

# RENBIN YAN

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## • EDUCATION

- Ph.D.**, Astrophysics, **University of California at Berkeley** 2007  
 Dissertation: *Studies of Galaxy Evolution with Redshift Surveys*  
 Advisors: Marc Davis, Martin White
- B.S.**, Physics, **Peking University**, China 2001

## • RESEARCH AND TEACHING POSITIONS

- |                                             |                              |                |
|---------------------------------------------|------------------------------|----------------|
| <b>New York University</b>                  | Assistant Research Scientist | 2010 – present |
| <b>University of Toronto</b>                | Ontario Postdoctoral Fellow  | 2007 – 2010    |
| <b>University of California at Berkeley</b> | Research Assistant           | 2002 – 2007    |
| <b>University of California at Berkeley</b> | Graduate Student Instructor  | 2002 – 2003    |
- Taught discussion sections for *Introduction to Astrophysics (for majors)*  
 and *Introduction to General Astronomy (for non-majors)*

## • RESEARCH INTERESTS

Galaxy formation and evolution, Active galactic nuclei, Interstellar medium,  
 Large-scale structure and galaxy clusters, Multi-wavelength studies of galaxies,  
 Tools for automated data reduction and analysis.

## • FELLOWSHIPS AND AWARDS

- Ontario Postdoctoral Fellowship 2007
- UC Berkeley Regents Fellowship 2001-2002
- Peking University Academic Excellence Award 2000

## • GRANTS

- CoI, Chandra X-ray Observatory Program, #10800857, 2008, \$89K
- CoI, Chandra X-ray Observatory Program, #12700605, 2010, \$45K

## • SELECTED COLLOQUIUM AND CONFERENCE TALKS

- Seminar at University of California, San Diego (invited) Oct. 2011
- Colloquium at University of Toronto, Canada (invited) Oct. 2011
- From Massive Galax Formation to Dark Energy, Kashiwa, Japan Jun. 2010
- Galaxy Clusters in the Early Universe, Pucon, Chile Nov. 2009
- AGN-Starburst Connection Conference, Shanghai, China Oct. 2008
- Galaxy and Black Hole Evolution, Tucson, AZ (invited) Nov. 2007
- Massive Galaxies Over Cosmic Time 2, Tucson, AZ Nov. 2006
- Cosmic Frontiers Conference, Durham, UK Aug. 2006

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## PUBLICATIONS

### SINGLE- and FIRST-AUTHOR PUBLICATIONS

7. **Renbin Yan**, Michael R. Blanton, “The Nature of LINER-like Emission in Red Galaxies”, 2011, *Astrophys. J.*, submitted, arXiv:1109.1280
6. **Renbin Yan**, “Precision Spectrophotometry at the Level of 0.1%”, 2011, *Astron. J.*, 142, 153; arXiv:1107.5040
5. **Renbin Yan**, et al., “AEGIS: Demographics of X-ray and Optically Selected Active Galactic Nuclei”, 2011, *Astrophys. J.*, 728, 38
4. **Renbin Yan**, et al., “The DEEP2 Galaxy Redshift Survey: Environments of Poststarburst Galaxies at  $z \sim 0.1$  and  $z \sim 0.8$ ”, 2009, *MNRAS*, 398, 735
3. **Renbin Yan**, Jeffrey A. Newman, S.M. Faber, Nicholas Konidaris, David Koo, Marc Davis, “On the Origin of [OII] Emission in Red Sequence and Post-starburst Galaxies”, 2006, *Astrophys. J.*, 648, 281
2. **Renbin Yan**, Martin White, Alison L. Coil, “Mock Catalogs for the DEEP2 Redshift Survey”, 2004, *Astrophys. J.*, 607, 739
1. **Renbin Yan**, Darren S. Madgwick, & Martin White, “Constraining Evolution in the Halo Model using Galaxy Redshift Surveys”, 2003, *Astrophys. J.*, 598, 848

### CO-AUTHORED REFEREEED PUBLICATIONS

37. Cooper, Michael C. et al., “The DEEP3 Galaxy Redshift Survey: The Impact of Environment on the Size Evolution of Massive Early-type Galaxies at Intermediate Redshift”, *MNRAS*, accepted, arXiv: 1109.5698
36. Trump, Jonathan R. et al., “A CANDELS WFC3 Grism Study of Emission-Line Galaxies at  $z \sim 2$ : A Mix of Nuclear Activity and Low-Metallicity Star Formation”, *Astrophys. J.*, accepted, (2011)
35. Coil, Alison L., Weiner, Benjamin J., Holz, Daniel E., Cooper, Michael C., **Yan, Renbin**, Aird, James, “Outflowing Galactic Winds in Post-starburst and AGN Host Galaxies at  $0.2 < z < 0.8$ ”, *Astrophys. J.*, accepted, (2011)
34. Cheng, Judy Y., Faber, S. M., Simard, Luc, Graves, Genevieve J., Lopez, Eric D., **Yan, Renbin**, Cooper, Michael C., “Automated morphological classification of Sloan Digital Sky Survey red sequence galaxies”, *MNRAS*, 412, 727; (2011)
33. Cooper, Michael C. et al., “The DEEP3 Galaxy Redshift Survey: Keck/DEIMOS Spectroscopy in the GOODS-N field”, *Astrophys. J. Supp.*, 193, 14 (2011).

32. Cooper, Michael C. et al., “Absence of evidence is not evidence of absence: the colour-density relation at fixed stellar mass persists to  $z \sim 1$ ”, *MNRAS*, 409, 337 (2010)
31. Lin, Lihwai et al., “Where do Wet, Dry, and Mixed Galaxy Mergers Occur? A Study of the Environments of Close Galaxy Pairs in the DEEP2 Galaxy Redshift Survey”, *Astrophys. J.*, 718, 1158 (2010)
30. Pierce, C. M. et al., “The Effects of an Active Galactic Nucleus on Host Galaxy Colour and Morphology Measurements”, *MNRAS*, 405, 718; (2010)
29. Cooper, Michael C., Gallazzi, Anna, Newman, Jeffrey A., **Yan, Renbin**, “Galaxy Assembly Bias on the Red Sequence”, *MNRAS*, 402, 1942; (2010)
28. Cooper, Michael C., Newman, Jeffrey A., **Yan, Renbin**, “The Large-scale Environments of Type Ia Supernovae: Evidence for a Metallicity Bias in the Rate or Luminosity of Prompt Ia Events”, *Astrophys. J.*, 704, 687 (2009).
27. Coil, Alison L. et al. “AEGIS: The Clustering of X-Ray Active Galactic Nucleus Relative to Galaxies at  $z < 1$ ”, *Astrophys. J.*, 701, 1484 (2009)
26. Comerford, Julia M. et al. “Inspiralling Supermassive Black Holes: A New Signpost for Galaxy Mergers”, *Astrophys. J.*, 698, 956 (2009).
25. Montero-Dorta, Antonio D., Croton, Darren J., **Yan, Renbin**, et al. “The DEEP2 Galaxy Redshift Survey: the red sequence AGN fraction and its environment and redshift dependence”, *MNRAS*, 392, 125 (2009).
24. Liu, Hanyu Baobab, Hsieh, B. C., Ho, Paul T. P., Lin, Lihwai, **Yan, Renbin**, “A New Galaxy Group Finding Algorithm: Probability Friends-of-Friends”, *Astrophys. J.*, 681, 1046 (2008).
23. Bundy, Kevin et al. “AEGIS: New Evidence Linking Active Galactic Nuclei to the Quenching of Star Formation”, *Astrophys. J.*, 681, 931 (2008)
22. Georgakakis, A., Nandra, K., **Yan, R.**, et al., “The role of AGN in the colour transformation of galaxies at redshifts  $z < 1$ ”, *MNRAS*, 385, 2049, (2008)
21. Cooper, Michael C., Newman, Jeffrey A., Weiner, Benjamin J., **Yan, Renbin**, et al., “The DEEP2 Galaxy Redshift Survey: the role of galaxy environment in the cosmic star formation history”, *MNRAS*, 383, 1058 (2008)
20. Graves, Genevieve J., Faber, S. M., Schiavon, Ricardo P., **Yan, Renbin**, “Ages and Abundances of Red Sequence Galaxies as a Function of LINER Emission Line Strength”, *Astrophys. J.*, 671, 243 (2007)
19. Wilson, G., Huang, J. S., Fazio, G. G., **Yan, R.**, et al., “AEGIS: A Panchromatic Study of IRAC-selected Extremely Red Objects with Confirmed Spectroscopic Redshifts”, *Astrophys. J. Lett.*, 660, 59; astro-ph/0608447; (2007)

18. Gerke, Brian F., Newman, Jeffrey A., Lotz, Jennifer, **Yan, Renbin**, et al., “The DEEP2 Galaxy Redshift Survey: AEGIS Observations of a Dual AGN at  $z=0.7$ ”, *Astrophys. J. Lett.*, 660, 23; astro-ph/0608380; (2007)
17. Cooper, Michael C. et al., “The DEEP2 Galaxy Redshift Survey: Evolution of the Color-Density Relation at  $0.4 < z < 1.35$ ”, *M.N.R.A.S.*, 376, 1445; astro-ph/0607512; (2007)
16. Gerke, Brian F. et al., “The DEEP2 Galaxy Redshift Survey: The Evolution of the Blue Fraction in Groups and the Field”, *M.N.R.A.S.*, 376, 1425; astro-ph/0608569; (2007)
15. Weiner, Benjamin J. et al. “AEGIS: Extinction and Star Formation Tracers From Line Emission”, *Astrophys. J. Lett.*, 660, 39; (2007)
14. Fang, T. et al., “AEGIS: Chandra Observation of DEEP2 Galaxy Groups and Clusters”, *Astrophys. J. Lett.*, 660, 27; astro-ph/0608382; (2007)
13. Davis, M. et al., “The All-wavelength Extended Groth Strip International Survey (AEGIS) Data Sets”, *Astrophys. J. Lett.*, 660, 1; astro-ph/0607355; (2007)
12. Faber, S. M. et al., “Galaxy Luminosity Functions to  $z$  1: DEEP2 vs. COMBO-17 and Implications for Red Galaxy Formation”, *Astrophys. J.*, 665, 265; (2007)
11. Conroy, Charlie, et al., “Evolution in the Halo Masses of Isolated Galaxies between  $z \sim 1$  and  $z \sim 0$ : From DEEP2 to SDSS”, *Astrophys. J.*, 654, 153; astro-ph/0607204;(2007)
10. Schiavon, Ricardo P. et al., “The DEEP2 Galaxy Redshift Survey: Mean Ages and Metallicities of Red Field Galaxies at  $z \sim 0.9$  from Stacked Keck/DEIMOS Spectra”, *Astrophys. J. Lett.*, 651, 93; astro-ph/0602248; (2006)
9. Willmer, C. N. A. et al., “The DEEP2 Redshift Survey: The Galaxy Luminosity Function to  $z \sim 1$ ”, *Astrophys. J.*, 647, 853; astro-ph/0506041 (2006).
8. Coil, Alison L. et al., “The DEEP2 Galaxy Redshift Survey: Clustering of Groups and Group Galaxies at  $z \sim 1$ ”, *Astrophys. J.*, 638, 668; astro-ph/0507647 (2006).
7. Conroy, Charlie et al., “The DEEP2 Galaxy Redshift Survey: The Evolution of Void Statistics from  $z \sim 1$  to  $z \sim 0$ ”, *Astrophys. J.*, 635, 990; astro-ph/0508250 (2005).
6. Conroy, Charlie et al., “The DEEP2 Galaxy Redshift Survey: Probing the Evolution of Dark Matter Halos around Isolated Galaxies at  $z \sim 1$ ”, *Astrophys. J.*, 635, 982; astro-ph/0409305 (2005).
5. Cooper, Michael C., Newman, Jeffrey A., Madgwick, Darren S., Gerke, Brian F., **Yan, Renbin**, Davis, Marc “Measuring Galaxy Environments with Deep Redshift Surveys”, *Astrophys. J.*, 634, 833; astro-ph/0506518 (2005).

4. Gerke, Brian F. et al., “The DEEP2 Galaxy Redshift Survey: First results on galaxy groups”, *Astrophys. J.*, 625, 6; astro-ph/0410721 (2005).
3. Lin, Lihwai et al., “The DEEP2 Galaxy Redshift Survey: Evolution of Close Galaxy Pairs and Major-Merger Rates up to  $z \sim 1.2$ ”, *Astrophys. J. Lett.*, 617, 9 (2004).
2. Coil, Alison L. et al., “The DEEP2 Galaxy Redshift Survey: Clustering of Galaxies in Early Data”, *Astrophys. J.*, 609, 525 (2004).
1. Madgwick, Darren S. et al., “The DEEP2 Galaxy Redshift Survey: Spectral Classification of Galaxies at  $z \sim 1$ ”, *Astrophys. J.*, 599, 997 (2003).