmark, M., Strauss, M. A., Blanton, M. R., Abazajian, K., Dodelson, S., Sandvik, H., Wang, X., Weinberg, D. H., **Zehavi, I.**, Bahcall, N. A., et al. (67 authors), *Cosmological Parameters from SDSS and WMAP*, Physical Review D, 69, 103501 (2004)
24. Tegmark, M., Blanton, M. R., Strauss, M. A., Hoyle, F., Schlegel, D., Schocimarro, R., Vogeley, M. S., Weinberg, D. H., **Zehavi, I.**, Berlind, A., et al. (66 authors), *The Three-Dimensional Power Spectrum of Galaxies from the Sloan Digital Sky Survey*, ApJ, 606, 702 (2004)
23. Sheldon, E. S., Johnston, D. E., Frieman, J. A., Scranton, R., McKay, T. A., Connolly, A. J., Budavari, T., **Zehavi, I.**, Bahcall, N. A., Brinkmann, J., & Fukugita, M., *The Galaxy-Mass Correlation Function Measured from Weak Lensing in the SDSS*, AJ, 127, 2544 (2004)
22. Firneisz, G., **Zehavi, I.**, Vermes, C., Hanyecz, A., Frieman, J. A., & Glant, T., *Identification and Quantification of Disease-Related Gene Clusters*, Bioinformatics, 19, 1781 (2003)
21. Abazajian, K., et al. (189 authors), *The First Data Release of the Sloan Digital Sky Survey*, AJ, 126, 2081 (2003)

20. Budavari, T., et al. (21 authors), *Angular Clustering with Photometric Redshifts in the Sloan Digital Sky Survey*, ApJ, 595, 59 (2003)
19. Szalay, A., et al. (48 authors), *KL Estimation of the Power Spectrum Parameters from the Angular Distribution of Galaxies in Early SDSS Data*, ApJ, 591, 1 (2003)
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