

Curriculum Vitae Jonathan R. Trump

Steward Observatory
933 N. Cherry Ave.
Tucson, AZ 85721

jtrump@as.arizona.edu

<http://shaihlud.as.arizona.edu/~jtrump/>

(520) 621-2026 (office)
(520) 260-4633 (cell)
(520) 621-1532 (FAX)

Education

- 2010 Ph.D. University of Arizona, *Astronomy* (anticipated)
- 2004 B.S. Penn State University, Schreyer Honors, *Astronomy, summa cum laude*
- 2004 B.S. Penn State University, *Physics, summa cum laude*
- 2000 Conrad Weiser High School, Robesonia, PA *highest honors*

Research Experience

- 7/2004-current Graduate Researcher, University of Arizona (advisor: Chris Impey)
- 6/2008-8/2008 NSF/JSPS Summer Researcher, Ehime University (advisor: Yoshi Taniguchi)
- 1/2002-6/2004 Undergraduate Researcher, Penn State (advisor: Don Schneider)

Scientific Interests

Formation and Evolution of Supermassive Black Holes
Active Galactic Nuclei Fueling and Obscuration, and the IR and X-ray Backgrounds
Searches for Obscured AGN, including optically dull and Compton-thick AGN
AGN Winds and Feedback, Connecting Star formation and AGN Fueling and Obscuration
Multiwavelength Observational Astronomy, Bolometric Description of Extragalactic Sources

Honors & Awards

- 2009-2010 NSF Doctoral Dissertation Enhancement Grant
- 2008-2009 Achievement Rewards for College Scientists, Papadoupoulos Scholar
- 2008 NSF/JSPS East Asia & Pacific Summer Institutes Fellowship
- 2004,2005 NSF Graduate Research Fellowship Honorable Mention
- 2000-2004 Schreyer Honors College Scholar
- 2001-2004 Pennsylvania Science and Technology Grant
- 2003-2004 Society of Distinguished Alumni Scholarship
- 2003 Schreyer Honors College Summer Research Scholarship
- 2003 Eberly College of Science Research Award

Observing Experience

- 2009 2.3 m Bok/90prime 6 nights
- 2005, 2006, 2007, 2008 6.5 m Magellan/IMACS 14 nights
- 2007 6.5 m MMT/Hectospec 2 nights

Teaching, Outreach, and Professional Experience

- 2009 Part of Science Advisory Board for the new Magellan/M2FS instrument
- 2008-2009 5 Colloquia/Seminars given (Caltech, Hawaii, Kyoto, Ehime, Harvard/CfA)
- 2003-2009 6 Contributed Conference Talks given, and 5 Conference Posters presented
- August 2008 Closing Lecture, NSF/JSPS Summer Research Program
- Summer 2008 Creator of 5-part "Astronomy in English" lecture series, Ehime University
- 2008 Served as Referee for MNRAS publication
- Spring 2008 Teaching Assistant, Univ of Arizona, Astr 202: Life in the Universe
- Fall 2007 Teaching Assistant, Univ of Arizona, Astr 202: Life in the Universe
- Spring 2007 Teaching Assistant, Univ of Arizona, Astr 202: Life in the Universe
- April 2007 Arizona Astronomy Board popular-level astronomy talk
- 2002-2003 Tutor, Department of Physics, Penn State

Bibliography of Publications

Jonathan R. Trump

- 25: Jahnke, K. et al. **including J. R. Trump** 2009, *Galaxies in COSMOS: Evolution of Black hole vs. bulge mass but not vs. total stellar mass over the last 9 Gyrs?*, ApJL in press (astro-ph/0907.5199)
- 24: Merloni, A. et al. **including J. R. Trump** 2009, *On the cosmic evolution of the scaling relations between black holes and their host galaxies: Broad Line AGN in the zCOSMOS survey*, ApJ in press (astro-ph/0910.4970)
- 23: **Trump, J. R.** et al. 2009, *The Nature of Optically Dull Active Galactic Nuclei in COSMOS*, ApJ in press (astro-ph/0910.2672)
- 22: Taniguchi, Y. et al. **including J. R. Trump** 2009, *HST/ACS Morphology of Ly α Emitters at Redshift 5.7 in the COSMOS Field*, ApJ, 701, 915
- 21: Ideue, Y. et al. **including J. R. Trump** 2009, *Environmental Effects on the Star Formation Activity in Galaxies at $z \simeq 1.2$ in the COSMOS Field*, ApJ, 700, 9711
- 20: **Trump, J. R.** et al. 2009, *Observational Limits on Type 1 AGN Accretion Rate in COSMOS*, 700, 49
- 19: **Trump, J. R.** et al. 2009, *The COSMOS Active Galactic Nucleus Spectroscopic Survey. I. XMM-Newton Counterparts*, ApJ, 696, 1195
- 18: Shioya, Y. et al. **including J. R. Trump** 2009, *Photometric Properties of Ly α Emitters at $z 4.86$ in the COSMOS 2 Square Degree Field*, ApJ, 696, 546
- 17: Smolčić, V. et al. **including J. R. Trump** 2009, *Cosmic Evolution of Radio Selected Active Galactic Nuclei in the Cosmos Field*, ApJ, 696, 24
- 16: Fiore, F. et al. **including J. R. Trump** 2009, *Chasing highly obscured QSOs in the COSMOS field*, ApJ, 693, 447
- 15: Brusa, M. et al. **including J. R. Trump** 2009, *High redshift quasars in the COSMOS survey: the space density of $z > 3$ X-ray selected QSOs*, ApJ, 693, 8
- 14: Gabor, J. M. et al. **including J. R. Trump** 2009, *AGN Host Galaxy Morphologies in COSMOS*, ApJ, 691, 705
- 13: Salvato, M. et al. **including J. R. Trump** 2009, *Photometric redshift and classification for the XMM-COSMOS sources*, ApJ, 690, 1250
- 12: Gilli, R. et al. **including J. R. Trump** 2009, *The spatial clustering of X-ray selected AGN in the XMM-COSMOS field*, A&A, 494, 33
- 11: Casey, C. M., Impey, C. D., **Trump, J. R.** et al. 2008, *Optical Selection of Faint Active Galactic Nuclei in the COSMOS Field*, ApJS, 177, 131
- 10: Smolčić, V. et al. **including J. R. Trump** 2008, *A New Method to Separate Star-forming from AGN Galaxies at Intermediate Redshift: The Submillijansky Radio Population in the VLA-COSMOS Survey*, ApJS, 177, 14
- 9: Kelly, B.C., Bechtold, J., **Trump, J. R.**, Vestergaard, M., & Siemiginowska, A. 2008, *Observational Constraints on the Dependence of Radio-Quiet Quasar X-Ray Emission on Black Hole Mass and Accretion Rate*, ApJS, 176, 355
- 8: **Trump, J. R.** et al. 2007, *Magellan Spectroscopy of AGN Candidates in the COSMOS Field*, ApJS, 172, 383

- 7: Mainieri, V. et al. **including J. R. Trump** 2007, *The XMM-Newton Wide-Field Survey in the COSMOS Field. IV. X-Ray Spectral Properties of AGN*, ApJS, 172, 368
- 6: Brusa, M. et al. **including Trump, J. R.** 2007, *The XMM-Newton Wide-Field Survey in the COSMOS Field. III. Optical Identification and Multiwavelength Properties of a Large Sample of X-Ray-Selected Sources*, ApJS, 172, 353
- 5: Smolčić, V. et al. **including J. R. Trump**, 2007, *A Wide-Angle Tail Radio Galaxy in the COSMOS Field: Evidence for Cluster Formation*, ApJS, 172, 295
- 4: Finoguenov, A. et al. **including J. R. Trump** 2007, *The XMM-Newton Wide-Field Survey in the COSMOS Field: Statistical Properties of Galaxy Clusters*, ApJS, 172, 182
- 3: **Trump, J. R.** et al. 2006, *A Catalog of Broad Absorption Line Quasars from the Sloan Digital Sky Survey Third Data Release*, ApJS, 165, 1
- 2: Yip, C. W. et al. **including J. R. Trump** 2004, *Spectral Classification of Quasars in the Sloan Digital Sky Survey: Eigenspectra, Redshift, and Luminosity Effects*, AJ, 128, 2603
- 1: Schneider, D. P. et al. **including J. R. Trump** 2003, *The Sloan Digital Sky Survey Quasar Catalog. II. First Data Release*, AJ, 126, 2579

Non-Refereed Publications

- 2: **Trump, J. R.** et al. 2007, *A Multiwavelength Study of AGN with COSMOS: Do Low-Eddington Ratio Type 1 Exist?*, ASPC, 373, 726
- 1: **Trump, J. R.**, Schneider, D. P., & Richards, G. T. 2007, *Clustering of Identical Quasars in the SDSS First Data Release*, ASPC, 311, 467

Conference Presentations

- 2009 **Contributed Talk** at Cosmic Evolution Survey Team Meeting, Matsuyama, Japan, *Obscuration and Fueling of AGN in COSMOS*
- 2008 **Contributed Talk** at The Starburst-AGN Connection, Shanghai, China, *Linking Star Formation and AGN Obscuration with COSMOS*
- 2007 **Contributed Talk** at Galaxy and Black Hole Evolution: Towards a Unified View, Tucson, AZ, *COSMOS AGN: Fainter and Smaller*
- 2007 **Contributed Talk** at Cosmic Evolution Survey Workshop, New York, NY, *COSMOS IMACS Spectroscopy: Fainter and Smaller AGN*
- 2007 **Contributed Talk** at Physics and Astrophysics of Supermassive Black Holes, Santa Fe, NMA *Lower Limit on Eddington Ratio in Type 1 AGN*
- 2006 **Poster** at The Central Engine of Active Galactic Nuclei, Xi'an, China, *A Multi-wavelength Study of AGN with COSMOS: Do Low-Eddington Ratio Type 1 AGN Exist?*
- 2006 **Poster** at Meetings of the American Astronomical Society, Washington, DC, *A Spectroscopic Survey of AGN in COSMOS*
- 2005 **Contributed Talk** at Cosmic Evolution Survey Workshop, Kyoto, Japan, *COSMOS: Key Questions for AGN*
- 2005 **Poster** at Meetings of the American Astronomical Society, San Diego, CA, *Galaxy Groups in a Cosmological Simulation: X-Ray Scaling Relations*
- 2004 **Poster** at Meetings of the American Astronomical Society, Atlanta, GA, *Broad Absorption Line Quasars from the Sloan Digital Sky Survey Second Data Release*
- 2003 **Poster** at AGN Physics with the Sloan Digital Sky Survey, Princeton, NJ, *Clustering of Identical Quasars in the SDSS First Data Release,*

Seminars/Colloquia

- 2009 Harvard/CfA, Optical/IR Observer's Seminar
- 2008 Caltech, Afternoon Tea Talk
- 2008 University of Hawaii, Extragalactic Seminar
- 2008 Kyoto University, Extragalactic Observers' Seminar
- 2008 Ehime University, Special Visiting Researcher Colloquium

Other Talks

- 2009 Friday Lunch Series at NOAO, Tucson, AZ, *The Nature of Optically Dull AGN*
- 2008 NSF/JSPS Closing Session (popular-level talk), Tokyo, Japan, *What I Learned on my NSF/JSPS Summer Fellowship*
- 2008 Friday Lunch Series at NOAO, Tucson, AZ, *AGN Fueling & Obscuration: Probing the lower limits of AGN activity with COSMOS*
- 2007 Arizona Astronomy Board (popular-level talk), Tucson, AZ, *Quasars and Their Galaxies: Searching for Systems More Like Our Own*
- 2007 Steward Galaxy Group, Tucson, AZ, *Conference Summary: The Central Engine of Active Galactic Nuclei*
- 2007 Steward Observatory Internal Symposium, Tucson, AZ, *The COSMOS AGN Survey*
- 2005 Steward Galaxy Group, Tucson, AZ, *Abundance Patterns in Galaxy Clusters*