

## Ying Zu

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## Education

### The Ohio State University, Columbus, Ohio

*Ph.D. in Astrophysics*

Advisor: David H. Weinberg

2008 – 2013

### Shanghai Astronomical Observatory, China

*Graduate Research Associate*

Advisor: Yipeng Jing

2006 – 2008

### Nanjing University with highest honours, China

*B.S. in Astronomy*

2001 – 2005

## Research Interests

Theoretical Astrophysics and Cosmology with close ties to observations:

- Galaxy-Dark Matter Connection, Galaxy and Cluster Formation, Weak Lensing
- Theories of Cosmic Acceleration, Cosmology, Large-Scale Structure
- Quasar Variability, Reverberation Mapping, Machine Learning

## Awards and Honors

Thousand Talented Youth Award (Chinese Government)

2016

Distinguished University Fellowship (OSU)

2008/2009, 2012/2013

National Science Fellowship of China (Ministry of Education, China)

2003, 2004, 2005

Scholarship for Excellence in Undergraduate Study (NJU)

2004, 2005

Top Freshman Award (0.01%)

2001

## Positions

Assistant Professor (Shanghai Jiao Tong University, Shanghai, China)

Sep, 2017 –

CCAPP Fellow (Center for Cosmology and Astro-Particle Physics, USA)

Sep, 2016 – Sep, 2017

Postdoctoral Fellow (Carnegie Mellon University, Pittsburgh, USA)

Sep, 2013 – Sep, 2016

## Invited • and Contributed Talks ◦

◦ DESI Meeting, Lawrence Berkeley National Lab, US

June, 2017

• Mexican Astro-Cosmo-Statistics School, University of Guanajuato, Mexico

June, 2017

• Astronomy Colloquium, University of Pennsylvania, US

Mar, 2017

• Sino-Germany Workshop on Galaxy & Cosmology, Guangzhou, China

Dec, 2016

• PMO Colloquium, Purple Mountain Observatory, China

Dec, 2016

• KIAA Lunch Seminar, Kavli Institute of Astrophysics and Astronomy, Beijing, China

Nov, 2016

• SDSS Collaboration Meeting, University of Wisconsin, US

Jul, 2016

• HEAP Seminar, University of Utah, US

Mar, 2016

◦ Galaxy-Halo Snowbird Conference, Utah, US

Mar, 2016

• IPMU Colloquium, University of Tokyo, Japan

Feb, 2016

- Berkeley Cosmology Group Seminar, UC Berkeley, US *Dec, 2015*
- KIPAC Cosmology Seminar, Stanford, US *Nov, 2015*
- Unbiased Cosmology Workshop, Institute for Advanced Study, US *Sep, 2015*
- Galaxy Footsteps Workshop, Soverato, Italy *Sep, 2015*
- Astrophysics Colloquium, Shanghai Jiao Tong University, China *Apr, 2015*
- Galaxy Bias Workshop, Ohio State University, US *Nov, 2014*
- DESI Meeting, Lawrence Berkeley National Lab, US *May, 2014*
- SDSS Collaboration Meeting, Carnegie Mellon University, US *Dec, 2012*
- Small Scale Clustering Meeting, Stanford, US *Oct, 2012*
- INPA Seminar, Lawrence Berkeley National Lab, US *Oct, 2012*
- Chinese Academy of Sciences Colloquium, Shanghai Observatory, China *Aug, 2010*

## Professional Activities and Outreach

- Reviewer for MNRAS, ApJ, A&A, JOAA, Austrian Science Fund (FWF)
- Organizer of CMU Astro-Coffee Discussions *Oct, 2013 – Sep, 2016*
- Co-organizer of LSST workshop on Machine Learning and Statistics, Pittsburgh, PA *Jun, 2015*
- Co-I for *HST* Cycle21 GO-13330 “Mapping the AGN Broad Line Region by Reverberation” *2013*
- Wrote and distributed software to simulate and analyze quasar light curves (JAVELIN)

## Teaching Experience

- Graduate Teaching Assistant, OSU *2009 – 2012*
- Astronomy Tutor at Kunlun Elementary School, Nanjing, China *2004 – 2005*

## Advising Experience

- Andres Salcedo (2nd year graduate student, OSU) *2016 – 2017*

S. Mathur, A. Gupta, K. Page, R. W. Pogge, Y. Krongold, M. R. Goad, S. M. Adams, M. D. Anderson, P. Arevalo, A. J. Barth, C. Bazhaw, T. G. Beatty, M. C. Bentz, A. Bigley, S. Bisogni, G. A. Borman, T. A. Boroson, M. C. Bottorff, W. N. Brandt, A. A. Breeveld, J. E. Brown, J. S. Brown, E. M. Cackett, G. Canalizo, M. T. Carini, K. I. Clubb, J. M. Comerford, C. T. Coker, E. M. Corsini, D. M. Crenshaw, S. Croft, K. V. Croxall, E. Dalla Bonta, A. J. Deason, K. D. Denney, A. De Lorenzo-Caceres, G. De Rosa, M. Dietrich, R. Edelson, J. Ely, M. Eracleous, P. A. Evans, M. M. Fausnaugh, G. J. Ferland, A. V. Filippenko, K. Flatland, O. D. Fox, E. L. Gates, N. Gehrels, S. Geier, J. M. Gelbord, V. Gorjian, J. E. Greene, C. J. Grier, D. Grupe, P. B. Hall, C. B. Henderson, S. Hicks, E. Holmbeck, T. W.-S. Holoien, D. Horenstein, K. Horne, T. Hutchison, M. Im, J. J. Jensen, C. A. Johnson, M. D. Joner, J. Jones, J. Kaastra, S. Kaspi, B. C. Kelly, P. L. Kelly, J. A. Kennea, M. Kim, S. Kim, S. C. Kim, A. King, S. A. Klimanov, C. S. Kochanek, K. T. Korista, G. A. Kriss, M. W. Lau, J. C. Lee, D. C. Leonard, M. Li, P. Lira, Z. Ma, F. MacInnis, E. R. Manne-Nicholas, M. A. Malkan, J. C. Mauerhan, R. McGurk, I. M. McHardy, C. Montouri, L. Morelli, A. Mosquera, D. Mudd, F. Muller-Sanchez, R. Musso, S. V. Nazarov, H. Netzer, M. L. Nguyen, R. P. Norris, J. A. Nousek, P. Ochner, D. N. Okhmat, B. Ou-Yang, A. Pancoast, I. Papadakis, J. R. Parks, L. Pei, B. M. Peterson, A. Pizzella, R. Poleski, J.-U. Pott, S. E. Rafter, H.-W. Rix, J. Runnoe, D. A. Saylor, J. S. Schimoia, K. Schnülle, S. G. Sergeev, B. J. Shappee, I. Shivvers, M. Siegel, G. V. Simonian, A. Siviero, A. Skielboe, G. Somers, M. Spencer, D. Starkey, D. J. Stevens, H.-I. Sung, J. Tayar, N. Tejos, C. S. Turner, P. Uttley, J. Van Saders, M. Vestergaard, L. Vican, S. Villanueva Jr., C. Villforth, Y. Weiss, J.-H. Woo, H. Yan, S. Young, H. Yuk, W. Zheng, W. Zhu, and **Y. Zu**. Space Telescope and Optical Reverberation Mapping Project. VII. Understanding the UV anomaly in NGC 5548 with X-Ray Spectroscopy. *ArXiv e-prints*, April 2017.

L. Pei, M. M. Fausnaugh, A. J. Barth, B. M. Peterson, M. C. Bentz, G. De Rosa, K. D. Denney, M. R. Goad, C. S. Kochanek, K. T. Korista, G. A. Kriss, R. W. Pogge, V. N. Bennert, M. Brotherton, K. I. Clubb, E. Dalla Bontà, A. V. Filippenko, J. E. Greene, C. J. Grier, M. Vestergaard, W. Zheng, S. M. Adams, T. G. Beatty, A. Bigley, J. E. Brown, J. S. Brown, G. Canalizo, J. M. Comerford, C. T. Coker, E. M. Corsini, S. Croft, K. V. Croxall, A. J. Deason, M. Eracleous, O. D. Fox, E. L. Gates, C. B. Henderson, E. Holmbeck, T. W.-S. Holoien, J. J. Jensen, C. A. Johnson, P. L. Kelly, S. Kim, A. King, M. W. Lau, M. Li, C. Lochhaas, Z. Ma, E. R. Manne-Nicholas, J. C. Mauerhan, M. A. Malkan, R. McGurk, L. Morelli, A. Mosquera, D. Mudd, F. Muller Sanchez, M. L. Nguyen, P. Ochner, B. Ou-Yang, A. Pancoast, M. T. Penny, A. Pizzella, R. Poleski, J. Runnoe, B. Scott, J. S. Schimoia, B. J. Shappee, I. Shivvers, G. V. Simonian, A. Siviero, G. Somers, D. J. Stevens, M. A. Strauss, J. Tayar, N. Tejos, T. Treu, J. Van Saders, L. Vican, S. Villanueva, Jr., H. Yuk, N. L. Zakamska, W. Zhu, M. D. Anderson, P. Arévalo, C. Bazhaw, S. Bisogni, G. A. Borman, M. C. Bottorff, W. N. Brandt, A. A. Breeveld, E. M. Cackett, M. T. Carini, D. M. Crenshaw, A. De Lorenzo-Cáceres, M. Dietrich, R. Edelson, N. V. Efimova, J. Ely, P. A. Evans, G. J. Ferland, K. Flatland, N. Gehrels, S. Geier, J. M. Gelbord, D. Grupe, A. Gupta, P. B. Hall, S. Hicks, D. Horenstein, K. Horne, T. Hutchison, M. Im, M. D. Joner, J. Jones, J. Kaastra, S. Kaspi, B. C. Kelly, J. A. Kennea, M. Kim, S. C. Kim, S. A. Klimanov, J. C. Lee, D. C. Leonard, P. Lira, F. MacInnis, S. Mathur, I. M. McHardy, C. Montouri, R. Musso, S. V. Nazarov, H. Netzer, R. P. Norris, J. A. Nousek, D. N. Okhmat, I. Papadakis, J. R. Parks, J.-U. Pott, S. E. Rafter, H.-W. Rix, D. A. Saylor, K. Schnülle, S. G. Sergeev, M. Siegel, A. Skielboe, M. Spencer, D. Starkey, H.-I. Sung, K. G. Teems, C. S. Turner, P. Uttley, C. Villforth, Y. Weiss, J.-H. Woo, H. Yan, S. Young, and **Y. Zu**. Space Telescope and Optical Reverberation Mapping Project. V. Optical Spectroscopic Campaign and Emission-line Analysis for NGC 5548. *ApJ*, 837:131, March 2017.

**Y. Zu** and R. Mandelbaum. Mapping stellar content to dark matter halos - III.Environmental dependence and conformity of galaxy colours. *ArXiv e-prints*, March 2017.

D. Starkey, K. Horne, M. M. Fausnaugh, B. M. Peterson, M. C. Bentz, C. S. Kochanek, K. D. Denney, R. Edelson, M. R. Goad, G. De Rosa, M. D. Anderson, P. Arévalo, A. J. Barth, C. Bazhaw, G. A. Borman, T. A. Boroson, M. C. Bottorff, W. N. Brandt, A. A. Breeveld, E. M. Cackett, M. T. Carini, K. V. Croxall, D. M. Crenshaw, E. Dalla Bontà, A. De Lorenzo-Cáceres, M. Dietrich, N. V. Efimova, J. Ely, P. A. Evans, A. V. Filippenko, K. Flatland, N. Gehrels, S. Geier, J. M. Gelbord, L. Gonzalez, V. Gorjian, C. J. Grier, D. Grupe, P. B. Hall, S. Hicks, D. Horenstein, T. Hutchison, M. Im, J. J. Jensen, M. D. Joner, J. Jones, J. Kaastra, S. Kaspi, B. C. Kelly, J. A. Kennea, S. C. Kim, M. Kim, S. A. Klimanov, K. T. Korista, G. A. Kriss, J. C. Lee, D. C. Leonard, P. Lira, F. MacInnis, E. R. Manne-Nicholas, S. Mathur, I. M. McHardy, C. Montouri, R. Musso, S. V. Nazarov, R. P. Norris, J. A. Nousek, D. N. Okhmat, A. Pancoast, J. R. Parks, L. Pei, R. W. Pogge, J.-U. Pott, S. E. Rafter, H.-W. Rix, D. A. Saylor, J. S. Schimoia, K. Schnülle, S. G. Sergeev, M. H. Siegel, M. Spencer, H.-I. Sung, K. G. Teems, C. S. Turner, P. Uttley, M. Vestergaard, C. Villforth, Y. Weiss, J.-H. Woo, H. Yan, S. Young, W. Zheng, and **Y. Zu**. Space Telescope and Optical Reverberation Mapping Project.VI. Reverberating Disk Models for NGC 5548. *ApJ*, 835:65, January 2017.

**Y. Zu**, R. Mandelbaum, M. Simet, E. Rozo, and E. S. Rykoff. On the Level of Cluster Assembly Bias in SDSS. *ArXiv e-prints*, November 2016.

DESI Collaboration, A. Aghamousa, J. Aguilar, S. Ahlen, S. Alam, L. E. Allen, C. Allende Prieto, J. Annis, S. Bailey, C. Balland, and et al. (inc. **Y. Zu**) The DESI Experiment Part I: Science,Targeting, and Survey Design. *ArXiv e-prints*, October 2016.

DESI Collaboration, A. Aghamousa, J. Aguilar, S. Ahlen, S. Alam, L. E. Allen, C. Allende Prieto, J. Annis, S. Bailey, C. Balland, and et al. (inc. **Y. Zu**) The DESI Experiment Part II: Instrument Design. *ArXiv e-prints*, October 2016.

M. R. Goad, K. T. Korista, G. De Rosa, G. A. Kriss, R. Edelson, A. J. Barth, G. J. Ferland, C. S. Kochanek, H. Netzer, B. M. Peterson, M. C. Bentz, S. Bisogni, D. M. Crenshaw, K. D. Denney, J. Ely, M. M. Fausnaugh, C. J. Grier, A. Gupta, K. D. Horne, J. Kaastra, A. Pancoast, L. Pei, R. W. Pogge, A. Skielboe, D. Starkey, M. Vestergaard, **Y. Zu**, M. D. Anderson, P. Arévalo, C. Bazhaw, G. A. Borman, T. A. Boroson, M. C. Bottorff, W. N. Brandt, A. A. Breeveld, B. J. Brewer, E. M. Cackett, M. T. Carini, K. V. Croxall, E. Dalla Bontà, A. De Lorenzo-Cáceres, M. Dietrich, N. V. Efimova, P. A. Evans, A. V. Filippenko, K. Flatland, N. Gehrels, S. Geier, J. M. Gelbord, L. Gonzalez, V. Gorjian, D. Grupe, P. B. Hall, S. Hicks, D. Horenstein, T. Hutchison, M. Im, J. J. Jensen, M. D. Joner, J. Jones, S. Kaspi, B. C. Kelly, J. A. Kennea, M. Kim, S. C. Kim, S. A. Klimanov, J. C. Lee, D. C. Leonard, P. Lira, F. MacInnis, E. R. Manne-Nicholas, S. Mathur, I. M. McHardy, C. Montouri, R. Musso, S. V. Nazarov, R. P. Norris, J. A. Nousek, D. N. Okhmat, I. Papadakis, J. R. Parks, J.-U. Pott, S. E. Rafter, H.-W. Rix, D. A. Saylor, J. S. Schimoia, K. Schnülle, S. G. Sergeev, M. Siegel, M. Spencer, H.-I. Sung, K. G. Teems, T. Treu, C. S. Turner, P. Uttley, C. Villforth, Y. Weiss, J.-H. Woo, H. Yan, S. Young, and W.-K. Zheng. Space Telescope and Optical Reverberation Mapping Project. IV. Anomalous Behavior of the Broad Ultraviolet Emission Lines in NGC 5548. *ApJ*, 824:11, June 2016.

M. M. Fausnaugh, K. D. Denney, A. J. Barth, M. C. Bentz, M. C. Bottorff, M. T. Carini, K. V. Croxall, G. De Rosa, M. R. Goad, K. Horne, M. D. Joner, S. Kaspi, M. Kim, S. A. Klimanov, C. S. Kochanek, D. C. Leonard, H. Netzer, B. M. Peterson, K. Schnülle, S. G. Sergeev, M. Vestergaard, W.-K. Zheng, **Y. Zu**, M. D. Anderson, P. Arévalo, C. Bazhaw, G. A. Borman, T. A. Boroson, W. N. Brandt, A. A. Breeveld, B. J. Brewer, E. M. Cackett, D. M. Crenshaw, E. Dalla Bontà, A. De Lorenzo-Cáceres, M. Dietrich, R. Edelson, N. V. Efimova, J. Ely, P. A. Evans, A. V. Filippenko, K. Flatland, N. Gehrels, S. Geier, J. M. Gelbord, L. Gonzalez, V. Gorjian, C. J. Grier, D. Grupe, P. B.

Hall, S. Hicks, D. Horenstein, T. Hutchison, M. Im, J. J. Jensen, J. Jones, J. Kaastra, B. C. Kelly, J. A. Kennea, S. C. Kim, K. T. Korista, G. A. Kriss, J. C. Lee, P. Lira, F. MacInnis, E. R. Manne-Nicholas, S. Mathur, I. M. McHardy, C. Montouri, R. Musso, S. V. Nazarov, R. P. Norris, J. A. Nousek, D. N. Okhmat, A. Pancoast, I. Papadakis, J. R. Parks, L. Pei, R. W. Pogge, J.-U. Pott, S. E. Rafter, H.-W. Rix, D. A. Saylor, J. S. Schimoia, M. Siegel, M. Spencer, D. Starkey, H.-I. Sung, K. G. Teems, T. Treu, C. S. Turner, P. Uttley, C. Villforth, Y. Weiss, J.-H. Woo, H. Yan, and S. Young. Space Telescope and Optical Reverberation Mapping Project. III. Optical Continuum Emission and Broadband Time Delays in NGC 5548. *ApJ*, 821:56, April 2016.

R. Mandelbaum, W. Wang, **Y. Zu**, S. White, B. Henriques, and S. More. Strong bimodality in the host halo mass of central galaxies from galaxy-galaxy lensing. *MNRAS*, 457:3200–3218, April 2016.

**Y. Zu** and R. Mandelbaum. Mapping stellar content to dark matter haloes - II. Halo mass is the main driver of galaxy quenching. *MNRAS*, 457:4360–4383, April 2016.

**Y. Zu**, C. S. Kochanek, S. Kozłowski, and B. M. Peterson. Application of Stochastic Modeling to Analysis of Photometric Reverberation Mapping Data. *ApJ*, 819:122, March 2016.

Y. Shen, K. Horne, C. J. Grier, B. M. Peterson, K. D. Denney, J. R. Trump, M. Sun, W. N. Brandt, C. S. Kochanek, K. S. Dawson, P. J. Green, J. E. Greene, P. B. Hall, L. C. Ho, L. Jiang, K. Kinemuchi, I. D. McGreer, P. Petitjean, G. T. Richards, D. P. Schneider, M. A. Strauss, C. Tao, W. M. Wood-Vasey, **Y. Zu**, K. Pan, D. Bizyaev, J. Ge, D. Oravetz, and A. Simmons. The Sloan Digital Sky Survey Reverberation Mapping Project: First Broad-line  $H\beta$  and Mg ii Lags at  $z > 0.3$  from Six-month Spectroscopy. *ApJ*, 818:30, February 2016.

**Y. Zu** and R. Mandelbaum. Mapping stellar content to dark matter haloes using galaxy clustering and galaxy-galaxy lensing in the SDSS DR7. *MNRAS*, 454:1161–1191, December 2015.

G. De Rosa, B. M. Peterson, J. Ely, G. A. Kriss, D. M. Crenshaw, K. Horne, K. T. Korista, H. Netzer, R. W. Pogge, P. Arévalo, A. J. Barth, M. C. Bentz, W. N. Brandt, A. A. Breeveld, B. J. Brewer, E. Dalla Bontà, A. De Lorenzo-Cáceres, K. D. Denney, M. Dietrich, R. Edelson, P. A. Evans, M. M. Fausnaugh, N. Gehrels, J. M. Gelbord, M. R. Goad, C. J. Grier, D. Grupe, P. B. Hall, J. Kaastra, B. C. Kelly, J. A. Kennea, C. S. Kochanek, P. Lira, S. Mathur, I. M. McHardy, J. A. Nousek, A. Pancoast, I. Papadakis, L. Pei, J. S. Schimoia, M. Siegel, D. Starkey, T. Treu, P. Uttley, S. Vaughan, M. Vestergaard, C. Villforth, H. Yan, S. Young, and **Y. Zu**. Space Telescope and Optical Reverberation Mapping Project. I. Ultraviolet Observations of the Seyfert 1 Galaxy NGC 5548 with the Cosmic Origins Spectrograph on Hubble Space Telescope. *ApJ*, 806:128, June 2015.

R. Edelson, J. M. Gelbord, K. Horne, I. M. McHardy, B. M. Peterson, P. Arévalo, A. A. Breeveld, G. De Rosa, P. A. Evans, M. R. Goad, G. A. Kriss, W. N. Brandt, N. Gehrels, D. Grupe, J. A. Kennea, C. S. Kochanek, J. A. Nousek, I. Papadakis, M. Siegel, D. Starkey, P. Uttley, S. Vaughan, S. Young, A. J. Barth, M. C. Bentz, B. J. Brewer, D. M. Crenshaw, E. Dalla Bontà, A. De Lorenzo-Cáceres, K. D. Denney, M. Dietrich, J. Ely, M. M. Fausnaugh, C. J. Grier, P. B. Hall, J. Kaastra, B. C. Kelly, K. T. Korista, P. Lira, S. Mathur, H. Netzer, A. Pancoast, L. Pei, R. W. Pogge, J. S. Schimoia, T. Treu, M. Vestergaard, C. Villforth, H. Yan, and **Y. Zu**. Space Telescope and Optical Reverberation Mapping Project. II. Swift and HST Reverberation Mapping of the Accretion Disk of NGC 5548. *ApJ*, 806:129, June 2015.

Y. Shen, W. N. Brandt, K. S. Dawson, P. B. Hall, I. D. McGreer, S. F. Anderson, Y. Chen, K. D. Denney, S. Eftekharzadeh, X. Fan, Y. Gao, P. J. Green, J. E. Greene, L. C. Ho, K. Horne, L. Jiang, B. C. Kelly, K. Kinemuchi, C. S. Kochanek, I. Pâris, C. M. Peters, B. M. Peterson, P. Petitjean, K. Ponder, G. T. Richards, D. P. Schneider, A. Seth, R. N. Smith, M. A. Strauss, C. Tao, J. R.

Trump, W. M. Wood-Vasey, **Y. Zu**, D. J. Eisenstein, K. Pan, D. Bizyaev, V. Malanushenko, E. Malanushenko, and D. Oravetz. The Sloan Digital Sky Survey Reverberation Mapping Project: Technical Overview. *ApJS*, 216:4, January 2015.

**Y. Zu**, D. H. Weinberg, E. Jennings, B. Li, and M. Wyman. Galaxy infall kinematics as a test of modified gravity. *MNRAS*, 445:1885–1897, December 2014.

B. M. Peterson, C. J. Grier, K. Horne, R. W. Pogge, M. C. Bentz, G. De Rosa, K. D. Denney, P. Martini, S. G. Sergeev, S. Kaspi, T. Minezaki, **Y. Zu**, C. S. Kochanek, R. J. Siverd, B. Shappee, C. Araya Salvo, T. G. Beatty, J. C. Bird, D. J. Bord, G. A. Borman, X. Che, C.-T. Chen, S. A. Cohen, M. Dietrich, V. T. Doroshenko, T. Drake, Y. S. Efimov, N. Free, I. Ginsburg, C. B. Henderson, A. L. King, S. Koshida, K. Mogren, M. Molina, A. M. Mosquera, K. Motohara, S. V. Nazarov, D. N. Okhmat, O. Pejcha, S. Rafter, J. C. Shields, D. M. Skowron, J. Skowron, M. Valluri, J. L. van Sadlers, and Y. Yoshii. Reverberation Mapping of the Seyfert 1 Galaxy NGC 7469. *ApJ*, 795:149, November 2014.

B. J. Shappee, J. L. Prieto, D. Grupe, C. S. Kochanek, K. Z. Stanek, G. De Rosa, S. Mathur, **Y. Zu**, B. M. Peterson, R. W. Pogge, S. Komossa, M. Im, J. Jencson, T. W.-S. Holoién, U. Basu, J. F. Beacom, D. M. Szczygiel, J. Brimacombe, S. Adams, A. Campillay, C. Choi, C. Contreras, M. Dietrich, M. Dubberley, M. Elphick, S. Foale, M. Giustini, C. Gonzalez, E. Hawkins, D. A. Howell, E. Y. Hsiao, M. Koss, K. M. Leighly, N. Morrell, D. Mudd, D. Mullins, J. M. Nugent, J. Parrent, M. M. Phillips, G. Pojmanski, W. Rosing, R. Ross, D. Sand, D. M. Terndrup, S. Valenti, Z. Walker, and Y. Yoon. The Man behind the Curtain: X-Rays Drive the UV through NIR Variability in the 2013 Active Galactic Nucleus Outburst in NGC 2617. *ApJ*, 788:48, June 2014.

**Y. Zu**, D. H. Weinberg, E. Rozo, E. S. Sheldon, J. L. Tinker, and M. R. Becker. Cosmological constraints from the large-scale weak lensing of SDSS MaxBCG clusters. *MNRAS*, 439:1628–1647, April 2014.

C. J. Grier, P. Martini, L. C. Watson, B. M. Peterson, M. C. Bentz, K. M. Dasyra, M. Dietrich, L. Ferrarese, R. W. Pogge, and **Y. Zu**. Stellar Velocity Dispersion Measurements in High-luminosity Quasar Hosts and Implications for the AGN Black Hole Mass Scale. *ApJ*, 773:90, August 2013.

**Y. Zu** and D. H. Weinberg. The redshift-space cluster-galaxy cross-correlation function - I. Modelling galaxy infall on to Millennium simulation clusters and SDSS groups. *MNRAS*, 431:3319–3337, June 2013.

D. Spergel, N. Gehrels, J. Brekinridge, M. Donahue, A. Dressler, B. S. Gaudi, T. Greene, O. Guyon, C. Hirata, J. Kalirai, N. J. Kasdin, W. Moos, S. Perlmutter, M. Postman, B. Rauscher, J. Rhodes, Y. Wang, D. Weinberg, J. Centrella, W. Traub, C. Baltay, J. Colbert, D. Bennett, A. Kiessling, B. Macintosh, J. Merten, M. Mortonson, M. Penny, E. Rozo, D. Savransky, K. Stapelfeldt, **Y. Zu**, C. Baker, E. Cheng, D. Content, J. Dooley, M. Foote, R. Goullioud, K. Grady, C. Jackson, J. Kruk, M. Levine, M. Melton, C. Peddie, J. Ruffa, and S. Shaklan. WFIRST-2.4: What Every Astronomer Should Know. *ArXiv e-prints*, May 2013.

D. Spergel, N. Gehrels, J. Brekinridge, M. Donahue, A. Dressler, B. S. Gaudi, T. Greene, O. Guyon, C. Hirata, J. Kalirai, N. J. Kasdin, W. Moos, S. Perlmutter, M. Postman, B. Rauscher, J. Rhodes, Y. Wang, D. Weinberg, J. Centrella, W. Traub, C. Baltay, J. Colbert, D. Bennett, A. Kiessling, B. Macintosh, J. Merten, M. Mortonson, M. Penny, E. Rozo, D. Savransky, K. Stapelfeldt, **Y. Zu**, C. Baker, E. Cheng, D. Content, J. Dooley, M. Foote, R. Goullioud, K. Grady, C. Jackson, J. Kruk, M. Levine, M. Melton, C. Peddie, J. Ruffa, and S. Shaklan. Wide-Field InfraRed Survey Telescope-Astrophysics Focused Telescope Assets WFIRST-AFTA Final Report. *ArXiv e-prints*, May 2013.

**Y. Zu**, C. S. Kochanek, S. Kozłowski, and A. Udalski. Is Quasar Optical Variability a Damped Random Walk? *ApJ*, 765:106, March 2013.

C. J. Grier, B. M. Peterson, K. Horne, M. C. Bentz, R. W. Pogge, K. D. Denney, G. De Rosa, P. Martini, C. S. Kochanek, **Y. Zu**, B. Shappee, R. Siverd, T. G. Beatty, S. G. Sergeev, S. Kaspi, C. Araya Salvo, J. C. Bird, D. J. Bord, G. A. Borman, X. Che, C. Chen, S. A. Cohen, M. Dietrich, V. T. Doroshenko, Y. S. Efimov, N. Free, I. Ginsburg, C. B. Henderson, A. L. King, K. Mogren, M. Molina, A. M. Mosquera, S. V. Nazarov, D. N. Okhmat, O. Pejcha, S. Rafter, J. C. Shields, J. Skowron, D. M. Szczygiel, M. Valluri, and J. L. van Sadlers. The Structure of the Broad-line Region in Active Galactic Nuclei. I. Reconstructed Velocity-delay Maps. *ApJ*, 764:47, February 2013.

C. J. Grier, B. M. Peterson, R. W. Pogge, K. D. Denney, M. C. Bentz, P. Martini, S. G. Sergeev, S. Kaspi, T. Minezaki, **Y. Zu**, C. S. Kochanek, R. Siverd, B. Shappee, K. Z. Stanek, C. Araya Salvo, T. G. Beatty, J. C. Bird, D. J. Bord, G. A. Borman, X. Che, C. Chen, S. A. Cohen, M. Dietrich, V. T. Doroshenko, T. Drake, Y. S. Efimov, N. Free, I. Ginsburg, C. B. Henderson, A. L. King, S. Koshida, K. Mogren, M. Molina, A. M. Mosquera, S. V. Nazarov, D. N. Okhmat, O. Pejcha, S. Rafter, J. C. Shields, J. Skowron, D. M. Szczygiel, M. Valluri, and J. L. van Sadlers. Reverberation Mapping Results for Five Seyfert 1 Galaxies. *ApJ*, 755:60, August 2012.

C. J. Grier, B. M. Peterson, R. W. Pogge, K. D. Denney, M. C. Bentz, P. Martini, S. G. Sergeev, S. Kaspi, **Y. Zu**, C. S. Kochanek, B. J. Shappee, K. Z. Stanek, C. Araya Salvo, T. G. Beatty, J. C. Bird, D. J. Bord, G. A. Borman, X. Che, C. Chen, S. A. Cohen, M. Dietrich, V. T. Doroshenko, Y. S. Efimov, N. Free, I. Ginsburg, C. B. Henderson, K. Horne, A. L. King, K. Mogren, M. Molina, A. M. Mosquera, S. V. Nazarov, D. N. Okhmat, O. Pejcha, S. Rafter, J. C. Shields, J. Skowron, D. M. Szczygiel, M. Valluri, and J. L. van Sadlers. A Reverberation Lag for the High-ionization Component of the Broad-line Region in the Narrow-line Seyfert 1 Mrk 335. *ApJ*, 744:L4, January 2012.

J. L. Tinker, E. S. Sheldon, R. H. Wechsler, M. R. Becker, E. Rozo, **Y. Zu**, D. H. Weinberg, I. Zehavi, M. R. Blanton, M. T. Busha, and B. P. Koester. Cosmological Constraints from Galaxy Clustering and the Mass-to-number Ratio of Galaxy Clusters. *ApJ*, 745:16, January 2012.

**Y. Zu**, C. S. Kochanek, and B. M. Peterson. An Alternative Approach to Measuring Reverberation Lags in Active Galactic Nuclei. *ApJ*, 735:80, July 2011.

**Y. Zu**, D. H. Weinberg, R. Davé, M. Fardal, N. Katz, D. Kereš, and B. D. Oppenheimer. Intergalactic dust extinction in hydrodynamic cosmological simulations. *MNRAS*, 412:1059–1069, April 2011.

**Y. Zu**, Z. Zheng, G. Zhu, and Y. P. Jing. Environmental Effects on Real-Space and Redshift-Space Galaxy Clustering. *ApJ*, 686:41–52, October 2008.