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EDUCATION:

<b>Ph.D.</b> , Astrophysics, <b>University of California at Berkeley</b>	2007
Dissertation: <i>Studies of Galaxy Evolution with Redshift Surveys</i>	
<b>M.A.</b> , Astrophysics, <b>University of California at Berkeley</b>	2003
<b>B.S.</b> , Physics, <b>Peking University, China</b>	2001

RESEARCH AND TEACHING POSITIONS:

<b>Ontario Postdoctoral Fellow</b>	University of Toronto	2007 – present
Supervisor: Howard K.C. Yee		
<b>Graduate Student Researcher</b>	University of California at Berkeley	2004 – 2007
Advisor: Marc Davis		
<b>Graduate Student Researcher</b>	University of California at Berkeley	2002 – 2004
Advisor: Martin White		
<b>Graduate Student Instructor</b>	University of California at Berkeley	2002 – 2003
Astro 7 with Eliot Quataert and Astro 10 with Alex Filippenko		

RESEARCH INTERESTS:

Galaxy formation and evolution; AGN identification and diagnostics;  
AGN-host galaxy co-evolution; Post-starburst (E+A, K+A) Galaxies;  
Large-Scale Structure and Galaxy Clusters; Multiwavelength studies of galaxies;  
Tools for automated data reduction and analysis.

FELLOWSHIPS AND AWARDS:

Ontario Postdoctoral Fellowship	2007-2010
UC Berkeley Regents Fellowship	2001-2002
Peking University Academic Excellence Award	2000

OBSERVING EXPERIENCE:

- Keck/DEIMOS multi-object spectroscopy ~ 21 nights
- Magellan/IMACS multi-object spectroscopy 2 nights
- Gemini GMOS Queue-observing Phase-II Preparation

GRANT AND PROPOSAL ACTIVITIES:

PI of one Subaru/MOIRCS proposal (2007) and one Gemini/GMOS proposal (2008).  
Co-I and principal author of three HST/ACS proposals (2004-2006)

MAJOR CONFERENCE TALKS:

Cosmic Frontiers Conference, Durham, UK		Aug. 2006
Massive Galaxies Over Cosmic Time 2, Tucson, AZ		Nov. 2006
Galaxy and Black Hole Evolution, Tucson, AZ	(invited talk)	Nov. 2007
AGN-Starburst Connection Conference, Shanghai, China		Oct. 2008

PROFESSIONAL SOCIETIES AND SOCIAL ACTIVITIES:

American Astronomical Society	Member	since 2003
Berkeley Chinese Students and Scholars Association	Vice President	2004-2005

**REFERENCES**

Marc Davis  
Professor of Physics and Astronomy  
Department of Astronomy  
University of California, Berkeley  
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Sandra M. Faber  
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## PUBLICATIONS

### FIRST-AUTHOR PUBLICATIONS

- Renbin Yan**, Jeffrey A. Newman, 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
- 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
- Renbin Yan**, Martin White, Alison L. Coil, “Mock Catalogs for the DEEP2 Redshift Survey”, 2004, *Astrophys. J.*, 607, 739
- Renbin Yan**, Darren S. Madgwick, & Martin White, “Constraining Evolution in the Halo Model using Galaxy Redshift Surveys”, 2003, *Astrophys. J.*, 598, 848

### OTHER REFEREED PUBLICATIONS

- Michael C. Cooper, Anna Gallazzi, Jeffrey A. Newman, **Renbin Yan**, “Galaxy Assembly Bias on the Red Sequence”, *MNRAS*, submitted, (2009)
- Michael C. Cooper, Jeffrey A. Newman, **Renbin Yan**, “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).
- Julia M. Comerford, Brian F. Gerke, Jeffrey A. Newman, Marc Davis, **Renbin Yan**, Michael C. Cooper, S. M. Faber, David C. Koo, Alison L. Coil, D. J. Rosario, Aaron A. Dutton, “Inspiralling Supermassive Black Holes: A New Signpost for Galaxy Mergers”, *Astrophys. J.*, 698, 956 (2009).
- Antonio D. Montero-Dorta, Darren J. Croton, **Renbin Yan**, Michael C. Cooper, Jeffrey A. Newman, Antonis Georgakakis, Francisco Prada, Marc Davis, Kirpal Nandra, Alison Coil, “The DEEP2 Galaxy Redshift Survey: the red sequence AGN fraction and its environment and redshift dependence”, *MNRAS*, 392, 125 (2009).
- Alison L. Coil, Antonis Georgakakis, Jeffrey A. Newman, Michael C. Cooper, Darren Croton, Marc Davis, David C. Koo, Elise S. Laird, Kirpal Nandra, Benjamin J. Weiner, Christopher N. A. Willmer, **Renbin Yan**, “AEGIS: The Clustering of X-Ray Active Galactic Nucleus Relative to Galaxies at  $z \sim 1$ ”, *Astrophys. J.*, 701, 1484 (2009)
- Hanyu Baobab Liu, B.C. Hsieh, Paul T.P. Ho, Lihwai Lin, **Renbin Yan**, “A New Galaxy Group Finding Algorithm: Probability Friends-of-Friends”, *Astrophys. J.*, 681, 1046 (2008).
- A. Georgakakis, K. Nandra, **R. Yan**, S.P. Willner, J. M. Lotz, C.M. Pierce, M.C. Cooper, E. S. Laird, D.C. Koo, P. Barmby, “The role of AGN in the colour transformation of galaxies at redshifts  $z \sim 1$ ”, *MNRAS*, 385, 2049, (2008)
- Michael C. Cooper, Jeffrey A. Newman, Benjamin J. Weiner, **Renbin Yan**, Chirstopher N. A. Willmer, Kevin Bundy, Alison L. Coil, Christopher J. Conselice, Marc Davis, S.M. Faber, Brian F. Gerke, Puragra Guhathakurta, David C. Koo, Kai G. Noeske,

- “The DEEP2 Galaxy Redshift Survey: the role of galaxy environment in the cosmic star formation history”, *MNRAS*, 383, 1058 (2008)
- Kevin Bundy, Antonis Georgakakis, Kirpal Nandra, Richard S. Ellis, Christopher J. Conselice, Elise Laird, Alison Coil, Michael C. Cooper, Sandra M. Faber, Jeffrey A. Newman, Christy M. Pierce, Joel R. Primack, **Renbin Yan**, “AEGIS: New Evidence Linking Active Galactic Nuclei to the Quenching of Star Formation”, *Astrophys. J.*, 681, 931 (2008)
- Genevieve J. Graves, Sandra M. Faber, Ricardo P. Schiavon, **Renbin Yan**, “Ages and Abundances of Red Sequence Galaxies as a Function of LINER Emission Line Strength”, *Astrophys. J.*, 671, 243 (2007)
- G. Wilson, J. S. Huang, G. G. Fazio, **R. Yan**, A. M. Koekemoer, S. Salim, S. M. Faber, J. Lotz, C. N. A. Willmer, M. Davis, A. L. Coil, J. A. Newman, C. J. Conselice, C. Papovich, M. L. N. Ashby, P. Barmby, S. P. Willner, R. Ivison, S. Miyazaki, D. Rigopoulou, “AEGIS: A Panchromatic Study of IRAC-selected Extremely Red Objects with Confirmed Spectroscopic Redshifts”, *Astrophys. J. Lett.*, 660, 59; astro-ph/0608447; (2007)
- Brian F. Gerke, Jeffrey A. Newman, Jennifer Lotz, **Renbin Yan**, P. Barmby, Alison L. Coil, Christopher J. Conselice, R. J. Ivison, Lihwai Lin, David C. Koo, Kirpal Nandra, Samir Salim, Todd Small, Benjamin J. Weiner, Michael C. Cooper, Marc Davis, S. M. Faber, Puragra Guhathakurta, “The DEEP2 Galaxy Redshift Survey: AEGIS Observations of a Dual AGN at  $z=0.7$ ”, *Astrophys. J. Lett.*, 660, 23; astro-ph/0608380; (2007)
- Michael C. Cooper, Jeffrey A. Newman, Alison L. Coil, Darren J. Croton, Brian F. Gerke, **Renbin Yan**, Marc Davis, S. M. Faber, Puragra Guhathakurta, David C. Koo, Benjamin J. Weiner, Christopher N.A. Willmer, “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)
- Brian F. Gerke, Jeffrey A. Newman, S. M. Faber, Michael C. Cooper, Darren J. Croton, Marc Davis, Christopher N. A. Willmer, **Renbin Yan**, Alison L. Coil, Puragra Guhathakurta, David C. Koo, Benjamin J. Weiner, “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)
- Benjamin J. Weiner, Casey Papovich, K. Bundy, C. J. Conselice, M. C. Cooper, R.S. Ellis, R.J. Ivison, K. G. Noeske, A. C. Phillips, **Renbin Yan**, “AEGIS: Extinction and Star Formation Tracers From Line Emission”, *Astrophys. J. Lett.*, 660, 39; (2007)
- T. Fang, B. Gerke, D. Davis, J. Newman, M. Davis, K. Nandra, E. Laird, D. Koo, A. Coil, M. Cooper, D. Croton, **R. Yan**, “AEGIS: Chandra Observation of DEEP2 Galaxy Groups and Clusters”, *Astrophys. J. Lett.*, 660, 27; astro-ph/0608382; (2007)
- M. Davis, P. Guhathakurta, N. Konidakis, J. A. Newman, M. L. N. Ashby, A. D. Biggs, P. Barmby, K. Bundy, S. Chapman, A. L. Coil, C. Conselice, M. Cooper, D. Croton, P. Eisenhardt, R. Ellis, S. Faber, T. Fang, G. G. Fazio, A. Georgakakis, B. Gerke, W. M. Goss, S. Gwyn, J. Harker, A. Hopkins, J.-S. Huang, R. J. Ivison, S. A. Kassin,

- E. Kirby, A. Koekemoer, D. C. Koo, E. Laird, E. Le Floch, L. Lin, J. Lotz, P. J. Marshall, D. C. Martin, A. Metevier, L. A. Moustakas, K. Nandra, K. Noeske, C. Papovich, A. C. Phillips, R. M. Rich, G. H. Rieke, D. Rigopoulou, S. Salim, D. Schiminovich, L. Simard, I. Smail, T. A. Small, B. Weiner, C. N. A. Willmer, S. P. Willner, G. Wilson, E. Wright, **R. Yan**, “The All-wavelength Extended Groth Strip International Survey (AEGIS) Data Sets”, *Astrophys. J. Lett.*, 660, 1; astro-ph/0607355; (2007)
- S. M. Faber, C. N. A. Willmer, C. Wolf, D. C. Koo, B. J. Weiner, Jeffrey A. Newman, M. Im, A. L. Coil, C. Conroy, M. C. Cooper, M. Davis, D. P. Finkbeiner, B. F. Gerke, K. Gebhardt, E. J. Groth, P. Guhathakurta, J. Harker, N. Kaiser, S. Kassin, M. Kleinheinrich, N. P. Konidaris, L. Lin, G. Luppino, D. S. Madgwick, K. Meisenheimer, K. G. Noeske, A. C. Phillips, V. L. Sarajedini, L. Simard, A. S. Szalay, N. P. Vogt, & **R. Yan**, “Galaxy Luminosity Functions to  $z$  1: DEEP2 vs. COMBO-17 and Implications for Red Galaxy Formation”, *Astrophys. J.*, 665, 265; (2007)
- Charlie Conroy, Francisco Prada, Jeffrey A. Newman, Darren Croton, Alison L. Coil, Christopher J. Conselice, Michael C. Cooper, Marc Davis, S. M. Faber, Brian F. Gerke, Puragra Guhathakurta, Anatoly Klypin, David C. Koo, **Renbin Yan**, “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)
- Ricardo P. Schiavon, S. M. Faber, Nicholas Konidaris, Genevieve Graves, Christopher N.A. Willmer, Benjamin J. Weiner, Alison L. Coil, Michael C. Cooper, Marc Davis, Justin Harker, David C. Koo, Jeffrey A. Newman, **Renbin Yan**, “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)
- M. Davis, B. F. Gerke, A. L. Coil, M. C. Cooper, **R. Yan**, Jeffrey A. Newman, S. M. Faber, D. Koo, & P. Guhathakurta, “Measuring the Growth of Structure with Spectroscopically Identified Groups and Clusters”, *Dark Energy Task Force white paper*, astro-ph/0507555 (2005).
- C. N. A. Willmer, S. M. Faber, D. C. Koo, B. J. Weiner, Jeffrey A. Newman, A. L. Coil, A. J. Connolly, C. Conroy, M. C. Cooper, M. Davis, D. P. Finkbeiner, B. F. Gerke, P. Guhathakurta, J. Harker, N. Kaiser, S. Kassin, N. P. Konidaris, L. Lin, G. Luppino, D. S. Madgwick, K. G. Noeske, A. C. Phillips, & **R. Yan**, “The DEEP2 Redshift Survey: The Galaxy Luminosity Function to  $z \sim 1$ ”, *Astrophys. J.*, 647, 853; astro-ph/0506041 (2006).
- Alison L. Coil, Brian F. Gerke, Jeffrey A. Newman, Chung-Pei Ma, **Renbin Yan**, Michael C. Cooper, Marc Davis, S. M. Faber, Puragra Guhathakurta, & David C. Koo, “The DEEP2 Galaxy Redshift Survey: Clustering of Groups and Group Galaxies at  $z \sim 1$ ”, *Astrophys. J.*, 638, 668; astro-ph/0507647 (2006).
- Charlie Conroy, Alison Coil, Martin White, Jeffrey Newman, **Renbin Yan**, Michael Cooper, Brian Gerke, Marc Davis, & David Koo, “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).
- Charlie Conroy, Jeffrey A. Newman, Marc Davis, Alison L. Coil, **Renbin Yan**, Michael C. Cooper, Brian F. Gerke, S.M. Faber, & David C. Koo, “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).
- Michael C. Cooper, Jeffrey A. Newman, Darren S. Madgwick, Brian F. Gerke, **Renbin Yan**, & Marc Davis, “Measuring Galaxy Environments with Deep Redshift Surveys”, *Astrophys. J.*, 634, 833; astro-ph/0506518 (2005).
- Brian F. Gerke, Jeffrey A. Newman, Marc Davis, Christian Marinoni, **Renbin Yan**, Alison Coil, Charlie Conroy, Michael C. Cooper, S. M. Faber, Douglas P. Finkbeiner, Puragra Guhathakurta, Nick Kaiser, David C. Koo, Andrew C. Phillips, Benjamin J. Weiner, & Christopher N. A. Willmer, “The DEEP2 Galaxy Redshift Survey: First results on galaxy groups”, *Astrophys. J.*, 625, 6; astro-ph/0410721 (2005).
- Lihwai Lin, David C. Koo, Christopher N. A. Willmer, David R. Patton, Christopher J. Conselice, **Renbin Yan**, Alison L. Coil, Michael C. Cooper, Marc Davis, S. M. Faber, Brian F. Gerke, Puragra Guhathakurta, & Jeffrey A. Newman, “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).
- Alison L. Coil, Marc Davis, Darren S. Madgwick, Jeffrey A. Newman, Christopher J. Conselice, Michael Cooper, Richard S. Ellis, S. M. Faber, Douglas P. Finkbeiner, Puragra Guhathakurta, Nick Kaiser, David C. Koo, Andrew C. Phillips, Charles C. Steidel, Benjamin J. Weier, Christopher N. A. Willmer, & **Renbin Yan**, “The DEEP2 Galaxy Redshift Survey: Clustering of Galaxies in Early Data”, *Astrophys. J.*, 609, 525 (2004).
- Darren S. Madgwick, Alison L. Coil, Christopher J. Conselice, Michael C. Cooper, Marc Davis, Richard S. Ellis, S. M. Faber, Douglas P. Finkbeiner, Brian Gerke, Puragra Guhathakurta, Nick Kaiser, David C. Koo, Jeffrey A. Newman, Andrew C. Phillips, Charles C. Steidel, Benjamin J. Weiner, Christopher N. A. Willmer, & **Renbin Yan**, “The DEEP2 Galaxy Redshift Survey: Spectral Classification of Galaxies at  $z \sim 1$ ”, *Astrophys. J.*, 599, 997 (2003).