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## Education

The Ohio State University, Columbus, Ohio

Advisor: David H. Weinberg

Ph.D. in Astrophysics 2008 – 2013

Shanghai Astronomical Observotary, China Advisor: Yipeng Jing

Graduate Research Associate 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, Blackhole Mass Measurement (Reverberation Mapping)

# **Awards and Honors**

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

#### Positions

Postdoctoral Fellow (McWilliams Cosmology Center, Carnegie Mellon Univ.)

Sep. 2013 –

#### Invited • and Conference o Talks

• Berkeley Cosmology Group Seminar, UC Berkeley	Dec, 2015
• KIPAC Cosmology Seminar, Stanford	Nov, 2015
o Unbiased Cosmology Workshop, Institute for Advanced Study	$Sep, \ 2015$
o Galaxy Footsteps Workshop, Univ. of Birmingham	Sep, 2015
• Center for Astronomy and Astrophysics Colloquium, Shanghai Jiaotong Univ.	Apr, 2015
o Galaxy Bias Workshop, OSU	Nov, 2014
o DESI Meeting, Lawrence Berkeley National Lab	May, 2014
o SDSS Collaboration Meeting, Carnegie Mellon University	Dec, 2012
• Small Scale Clustering Meeting, Stanford	Oct, 2012
• INPA Seminar, Lawrence Berkeley National Lab	Oct, 2012
• Chinese Academy of Sciences Colloquium, Shanghai Observatory	Aug, 2010

#### **Professional Activities and Outreach**

- Reviewer for MNRAS, ApJ, A&A, JOAA, Austrian Science Fund (FWF)
- Organizer of CMU Astro-Coffee Discussions

- Media Coordinator of McWilliams Center (Youtube & Twitter Channels)
- Oct, 2013 -
- 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)

### References

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Prof. Rachel Mandelbaum

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Prof. Christopher S. Kochanek

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Email: ckochanek@astronomy.ohio-state.edu

- Zu, Y., and Mandelbaum, R. (2015). "Mapping stellar content to dark matter halos. II. Halo mass is the main driver of galaxy quenching". arXiv e-print 1509.06758 (25pp).
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- Zu, Y., and Mandelbaum, R. (2015). "Mapping stellar content to dark matter halos using galaxy clustering and galaxy-galaxy lensing in the SDSS DR7". Monthly Notices of the Royal Astronomical Society, 454 (2): 1161–1191.
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- o Edelson, R., Gelbord, J. M., Horne, K., McHardy, I. M., Peterson, B. M., Arévalo, P., Breeveld, A. A., De Rosa, G., Evans, P. A., Goad, M. R., Kriss, G. A., Brandt, W. N., Gehrels, N., Grupe, D., Kennea, J. A., Kochanek, C. S., Nousek, J. A., Papadakis, I., Siegel, M., Starkey, D., Uttley, P., Vaughan, S., Young, S., Barth, A. J., Bentz, M. C., Brewer, B. J., Crenshaw, D. M., Dalla Bontà, E., De Lorenzo-Cáceres, A., Denney, K. D., Dietrich, M., Ely, J., Fausnaugh, M. M., Grier, C. J., Hall, P. B., Kaastra, J., Kelly, B. C., Korista, K. T., Lira, P., Mathur, S., Netzer, H., Pancoast, A., Pei, L., Pogge, R. W., Schimoia, J. S., Treu, T., Vestergaard, M., Villforth, C., Yan, H., and Zu, Y. (2015). "Space Telescope and Optical Reverberation Mapping Project. II. Swift and HST Reverberation Mapping of the Accretion Disk of NGC 5548". The Astrophysical Journal, 806:129–143.
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