

Curriculum Vitae

Jonathan R. Trump

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Professional Appointments

8/2016-current	Assistant Professor, Dept of Physics, University of Connecticut
9/2013-8/2016	Hubble Fellow, Penn State University
9/2010-8/2013	DEEP Postdoctoral Scholar, UC Santa Cruz
7/2004-8/2010	Graduate Researcher, University of Arizona
6/2008-8/2008	NSF/JSPS Summer Research Fellow, Ehime University
1/2002-6/2004	Undergraduate Researcher, Penn State University

Education

2010	Ph.D	University of Arizona, <i>Astronomy</i> , Thesis: Supermassive Black Hole Activity in the Cosmic Evolution Survey (advisor: Chris Impey)
2004	B.S.	Penn State University, <i>Astronomy, summa cum laude</i> , Honors Thesis: Broad Absorption Line Quasars in the Sloan Digital Sky Survey
2004	B.S.	Penn State University, <i>Physics, summa cum laude</i>

Successful Proposals (selected) - \$1.5M in active grants

2020	PI, NSF CAREER: <i>Echo Mapping the Census of Supermassive Black Hole Mass, Accretion, and Spin</i> , \$740k
2019	PI, NASA ADAP: <i>Spectral Energy Distributions of Echo-Mapped Quasars</i> , \$540k
2018	PI, HST proposal: <i>Ultraviolet Echoes of Quasar Accretion Disks</i> , 40 orbits, \$208k
2017	co-I, JWST ERS proposal: <i>The Cosmic Evolution Early Release Science Survey</i> , 63 hrs, \$130k (as co-I)
2017	PI, HST proposal: <i>Ultraviolet Echoes of Quasar Accretion Disks</i> , 32 orbits, \$135k
2015	co-PI, NSF AAG: <i>The First Multi-Object Reverberation Mapping Survey: Transforming Our Knowledge of Distant Black Hole Demographics</i> , \$340k
2015	co-I, HST proposal: <i>The CANDELS Lyman-alpha Emission At Reionization (CLEAR) Experiment</i> , 130 orbits, \$12k (as co-I)
2012	PI, HST archive proposal: <i>Do Typical Galaxies in Adolescence Already Host Growing Black Holes?</i> , \$91k
2009	PI, NSF Doctoral Dissertation Enhancement Grant, \$35k
2008	PI, NSF/JSPS East Asia & Pacific Summer Institutes Fellowship, \$10k
2013	PI, Keck proposal: <i>Spatial Maps of SFR, Kinematics, and Line Ratios of $z \sim 1.5$ Galaxies from Multi-PA / Multi-Slit MOSFIRE Spectra</i> , 3 nights
2012	PI, Keck proposal: <i>MOSFIRE Survey of $z \sim 2$ Emission-Line Galaxies</i> , 2.5 nights
2011	PI, Keck proposal: <i>Connecting AGN Winds to Galactic Feedback</i> , 1 night
2011	PI, Lick proposal: <i>Testing RIAFs in AGNs with Polarimetry</i> , 3 nights
2010	PI, Subaru prop.: <i>Optically Dull AGN: Obscured, Diluted, or Inefficient?</i> , 2 nights
2010	PI, MMT & Bok proposal: <i>SMBH Masses with Reverberation Mapping</i> , 14 nights
2007-8	co-PI, Magellan & MMT proposal: <i>COSMOS: The Coevolution of High Redshift Galaxies and Supermassive Black Holes</i> , 25 nights

Honors & Awards

2020	NSF CAREER Award (\$740k)
2013	Hubble Fellowship (\$320k)
2010	Steward Observatory Outstanding Research Award
2008-2009	Achievement Rewards for College Scientists, Papadoupoulos Scholar
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

HST	–	ACS and WFC3 imaging, WFC3 grism spectroscopy
Keck 10 m	13 nights	OSIRIS IFU (AO), DEIMOS, NIRSPEC, & MOSFIRE
Subaru 8.2 m	2 nights	FOCAS spectropolarimetry
Magellan 6.5 m	14 nights	IMACS multi-object slit spectrograph
MMT 6.5 m	10 nights	Hectospec multi-object fiber spectrograph
Shane 3.0 m	11 nights	KAST spectroscopy and imaging polarimetry
Bok 2.3 m	10 nights	90prime imaging camera

Professional Experience

2003-2019	45 Invited colloquia/talks & 70+ Contributed seminars/talks presented
2008-2019	Referee for Nature, ApJ, MNRAS, A&A journals
2014-2019	Service on NSF, Hubble, Chandra, NESSF, NPP review panels
2018-current	SDSS-V Targeting and Cadence Coordinator for Black Hole Mapper
2017-current	co-I on CETUS NASA probe-class mission concept
2016-current	Chair of UConn Astrophysics Curriculum development
2014-current	SDSS-RM Team Lead for spectroscopic variability
2016	Service on Kavli LSST community workshop / white paper
2013-2016	Chair of Spectroscopy and Junior Scientist working groups, CANDELS
2009-2010	Science Advisory Board for the Magellan/M2FS instrument

Mentoring, Teaching & Outreach

2016-current	Thesis Advisor for 4 UConn grad and 7 undergrad students
2017-2019	Provost's Recognition of Excellence in Teaching (every semester)
2018	Press Release: <i>One Giant Leap in Mapping the Universe</i>
2017	Co-organizer of UConn eclipse event: 2000 attendees and local press
2017	TEDx "Catalysts in Context" talk (youtu.be/Cp5bP7lpL2E)
2007-2017	4 popular-level invited lectures
2013-2015	Primary mentor for PSU graduate student M. Sun (now USTC postdoc)
2011-2015	Primary mentor for 5 high school students, incl. 2 Intel/Siemens awardees
2015	Bok Award Judge for Intel International Science Fair
2012-2013	Primary mentor for UCSC undergrad T. Carmichael (now Harvard grad)
2011	Press Release: <i>Small distant galaxies host supermassive black holes</i>
2010	Press Release: <i>A New Form of Black Hole Accretion</i>
2008	Creator of "Astronomy in English" lecture series, Ehime University

Bibliography: Jonathan R. Trump

>12,000 total citations, h-index: 56

Refereed Publications: 1st & 2nd-author, and student-mentored

- 26: Fonseca Alvarez, G., **Trump, J. R.**, Homayouni, Y. et al. 2020, *The Sloan Digital Sky Survey Reverberation Mapping Project: The H β Radius-Luminosity Relation*, ApJ submitted (arXiv:1910.10719)
- 25: Homayouni, Y., **Trump, J. R.**, Grier, C. J. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: Accretion-Disk Sizes from Continuum Lags*, ApJ, 880, 126
- 24: Grier, C. J., **Trump, J. R.**, Shen, Y. et al. 2017, ApJ, 851, 21 *The Sloan Digital Sky Survey Reverberation Mapping Project: and Reverberation Measurements from first-year Spectroscopy and Photometry*, ApJ, 851, 21
- 23: Simons, R. S., Kassin, S. A, **Trump, J. R.** et al. 2016, *SIGMA I: Kinematics of Star-Forming Galaxies at $z \sim 2$ with Keck/MOSFIRE*, ApJ, 830, 14
- 22: Bridge, J. S., Zeimann, G. R., **Trump, J. R.** et al. 2016, *Disentangling Active Galactic Nuclei and Star Formation at High Redshift Using Hubble Space Telescope Grism Spectroscopy*, ApJ, 826, 172
- 21: Wirth, G. D., **Trump, J. R.** et al. 2015, *The Team Keck Redshift Survey 2: MOSFIRE Spectroscopy of the GOODS-North Field*, AJ, 150, 153
- 20: Sun, M., **Trump, J. R.** et al. 2015, *The Sloan Digital Sky Survey Reverberation Mapping Project: Ensemble Spectroscopic Variability of Quasar Broad Emission Lines*, ApJ, 811, 42
- 19: **Trump, J. R.** et al. 2015, *The Biases of Optical Line-Ratio Selection for Active Galactic Nuclei, and the Intrinsic Relationship between Black Hole Accretion and Galaxy Star Formation*, ApJ, 811, 27
- 18: Morris, A., Kocevski, D. D., **Trump, J. R.** et al. 2015, *A HST/WFC3 Grism Spectroscopic Redshift Catalog in the GOODS-South Field*, AJ, 149, 178
- 17: Sun, M., **Trump, J. R.** et al. 2015, *Evolution in the Black Hole – Galaxy Relations and the Duty Cycle of Nuclear Activity in Star-Forming Galaxies*, ApJ, 802, 14
- 16: Cheung, E., **Trump, J. R.** et al. 2015, *Galaxy Zoo: Are Bars Responsible for the Feeding of Active Galactic Nuclei at $0.2 < z < 1.0$?*, MNRAS, 447, 506
- 15: Barro, G., **Trump, J. R.** et al. 2014, *Keck/MOSFIRE Spectroscopy of Compact Star-Forming Galaxies at $z > 2$: High Velocity Dispersions in Progenitors of Compact Quiescent Galaxies*, ApJ, 795, 145
- 14: **Trump, J. R.** et al. 2014, *No More Active Galactic Nuclei in Clumpy Disks Than in Smooth Galaxies at $z \sim 2$ in CANDELS / 3D-HST*, ApJ, 793, 101
- 13: Yesuf, H. M., Faber, S. M., **Trump, J. R.** et al. 2014, *From Starburst to Quiescence: Testing AGN feedback in Rapidly Quenching Post-Starburst Galaxies*, ApJ, 792, 84
- 12: Schneider, E. E., Impey, C. D., **Trump, J. R.**, Salvato, M. 2013, *Steps Toward Unveiling the True Population of Active Galactic Nuclei: Photometric Characterization of Active Galactic Nuclei in COSMOS*, ApJ, 766, 123
- 11: **Trump, J. R.** et al. 2013, *A Census of Broad-Line Active Galactic Nuclei in Nearby Galaxies: Coeval Star Formation and Rapid Black Hole Growth*, ApJ, 763, 133
- 10: **Trump, J. R.** et al. 2013, *Testing Diagnostics of Nuclear Activity and Star Formation in Galaxies at $z > 1$* , ApJ, 763, 6
- 9: **Trump, J. R.** et al. 2011, *A CANDELS WFC3 Grism Study of Emission-Line Galaxies at $z \sim 2$: A Mix of Nuclear Activity and Low-Metallicity Star Formation*, ApJ, 743, 144
- 8: **Trump, J. R.** et al. 2011, *Accretion Rate and the Physical Nature of Unobscured Active Galaxies*, ApJ, 733, 60
- 7: **Trump, J. R.** et al. 2011, *Spectropolarimetric Evidence for Radiatively Inefficient Accretion in an Optically Dull Active Galaxy*, ApJ, 732, 23

- 6: **Trump, J. R.** et al. 2009, *The Nature of Optically Dull Active Galactic Nuclei in COSMOS*, ApJ, 706, 797
- 5: **Trump, J. R.** et al. 2009, *Observational Limits on Type 1 AGN Accretion Rate in COSMOS*, ApJ, 700, 49
- 4: **Trump, J. R.** et al. 2009, *The COSMOS Active Galactic Nucleus Spectroscopic Survey. I. XMM-Newton Counterparts*, ApJ, 696, 1195
- 3: 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
- 2: **Trump, J. R.** et al. 2007, *Magellan Spectroscopy of AGN Candidates in the COSMOS Field*, ApJS, 172, 383
- 1: **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

Other Co-Author Publications

- 116: Grier, C. J., Shen, Y., Horne, K. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: Initial C IV Lag Results from Four Years of Data*, ApJ, 887, 38
- 115: Dexter, J., Xin, S., Shen, Y. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: Accretion and Broad Emission Line Physics from a Hypervariable Quasar*, ApJ, 885, 44
- 114: Zhou, R. et al. 2019, *Deep ugrizY imaging and DEEP2/3 spectroscopy: a photometric redshift testbed for LSST and public release of data from the DEEP3 Galaxy Redshift Survey*, MNRAS, 488, 4565
- 113: I-Hsui Li, J.; Shen, Y., Brandt, W. N. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: Comparison of Lag Measurement Methods with Simulated Observations*, ApJ, 884, 119
- 112: Shen, Y., Grier, C. J., Horne, K. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: Improving Lag Detection with an Extended Multiyear Baseline*, 2019, ApJ, 883, 14
- 111: Wang, S., Shen, Y., Jiang, L. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: Low-ionization Broad-line Widths and Implications for Virial Black Hole Mass Estimation*, ApJ, 882, 4
- 110: Barro, G. et al. 2019, *The CANDELS/SHARDS Multiwavelength Catalog in GOODS-N: Photometry, Photometric Redshifts, Stellar Masses, Emission-line Fluxes, and Star Formation Rates*, ApJS, 243, 22
- 109: Shen, Y. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: Sample Characterization*, ApJS, 241, 34
- 108: Hemler, Z. S. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: Systematic Investigations of Short-timescale C IV Broad Absorption Line Variability*, ApJ, 872, 21
- 107: Sun, M., Yue, X., Trump, J. R. & Gu, W.-M. 2019, *Winds Can "Blow Up" AGN Accretion Disk Sizes*, MNRAS, 482, 2788
- 106: Estrada-Carpenter, V. et al. 2019, *CLEAR I: Ages and Metallicities of Quiescent Galaxies at $1.0 < z < 1.8$ Derived from Deep Hubble Space Telescope Grism Data*, ApJ, 870, 133
- 105: Yang, G., Brandt, W. N., Darvish, B. et al. 2018, *Does black-hole growth depend on the cosmic environment?*, MNRAS, 480, 1022
- 104: Chen, C.-T. J., Brandt, W. N., Luo, B. et al. 2018, *The XMM-SERVS survey: new XMM-Newton point-source catalog for the XMM-LSS field*, MNRAS, 478, 2132
- 103: Yue, M., Jiang, L., Shen, Y. et al. 2018, *The Sloan Digital Sky Survey Reverberation Mapping Project: Quasar Host Galaxies at $z < 0.8$ from Image Decomposition*, ApJ, 863, 21
- 102: De Cicco, D. et al. 2018, *C IV BAL disappearance in a large SDSS QSO sample*, A&A, 616, 114

- 101: Fang, J. J., Faber, S. M., Koo, D. C. et al. 2018, *Demographics of Star-forming Galaxies since $z \sim 2.5$. I. The UVJ Diagram in CANDELS*, ApJ, 858, 100
- 100: Yang, G. et al. 2018, *Linking black-hole growth with host galaxies: The accretion-stellar mass relation and its cosmic evolution*, MNRAS, 475.1887
- 99: Sun, M., Xue, Y., Richards, G. T., Trump, J. R., Shen, Y., Brandt, W. N. & Schneider, D. P. 2018, *The Sloan Digital Sky Survey Reverberation Mapping Project: The C IV Blueshift, Its Variability, and Its Dependence Upon Quasar Properties*, ApJ, 854, 128
- 98: Donley, J. L. et al. 2018, *Evidence for Merger-driven Growth in Luminous, High- z , Obscured AGNs in the CANDELS/COSMOS Field*, ApJ, 853, 63
- 97: Albareti, F. D. et al. 2017, *The 13th Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey Mapping Nearby Galaxies at Apache Point Observatory*, MNRAS, 475.1887
- 96: Kocevski, D. D. et al. 2017, *CANDELS: Elevated Black Hole Growth in the Progenitors of Compact Quiescent Galaxies at $z \sim 2$* , ApJ, 846, 112
- 95: Li, J. et al. 2017, *The Sloan Digital Sky Survey Reverberation Mapping Project: Composite Lags at $z \lesssim 1$* , ApJ, 846, 79
- 94: Simons, R. C. et al. 2017, *$z \sim 2$: An Epoch of Disk Assembly*, ApJ, 843, 46
- 93: Yang, G. et al. 2017, *Black Hole Growth Is Mainly Linked to Host-galaxy Stellar Mass Rather Than Star Formation Rate*, ApJ, 842, 72
- 92: Barro, G. et al. 2017, *Structural and Star-forming Relations since $z \sim 3$: Connecting Compact Star-forming and Quiescent Galaxies*, ApJ, 840, 47
- 91: Villforth, C. et al. 2017, *Host galaxies of luminous $z \sim 0.6$ quasars: major mergers are not prevalent at the highest AGN luminosities*, MNRAS, 466, 812
- 90: Yi, W. et al. 2017, *The Physical Constraints on a New LoBAL QSO at $z = 4.82$* , ApJ, 838, 135
- 89: Chen, C.-T. J. et al. 2017, *Hard X-Ray-selected AGNs in Low-mass Galaxies from the NuSTAR Serendipitous Survey*, ApJ, 837, 48
- 88: Guo, Y. et al. 2016, *The Bursty Star Formation Histories of Low-mass Galaxies at $0.4 < z < 1$ Revealed by Star Formation Rates Measured from FUV and H β* , ApJ, 833, 37
- 87: Denney, K. D. et al. 2016, *The Sloan Digital Sky Survey Reverberation Mapping Project: Biases in $z > 1.46$ Redshifts due to Quasar Diversity*, ApJ, 833, 33
- 86: Vito, F. et al. 2016, *The deepest X-ray view of high-redshift galaxies: constraints on low-rate black-hole accretion*, MNRAS, 463, 348
- 85: Shen, Y. et al. 2016, *The Sloan Digital Sky Survey Reverberation Mapping Project: Velocity Shifts of Quasar Emission Lines*, ApJ, 831, 7
- 84: Barro, G. et al. 2016, *Sub-kiloparsec ALMA Imaging of Compact Star-forming Galaxies at $z \sim 2.5$: Revealing the Formation of Dense Galactic Cores in the Progenitors of Compact Quiescent Galaxies*, ApJ, 827, 32
- 83: Lehmer, B. D. et al. 2016, *The Evolution of Normal Galaxy X-ray Emission Through Cosmic History: Constraints from the 6 Ms Chandra Deep Field-South*, ApJ, 825, 7
- 82: Denney, K. D. et al. 2016, *The Sloan Digital Sky Survey Reverberation Mapping Project: An Investigation of Biases in C IV Emission Line Properties*, 2016, ApJS, 224, 14
- 81: Grier, C. J. et al. 2016, *CIV Broad Absorption Line Acceleration in Sloan Digital Sky Survey Quasars*, ApJ, 824, 130
- 80: Guo, Y. et al. 2016, *Stellar Mass–Gas-phase Metallicity Relation at $0.5 \leq z \leq 0.7$: A Power Law with Increasing Scatter toward the Low-mass Regime*, ApJ, 822, 103
- 79: Rosario, D. J. et al. 2016, *Local SDSS galaxies in the Herschel Stripe 82 survey: a critical assessment of optically derived star formation rates*, MNRAS, 457, 2703
- 78: Barro, B. et al. 2016, *Caught in the act: gas and stellar velocity dispersions in a fast quenching compact star-forming galaxy at $z \sim 1.7$* , ApJ, 820, 120

- 77: Shen, Y. et al. 2016, *The Sloan Digital Sky Survey Reverberation Mapping Project: First Broad-line H β and MgII Lags at $z > 0.3$ from Six-Month Spectroscopy*, ApJ, 818, 30
- 76: Hagen, A. et al. 2016, *HST Emission Line Galaxies at $z \sim 2$: Comparing Physical Properties of Lyman Alpha and Optical Emission Line Selected Galaxies*, ApJ, 817, 79
- 75: Grasshorn Gebhardt, H. S. et al. 2016, *Young, Star-forming Galaxies and their local Counterparts: the Evolving Relationship of Mass-SFR-Metallicity since $z \sim 2.1$* , ApJ, 817, 10
- 74: Zeimann, G. R. et al. 2015, *The Dust Attenuation Curve versus Stellar Mass for Emission Line Galaxies at $z \sim 2$* , ApJ, 814, 162
- 73: Kocevski, D. D. et al. 2015, *Are Compton-Thick AGN the Missing Link Between Mergers and Black Hole Growth?*, ApJ, 814, 104
- 72: Kartaltepe, J. S. et al. 2015, *CANDELS Visual Classifications: Scheme, Data Release, and First Results*, ApJS, 221, 11
- 71: Matsuoka, Y. et al. 2015, *The Sloan Digital Sky Survey Reverberation Mapping Project: Post-Starburst Signatures in Quasar Host Galaxies at $z < 1$* , ApJ, 811, 91
- 70: Richards, G. T. et al. 2015, *Bayesian High-redshift Quasar Classification from Optical and Mid-IR Photometry*, ApJS, 219, 39
- 69: Grier, C. J. et al. 2015, *The Sloan Digital Sky Survey Reverberation Mapping Project: Rapid CIV Broad Absorption Line Variability*, ApJ, 806, 111
- 68: Shen, Y. et al. 2015, *The Sloan Digital Sky Survey Reverberation Mapping Project: No Evidence for Evolution in the $M_{BH} - \sigma_*$ Relation to $z \sim 1$* , ApJ, 805, 96
- 67: Williams, C. C. et al. 2015, *The Interstellar Medium and Feedback in the Progenitors of the Compact Passive Galaxies at $z \sim 2$* , ApJ, 800, 21
- 66: Shen, Y. et al. 2015, *The Sloan Digital Sky Survey Reverberation Mapping Project: Technical Overview*, ApJS, 216, 4
- 65: Zeimann, G. R. et al. 2015, *Hubble Space Telescope Emission-line Galaxies at $z \sim 2$: The Mystery of Neon*, ApJ, 798, 29
- 64: Rosario, D. J. et al. 2015, *The host galaxies of X-ray selected Active Galactic Nuclei to $z = 2.5$: Structure, star-formation and their relationships from CANDELS and Herschel/PACS*, A&A, 573, 85
- 63: Hsu, L.-T. et al. 2014, *CANDELS/GOODS-S, CDFS, ECDFS: Photometric Redshifts For Normal and for X-Ray-Detected Galaxies*, ApJ, 796, 60
- 62: Filiz Ak, N., Brandt, W. N., Hall, P. B., Schneider, D. P., **Trump, J. R.** et al. 2014, *The Dependence of C IV Broad Absorption Line Properties on Accompanying Si IV and Al III Absorption: Relating Quasar-Wind Ionization Levels, Kinematics, and Column Densities*, ApJ, 791, 88
- 61: Barro, G., Faber, S. M., Perez-Gonzalez, P. G., Pacifici, C. **Trump, J. R.** et al. 2014, *CANDELS+3D-HST: Compact Star-Forming Galaxies at $z \sim 2 - 3$, the Progenitors of the First Quiescent Galaxies*, ApJ, 791, 52
- 60: Maseda, M. V. et al. 2014, *The Nature of Extreme Emission Line Galaxies at $z = 1 - 2$: Kinematics and Metallicities from Near-Infrared Spectroscopy*, ApJ, 791, 17
- 59: Zeimann, G. R. et al. 2014, *3D-HST Emission Line Galaxies at $z \sim 2$: Discrepancies in the Optical/UV Star Formation Rates*, ApJ, 790, 113
- 58: Rodney, S. A. et al. 2014, *Type Ia Supernova Rate Measurements to Redshift 2.5 from CANDELS: Searching for Prompt Explosions in the Early Universe*, AJ, 148, 13
- 57: Rangel, C. et al. 2014, *Evidence for two modes of black hole accretion in massive galaxies at $z \sim 2$* , MNRAS, 440, 3630
- 56: Juneau, S., Bournaud, F., Charlot, S., Daddi, E., Elbaz, D., **Trump, J. R.** et al. 2014, *AGN Emission Line Diagnostics and the Mass-Metallicity Relation up to Redshift $z \sim 2$: the Impact of Selection Effects*, ApJ, 788, 8
- 55: Elitzur, M., Ho, L. C. & Trump, J. R. 2014, *Evolution of Broad-line Emission from Active Galactic Nuclei*, MNRAS, 438, 3340

- 54: Hao, H. et al. 2014, *Spectral energy distributions of type 1 AGN in XMM-COSMOS - II. Shape evolution*, MNRAS, 438, 1288
- 53: Lanzuisi, G. et al. 2014, *Active Galactic Nucleus X-Ray Variability in the XMM-COSMOS Survey*, ApJ, 781, 105
- 52: Rosario, D. J., Trakhtenbrot, B., Lutz, D., Netzer, H., **Trump, J. R.** et al. 2013, *The mean star-forming properties of QSO host galaxies*, A&A, 560, 72
- 51: Maseda, M. V. et al. 2013, *Confirmation of Small Dynamical and Stellar Masses for Extreme Emission Line Galaxies at $z \sim 2$* , ApJ, 778, 22
- 50: Heng, H. et al. 2013, *A Quasar-Galaxy Mixing Diagram: Quasar Spectral Energy Distribution Shapes in the Optical to Near-Infrared*, MNRAS, 434, 3104
- 49: Matsuoka, K. et al. 2013, *A Comparative Analysis of Virial Black Hole Mass Estimates of Moderate-luminosity Active Galactic Nuclei Using Subaru/FMOS*, ApJ, 771, 64
- 48: Liu, F. S., Guo, Y., Koo, D. C., Trump, J. R. et al. 2013, *Serendipitous Discovery of a Massive cD Galaxy at $z = 1.096$: Implications for the Early Formation and Late Evolution of cD Galaxies*, ApJ, 769, 147
- 47: Barro, G. et al. 2013, *CANDELS: The Progenitors of Compact Quiescent Galaxies at $z \sim 2$* , ApJ, 765, 104
- 46: Juneau, S. et al. 2013, *Widespread and Hidden Active Galactic Nuclei in Star-forming Galaxies at Redshift > 0.3* , ApJ, 764, 176
- 45: Elvis, M. et al. 2012, *Spectral Energy Distributions of Type 1 AGN in the COSMOS Survey I - The XMM-COSMOS Sample*, ApJ, 759, 6
- 44: Masters, D. et al. 2012, *Evolution of the Quasar Luminosity Function Over $3 < z < 5$ in the COSMOS Survey Field*, ApJ, 755, 169
- 43: Lusso, E. et al. 2012, *Bolometric Luminosities and Eddington Ratios of X-ray Selected Active Galactic Nuclei in the XMM-COSMOS Survey*, MNRAS, 425, 623
- 42: Civano, F. et al. 2012, *The Chandra COSMOS Survey: III. Optical and Infrared Identification of X-ray Point Sources*, ApJS, 201, 30
- 41: Donley, J. L. et al. 2012, *Identifying Luminous Active Galactic Nuclei in Deep Surveys: Revised IRAC Selection Criteria*, ApJ, 748, 142
- 40: Ideue, Y., Taniguchi, Y., Nagao, T., Shioya, Y., Kajisawa, M., Trump, J. R. et al. 2012, *The Role of Galaxy Interaction in Environmental Dependence of the Star Formation Activity at $z \simeq 1.2$* , ApJ, 747, 42
- 39: Iwasawa, K. et al. 2012, *Fe K emission from active galaxies in the COSMOS field*, A&A, 537, 86
- 38: Georgakakis, A. et al. 2011, *Observational constraints on the physics behind the evolution of AGN since $z \sim 1$* , MNRAS, 418, 2590
- 37: Koekoener, A. M. et al. 2011, *CANDELS: The Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey - The Hubble Space Telescope Observations, Imaging Data Products and Mosaics*, ApJS, 197, 36
- 36: Grogin, N. A. et al. 2011, *CANDELS: The Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey*, ApJS, 197, 35
- 35: Kocevski, D. D. et al. 2011, *CANDELS: Constraining the AGN-Merger Connection with Host Morphologies at $z \sim 2$* , ApJ, 744, 148
- 34: Barth, A. J. et al. 2011, *The Lick AGN Monitoring Project 2011: Reverberation Mapping of Markarian 50*, ApJ, 743, 4
- 33: van der Wel, A. et al. 2011, *Extreme Emission Line Galaxies in CANDELS: Broad-Band Selected, Star-Bursting Dwarf Galaxies at $z > 1$* , ApJ, 742, 111
- 32: Salvato, M. et al. 2011, *Dissecting Photometric redshift for Active Galactic Nuclei using XMM- and Chandra-COSMOS samples*, ApJ, 742, 61
- 31: Cisternas, M. et al. 2011, *Secular evolution and a non-evolving black hole to galaxy mass ratio in the last 7 Gyr*, ApJ, 741, 11
- 30: Mainieri, V. et al. 2011, *Black Hole Accretion and Host Galaxies of Obscured Quasars in XMM-COSMOS*, A&A, 535, 80

- 29: Lusso, E. et al. 2011, *The bolometric output and host-galaxy properties of obscured AGN in the XMM-COSMOS survey*, A&A, 534, 110
- 28: Ikeda, H., Nagao, T., Matsuoaka, K., Taniguchi, Y., Shioya, Y., Trump, J. R. et al. 2011, *Probing the Faint End of the Quasar Luminosity Function at $z \sim 4$ in the COSMOS field*, ApJ, 728, 25
- 27: Cisternas, M. et al. 2011, *The Bulk of the Black Hole Growth Since $z \sim 1$ Occurs in a Secular Universe: No Merger-AGN Connection*, ApJ, 726, 57
- 26: Taniguchi, Y., Shioya, Y. & Trump, J. R. 2010, *Low-Metallicity Star Formation in High-Redshift Galaxies at $z \sim 8$* , ApJ, 724, 1480
- 25: Kartaltepe, Jeyhan S. et al. 2010, *A Multiwavelength Study of a Sample of $70\mu\text{m}$ Selected Galaxies in the COSMOS Field. II. The Role of Mergers in Galaxy Evolution*, ApJ, 721, 98
- 24: Civano, F. et al. 2010, *A Runaway Black Hole in COSMOS: Gravitational Wave or Slingshot Recoil?*, ApJ, 717, 209
- 23: Mainieri, V. et al. 2010, *Ultraluminous X-ray Sources Out To $z \sim 0.3$ in the COSMOS Field*, A&A, 514, 85
- 22: Lusso, E. et al. 2010, *The X-ray to Optical/UV Luminosity Ratio of X-ray Selected Type 1 AGN in XMM-COSMOS*, A&A, 512, 34
- 21: Kartaltepe, Jeyhan S. et al. 2010, *A Multiwavelength Study of a Sample of $70\mu\text{m}$ Selected Galaxies in the COSMOS Field. I. Spectral Energy Distributions and Luminosities*, ApJ, 709, 572
- 20: Merloni, A. et al. 2009, *On the Cosmic Evolution of the Scaling Relations Between Black Holes and Their Host Galaxies: Broad Line AGN in the zCOSMOS Survey*, ApJ, 708, 137
- 19: Jahnke, K. et al. 2009, *Massive Galaxies in COSMOS: Evolution of Black hole vs. Bulge Mass but not vs. Total Stellar Mass Over the Last 9 Gyrs?*, ApJL, 706, 215
- 18: Hao, H. et al. 2010, *Host-Dust-Poor Type 1 AGNs in the COSMOS Survey*, ApJ, 704, 59
- 17: Taniguchi, Y. et al. 2009, *HST/ACS Morphology of Ly α Emitters at Redshift 5.7 in the COSMOS Field*, ApJ, 701, 915
- 16: Ideue, Y. et al. 2009, *Environmental Effects on the Star Formation Activity in Galaxies at $z \simeq 1.2$ in the COSMOS Field*, ApJ, 700, 9711
- 15: Shioya, Y. et al. 2009, *Photometric Properties of Ly α Emitters at $z \sim 4.86$ in the COSMOS 2 Square Degree Field*, ApJ, 696, 546
- 14: Smolčić, V. et al. 2009, *Cosmic Evolution of Radio Selected Active Galactic Nuclei in the Cosmos Field*, ApJ, 696, 24
- 13: Fiore, F. et al. 2009, *Chasing highly obscured QSOs in the COSMOS field*, ApJ, 693, 447
- 12: Brusa, M. et al. 2009, *High redshift quasars in the COSMOS survey: the space density of $z > 3$ X-ray selected QSOs*, ApJ, 693, 8
- 11: Gabor, J. M., Impey, C. D., Jahnke, K., Simmons, B. D., **Trump, J. R.** et al. 2009, *AGN Host Galaxy Morphologies in COSMOS*, ApJ, 691, 705
- 10: Salvato, M. et al. 2009, *Photometric redshift and classification for the XMM-COSMOS sources*, ApJ, 690, 1250
- 9: Gilli, R. et al. 2009, *The spatial clustering of X-ray selected AGN in the XMM-COSMOS field*, A&A, 494, 33
- 8: 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
- 7: Smolčić, V. et al. 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
- 6: Mainieri, V. et al. 2007, *The XMM-Newton Wide-Field Survey in the COSMOS Field. IV. X-Ray Spectral Properties of AGN*, ApJS, 172, 368

- 5: Brusa, M. et al. 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
- 4: Smolčić, V. et al. 2007, *A Wide-Angle Tail Radio Galaxy in the COSMOS Field: Evidence for Cluster Formation*, ApJS, 172, 295
- 3: Finoguenov, A. et al. 2007, *The XMM-Newton Wide-Field Survey in the COSMOS Field: Statistical Properties of Galaxy Clusters*, ApJS, 172, 182
- 2: Yip, C. W. et al. 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. 2003, *The Sloan Digital Sky Survey Quasar Catalog. II. First Data Release*, AJ, 126, 2579

Non-Refereed Publications

- 6: Trump, J. R., Cooray, A., Garrison-Kimmel, S., Haussler, B. Pancoast, A. 2019, *Astro 2020 State of the Profession White Paper: Realistic Job Training for Astro PhDs*
- 5: Najita, J. et al. 2016, *Maximizing Science in the Era of LSST: A Community-Based Study of Needed US Capabilities*, arXiv:1610.01661
- 4: Cooray, A., Abate, A., Häußler, B., Trump, J. R., Williams, C. C. 2015, *Astronomy Job Crisis*, arXiv:1512.02223
- 3: Trump, J. R. 2013, *Host Galaxy Morphology and the AGN Unified Model*, ASPC, 477, 227
- 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

Talks & Presentations: Jonathan R. Trump

- 2019 **Invited Colloquium** at Xiamen University, Xiamen, China, *Mapping the Census of Supermassive Black Holes*
- 2019 **Invited Talk** at the Mapping Central Regions of Active Galactic Nuclei conference, Guilin, China, *The Industrial-Scale Future of Reverberation Mapping*
- 2019 **Contributed Talk** at the SDSS Collaboration Meeting, Ensenada, Mexico *The Sloan Digital Sky Survey Reverberation Mapping (SDSS-RM) Project*
- 2019 **Invited Talk** at the SDSS Collaboration Meeting, Ensenada, Mexico *Reverberation Mapping 101: Light Echoes of Black Hole Physics*
- 2019 **Invited Colloquium** at the University of Wisconsin Milwaukee, *Mapping the Census of Supermassive Black Holes*
- 2019 **Invited Colloquium** at Wayne State University, *Mapping the Census of Supermassive Black Holes*
- 2019 **Invited Colloquium** at Vanderbilt University, *Multi-Messenger Echoes of Supermassive Black Holes*
- 2019 **Invited Colloquium** at the University of Utah, *The Birth and Growth of Black Holes: Inferring the Supermassive BH Census from Massive Surveys*
- 2019 **Contributed Talk** at AAS Meeting, Seattle, WA, *Mapping Black Holes with SDSS-RM*
- 2019 **Contributed Talk** at AAS Special Session, Seattle, WA, *Future Prospects for Multimessenger Astrophysics with Supermassive Black Holes*
- 2018 **Contributed Talk** at CLEAR team meeting, Cooks Branch, TX *AGN and ISM with CLEAR... and beyond...*
- 2018 **Invited Colloquium** at Colby College, *Mapping the Census of Supermassive Black Holes*
- 2018 **Invited Colloquium** at Trinity College, *Mapping the Census of Supermassive Black Holes*
- 2018 **Contributed Talk** at CANDELS Team Meeting, Amherst, MA, *Spatially Resolving ISM and AGN with CANDELS/3D-HST/CLEAR/CEERS*
- 2018 **Invited Colloquium** at the University of Michigan, *Mapping the Census of Supermassive Black Holes*
- 2018 **Invited Astrophysics Seminar** at Michigan State University, *Mapping the Census of Supermassive Black Holes*
- 2018 **Contributed Talk** at Astrophysical Frontiers in the Next Decade conference, Portland, OR, *Industrial-Scale Echo Mapping of Black Holes*
- 2018 **Contributed Talk** at the New England Regional Quasar and AGN Meeting, New Haven, CT, *SDSS-RM: Industrial-Scale Light Echo Mapping*
- 2018 **Invited Talk** at the Flatiron Institute Center for Computational Astrophysics, New York City, *Black Hole Fundamentals: Observational Advances in Mass, Spin, and Accretion Rate*
- 2018 **Invited Colloquium** at the University of Florida, *The Birth and Growth of Black Holes: Inferring the Supermassive Black Hole Census*
- 2017 **Invited Colloquium** at the University of Science and Technology of China (USTC), *The Birth and Growth of Black Holes: Mapping the AGN Census*
- 2017 **Invited Astrophysics Seminar** at Yale University, *The Birth and Growth of Black Holes: Mapping the AGN Census*
- 2017 **Contributed Talk** at Elusive AGN in the Next Era conference, Fairfax, VA, *The (Elusive) Fossil Record of Black Hole Seeds*
- 2017 **Invited Colloquium** at Boston University, *The Birth and Growth of Black Holes*
- 2017 **Invited Astrophysics Seminar** at Brown University, *The Birth and Growth of Black Holes*

- 2016 **Invited Colloquium** at University of Massachusetts, *The Birth and Growth of Black Holes*
- 2016 **Invited CIERA Seminar** at Northwestern University, *The Birth and Growth of Black Holes*
- 2016 **Invited Colloquium** at the University of Florida, *The Birth and Growth of Black Holes*
- 2016 **Invited Colloquium** at the San Diego State University, *The Birth and Growth of Black Holes*
- 2016 **Invited Colloquium** at the University of Nevada, Las Vegas, *The Birth and Growth of Black Holes*
- 2016 **Invited Colloquium** at the University of Connecticut, *The Birth and Growth of Black Holes*
- 2016 **Invited Colloquium** at the University of Utah, *The Birth and Growth of Black Holes*
- 2016 **Invited Seminar** at the University of Pittsburgh, *Who's Afraid of the Big Bad Supermassive Black Hole?*
- 2016 **Invited Colloquium** at the University of Pittsburgh, *The Birth and Growth of Black Holes*
- 2016 **Invited Colloquium** at West Virginia University, *The Birth and Growth of Black Holes*
- 2016 **Contributed Talk** at AAS Meeting, Kissimmee, FL, *The Fossil Record of Black Hole Seeds, with Spatially Resolved Spectroscopy*
- 2015 **Contributed Talk** at Demographics and Environment of AGN conference, Chania, Greece, *"Flow Patterns" in the BH - Galaxy Relations*
- 2015 **Contributed Seminar** at Penn State, State College, PA *Spatially Resolved Spectroscopy, and Black Holes in Tiny Galaxies*
- 2015 **Invited Popular-Level Lecture** at PA Science Teachers' Workshop, State College, PA, *Hubble Space Telescope: 25 Years*
- 2015 **Contributed Talk** at CANDELS collaboration meeting, Santa Cruz, CA, *The AGN Census with CANDELS + 3D-HST*
- 2015 **Invited Colloquium** at the University of Wyoming, Laramie, WY, *Who's Afraid of the Big Bad Supermassive Black Hole?*
- 2015 **Contributed Talk** at South by High Redshift conference, Austin, TX, *The Fossil Record of Black Hole Seeds*
- 2015 **Contributed Talk** at Hubble Fellows Symposium, Baltimore, MD, *The Active Galaxy Census: Are Black Holes in Special Galaxies?*
- 2015 **Invited Colloquium** at the University of Rochester, NY, *Who's Afraid of the Big Bad Supermassive Black Hole?*
- 2015 **Contributed Talk** at AAS Meeting, Seattle, WA, *The Emission-Line AGN Census*
- 2014 **Contributed Talk** at SDSS BOSS Collaboration Meeting, Cloudcroft, NM, *SDSS-RM: First Results*
- 2014 **Contributed Seminar** at the University of Kentucky, Lexington, KY, *Who's Afraid of the Big Bad Supermassive Black Hole?*
- 2014 **Contributed Seminar** at Texas A&M, College Station, TX, *What Can the HST/WFC3 Grism Do for You?*
- 2014 **Invited Colloquium** at the University of Texas, Austin, TX, *Who's Afraid of the Big Bad Supermassive Black Hole?*
- 2014 **Invited Colloquium** at Penn State University, State College, PA, *Who's Afraid of the Big Bad Supermassive Black Hole?*
- 2014 **Contributed Talk** at CANDELS collaboration meeting, Baltimore, MD, *AGN Hosts in CANDELS*
- 2014 **Contributed Talk** at The Formation & Growth of Galaxies in the Young Universe conference, Obergurgl, Austria, *The AGN Census at $z \sim 2$: SMBH Seeds in Low-Mass Disks*

- 2014 **Contributed Talk** at Penn State Neighborhood Cosmology Workshop, State College, PA, *How Do Galaxies Fuel their Supermassive Black Holes?*
- 2014 **Contributed Talk** at AAS Meeting, Washington, DC, *The AGN Census at $z \sim 2$ with CANDELS + 3D-HST*
- 2013 **Invited Colloquium** at Royal Observatory, Edinburgh, Scotland, *How Do Galaxies Grow their Supermassive Black Holes?*
- 2013 **Contributed Talk** at 3D-HST Team Meeting, San Juan, Puerto Rico, *Finding AGN with the WFC3 Grism*
- 2013 **Contributed Seminar** at Penn State, State College, PA *How to Win a Postdoc Fellowship*
- 2013 **Contributed Seminar** at Univ. of Texas, Austin, TX, *How do Galaxies Grow their Supermassive Black Holes?*
- 2013 **Invited Colloquium** at Texas AM, College Station, TX, *How do Galaxies Grow their Supermassive Black Holes?*
- 2013 **Contributed Seminar** at Penn State, State College, PA *Chicken or Egg: Galaxy Bulge or Supermassive Black Hole?*
- 2013 **Contributed Talk** at CANDELS Team Meeting, Lexington, KY, *Does Clumpy Inflow Fuel AGN?*
- 2013 **Invited Talk** at Triggering Mechanisms of Active Galactic Nuclei, Leiden, The Netherlands, *Chicken or Egg: Galaxy Bulge or Supermassive Black Hole*
- 2013 **Contributed Seminar** at Univ. of Colorado, Boulder, CO, *Connecting AGN Accretion and Obscuration to Host Galaxy Evolution*
- 2013 **Contributed Seminar** at UCSC, Santa Cruz, CA, *Chicken or Egg: Galaxy Bulge or Supermassive Black Hole?*
- 2013 **Contributed Talk** at AAS Meeting, Long Beach, CA, *Do $z > 1$ Clumpy Galaxies in CANDELS Fuel AGNs?*
- 2012 **Invited Colloquium** at Penn State, State College, PA, *Connecting AGN Accretion and Obscuration to Host Galaxy Evolution*
- 2012 **Contributed Seminar** at Univ. of Maryland, College Park, MD, *Connecting AGN Accretion and Obscuration to Host Galaxy Evolution*
- 2012 **Contributed Seminar** at Yale, New Haven, CA *Connecting AGN Accretion and Obscuration to Host Galaxy Evolution*
- 2012 **Contributed Seminar** at Harvard/CfA, Cambridge, MA, *Connecting AGN Accretion and Obscuration to Host Galaxy Evolution*
- 2012 **Contributed Talk** at CANDELS Team Meeting, Santa Cruz, CA, *CANDELS AGN Hosts with WFC3 Grism & MOSFIRE*
- 2012 **Contributed Talk** at AEGIS Team Meeting, Pittsburgh, PA, *Black Hole Growth and the Role of Host Galaxy with Large Extragalactic Surveys*
- 2012 **Contributed Talk** at COSMOS AGN Workshop, Tokyo, Japan, *Black Hole Growth and the Role of Host Galaxy with COSMOS*
- 2012 **Contributed Talk** at AAS Meeting, Austin, TX, *Emission-Line Diagnostics of Nuclear Activity and Star Formation at $z \sim 2$ with the HST/WFC3 Grism*
- 2011 **Contributed Seminar** at UC Santa Cruz, *The Elusive Hunt for Observable AGN Feedback*
- 2011 **Contributed Seminar** at UC Santa Barbara, *AGN Unification: Obscuration and Accretion Both, and the Role of the Host Galaxy*
- 2011 **Contributed Seminar** at Carnegie, Pasadena, CA, *AGN Unification: Obscuration and Accretion Both, and the Role of the Host Galaxy*
- 2011 **Contributed Talk** at Mergers in an Evolving Universe Conference, Hualien, Taiwan, *Not All AGNs are the Same: What that Means for the AGN-Merger Connection*
- 2011 **Contributed Seminar** at NOAO, Tucson, AZ, *AGN Unification: Obscuration and Accretion Both, and the Role of the Host Galaxy*

- 2011 **Invited Talk** at Future of Astronomy Conference, Chicago, IL, *Not All AGNs are Created Equal: How Galaxies Feed and Obscure their SMBHs*
- 2011 **Invited Talk** at UCSC Galaxy Workshop, *Not All AGNs are Created Equal: How Galaxies Feed and Obscure their SMBHs*
- 2011 **Contributed Talk** at CANDELS Team Meeting, Edinburgh, Scotland, *Emission Line Galaxies at $z \sim 2$ From the HST/WFC3 Grism: A Mix of Star Formation and Nuclear Activity*
- 2011 **Invited Colloquium** at Hawai'i/IfA, *Not All AGNs are Created Equal: How Galaxies Feed and Obscure their SMBHs*
- 2011 **Contributed Talk** at CANDELS Team Meeting, STScI, Baltimore, MD, *Emission Line Galaxies at $z \sim 2$ in the HST/WFC3 Grism*
- 2011 **Poster** at AAS Meeting, Seattle, WA, *Accretion Rate and AGN Unification*
- 2010 **Contributed Seminar** at UC Santa Cruz, *Accretion Rate and AGN Unification*
- 2010 **Contributed Seminar** at Harvard/CfA, *Accretion Rate and AGN Unification*
- 2010 **Contributed Talk** at The IR-X-ray Connection, London, England, *The IR / X-ray Properties of Low Accretion Rate AGNs*
- 2010 **Contributed Talk** at Cosmic Evolution Survey Team Meeting, Honolulu, Hawai'i, *AGN Unification in COSMOS*
- 2010 **Invited Seminar** at IPMU, Tokyo, Japan, *In Search of an AGN Unified Model with COSMOS*
- 2010 **Invited Colloquium** at Ehime University, Matsuyama, Japan, *In Search of an AGN Unified Model with COSMOS*
- 2010 **Contributed Talk** at MMT Symposium, Tucson, AZ, *AGN Reverberation Mapping with MMT/Hectospec*
- 2010 **Dissertation Talk** at AAS Meeting, Washington, DC, *Fueling and Obscuration of AGNs in COSMOS*
- 2009 **Contributed Observer's Seminar** at Harvard/CfA, *Probing the Lower Limits of Nuclear Activity with COSMOS*
- 2009 **Contributed Talk** at Cosmic Evolution Survey Team Meeting, Matsuyama, Japan, *Obscuration and Fueling of AGN in COSMOS*
- 2009 **Contributed Seminar** at NOAO, Tucson, AZ, *Optically Dull AGN: Obscured or Intrinsically Weak?*
- 2008 **Contributed Talk** at Caltech, *Probing the Lower Limits of Nuclear Activity with COSMOS*
- 2008 **Contributed Talk** at The Starburst-AGN Connection, Shanghai, China, *Linking Star Formation and AGN Obscuration with COSMOS*
- 2008 **Extragalactic Seminar** at Hawai'i/IfA, *Probing the Lower Limits of Nuclear Activity with COSMOS*
- 2008 **Invited Popular-Level Talk** at NSF/JSPS Closing Session, Tokyo, Japan, *What I Learned on my NSF/JSPS Summer Fellowship*
- 2008 **Invited Colloquium** at Kyoto University, Kyoto, Japan, *AGN Fueling and Obscuration*
- 2008 **Invited Colloquium** at Ehime University, Matsuyama, Japan, *AGN Fueling and Obscuration*
- 2008 **Contributed Seminar** at NOAO, Tucson, AZ, *Probing the Lower Limits of Nuclear Activity 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*

- 2007 **Invited Popular-Level Talk** at Arizona Astronomy Board, Tucson, AZ, *Quasars and Their Galaxies: Searching for Systems More Like Our Own*
- 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 SDSS DR2*
- 2003 **Poster** at AGN Physics with the Sloan Digital Sky Survey, Princeton, NJ, *Clustering of Identical Quasars in the SDSS First Data Release*