

RYAN C. HICKOX

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Observational astrophysicist. Interests include active galactic nuclei, galaxy evolution, large-scale structure of the Universe, the cosmic X-ray background, X-ray binary pulsars, analysis of data from *Chandra*, *NuSTAR*, *XMM-Newton*, *Hubble*, *Spitzer WISE*, and *Herschel* space telescopes and ground-based spectroscopy.

EDUCATION

Harvard University – Ph.D. in Astronomy, defended October 2007 (conferred June 2008)

Yale University – B.S. in Physics *magna cum laude*, May 2000

APPOINTMENTS

Department of Physics and Astronomy, Dartmouth College

Assistant Professor, 2011–present.

Department of Physics, Durham University

STFC Postdoctoral Fellow, 2009–2011.

Smithsonian Astrophysical Observatory

SAO Postdoctoral Fellow, 2007–2009. Supervisor: Christine Jones.

Department of Astronomy, Harvard University

Ph.D. Candidate, 2002–2007, NASA GSRP Fellow and Harvard Merit Fellow.

Thesis: “Active Galactic Nuclei and the Unresolved Cosmic X-ray Background”

Advisors: Dr. Christine Jones & Prof. Ramesh Narayan.

Physics Department, Yale University

Senior thesis research, 1999-2000. Experimental particle physics (neutral B meson oscillation) with data from the CDF detector at Fermilab. Advisor: Prof. Colin Gay.

FELLOWSHIPS, PRIZES, AND AWARDS

- National Science Foundation CAREER Award (2016–21)
- Alfred P. Sloan Research Fellowship (2014–16)
- Dartmouth Class of 1962 Faculty Fellowship (2014–15) • STFC Postdoctoral Fellowship (2009–11)
- Einstein Fellowship (2009, declined) • Marshall Sherfield Fellowship (2009, declined)
- SAO Postdoctoral Fellowship (2007–2009) • NASA GSRP Fellowship (2005–2007)
- Harvard Merit Fellowship (2006–2007) • Harvard Distinction in Teaching (2004, 2005, 2006)
- Outstanding Teaching Assistant Award, Harvard Dept. of Astronomy (2004–2005)
- Schultz Prize for experimental physics, Yale University (May 2000)

TEACHING AND ADVISING

Dartmouth College (2011–present)

Courses

- *Astronomy 2/3*, “Exploring the Universe”, Fall 2012, Fall 2013, Fall 2015, Fall 2016
- *Astronomy 15*, “Stars & the Milky Way”, Spring 2012, Spring 2013, Spring 2014, Spring 2016
- *Astronomy 19*, “Habitable Planets”, Spring 2017
- *Astronomy 25*, “Galaxies and Cosmology”, Winter 2014, Spring 2015
- *Astronomy 118*, “Observational Cosmology”, Winter 2012

Current research group

- Postdoctoral associates: M. DiPompeo (2015–present); L. Lanz (2016–present)
- PhD students: M. Jones (2012–present; NASA Jenkins Fellow 2015–18; GK-12 Fellow 2013-14), C. Carroll (2013–present; GK-12 Fellow 2014-15), M. Brumback (2014–present), W. Yan (2015–present)
- Undergraduates: P. Gardner ’17, M. Lane ’17, R. Hviding ’18, A. Colon ’18, E. Golitzin ’18, F. Rentzeperis ’20.

Previous members

- Postdoctoral associates: K. Hainline (2012–15; now at U. of Arizona); F. Civano (2012–13; now at Harvard-Smithsonian Center for Astrophysics)
- PhD students: S. Cohen (starting 2013; Neukom Fellow, defended 2016; now at St. Paul’s School); C.-T. Chen (2011–2015; Neukom Fellow, defended 2015; now at Penn State) and C. Black (2012–13; now working with Prof. R. Fesen)
- Undergraduates: M. Oulmakki (summer 2012), S. Griffis (summer 2012), E. Soto (summer 2013), T. Whalen (2012–14), A. Zervos (2013–14), N. Golini (2015–16).

Residential

House Professor for West House (2015–2019; <http://sites.dartmouth.edu/west-house>)

Durham University (2009–2011)

Supervisor for four students (3rd year and 4th year/Master’s). Leader of 2nd year undergraduate tutorials in the Department of Physics. Tutor (advisor) for ten first-year undergraduates, associated with St. Chad’s College.

Harvard-Smithsonian CfA (2002–2009)

Teaching Fellow for four Harvard undergraduate courses. Supervised six undergraduates at SAO, including serving as research mentor for four students in the SAO Summer Intern program, leading to two published papers (Nielsen *et al.* 2004; Hung *et al.* 2010), four AAS posters, and one *Chandra* symposium poster. Served as a Resident Tutor in Physics at Dunster House (undergraduate residential house community of approximately 400 students) from 2003–2007.

Oundle School (2000–2002)

The inaugural Peter Ling Fellow at Oundle School in Northamptonshire, England, the largest co-ed boarding school in the UK. On two-year teaching fellowship for young Americans, taught physics, coached sports, and served as Assistant Housemaster in a boarding house.

RESEARCH GRANTS

- *Chandra X-ray Observatory* Data Analysis grant: “The *Chandra* Deep Wide-Field Survey: Completing the Next Generation of *Chandra* Extragalactic Surveys” – total Dartmouth award \$295K (*approved as of Dec. 2016, but not yet awarded.*)
- *XMM-Newton* Cycle 15 Data Analysis grant (2016–17), “Probing the warped inner accretion flow in SMC X-1 with *XMM* and *NuSTAR*” – total Dartmouth award \$51K (*approved but not yet awarded.*)
- NSF IUSE grant (2016–19): “Improving Communication Abilities of Undergraduate Science Students Through Public Outreach and Education” (subaward from Carthage College, PI: D. Arion) – total Dartmouth award \$73K.
- NASA Astrophysics Data Analysis Program grant (2016–2018): “Unveiling hidden black holes in the cosmic web: Dark matter halos of WISE quasars from Planck CMB lensing” – total award \$335K, including subaward to University of Wyoming.
- NSF CAREER award (2016–2021): “CAREER: The Hidden Monsters: Cosmic Evolution of Obscured Supermassive Black Holes” – total award \$672K.
- NASA (subaward from Caltech, 2015–2018): “NuSTAR Extragalactic Survey and AGN Science” – total Dartmouth award \$261K.
- *NuSTAR* Cycle 1 Data Analysis grant (2015–16), “Superorbital variation of LMC X-4: Exploring the inner accretion flow with *NuSTAR* and *Suzaku*” – total Dartmouth award \$40K
- NSF Astronomy and Astrophysics research grant (2015–2017): “Collaborative Research: Cross-correlation of WISE quasars with the Planck CMB lensing maps: A new probe of black holes and large-scale structure” (*Collaborative with Univ. of Wyoming*) – total Dartmouth award \$166K.
- NASA Jenkins Graduate Fellowship (2015–2018): “Modeling the evolution of galaxies and black holes in X-rays with *NuSTAR* and *Chandra*” (*PI Hickox, graduate student M. Jones*) – total Dartmouth award \$165K.
- Alfred P. Sloan Fellowship (2014–2016): “The search for hidden supermassive black holes” – total award \$50K.
- NSF Astronomy and Astrophysics research grant (2012–2015): “Collaborative Research: The Hidden Side of Rapidly Growing Black Holes: Host Masses and Evolution of Obscured Quasars with SDSS and WISE” (*Collaborative with Univ. of Wyoming*) – total Dartmouth award \$248K.
- NASA Astrophysics Data Analysis Program grant (2012–2015): “The hidden side of rapidly growing black holes: Host masses and evolution of obscured quasars with *WISE*, *Chandra*, *XMM*, *Spitzer* and *GALEX*” (*Institutional PI, collaborative with Univ. of Wyoming*) – total Dartmouth award \$158K.

OBSERVING AND ARCHIVE PROGRAMS

PI or primary author of successful proposals for the following programs:

- *Chandra* Cycle 18 observations; PI: R. Hickox, “The *Chandra* Deep Wide-Field Survey: Completing the next generation of extragalactic *Chandra* surveys”
- *XMM-Newton* Cycle 15 observations (Priority B, Joint with *NuSTAR*; PI: R. Hickox), “Probing the warped inner accretion flow in SMC X-1 with *XMM* and *NuSTAR*”
- *NuSTAR* Cycle 1 observations (Priority A, Joint with *Suzaku*; PI: R. Hickox), “Superorbital variation of LMC X-4: Exploring the inner accretion flow with *NuSTAR* and *Suzaku*”
- *NuSTAR* Cycle 1 observations (Priority C; PI: R. Hickox), “The search for extreme absorption in “typical” WISE-selected obscured quasars”

- IRAM Plateau de Bure Interferometer observations, summer/fall 2012 (PIs: R. Hickox and J. Geach), “The highest density starbursts in the Universe”
- *XMM-Newton* Cycle 10 proposal (PI: R. Hickox), “A candidate “intermediate-mass” black hole in the dwarf starburst galaxy He 2-10”
- *Chandra* Cycle 9 DDT archive grant (PI: R. Hickox), “Ultra-deep X-ray spectra in the CDF-S: a new class of hard, unabsorbed X-ray AGN?”
- *Chandra* Cycle 9 archive grant (PI: C. Jones), “Harnessing the full power of *Chandra* surveys”
- *Suzaku* Cycle 3 observations (PI: R. Hickox), “Supermassive Black Hole Accretion in Obscured AGN and XBONGs”
- *Suzaku* Cycle 2 observations (PI: R. Hickox), “Superorbital variation in LMC X-4: Exploring the accretion flow”
- *XMM-Newton* Cycle 7 observations (PI: C. Jones), “Exploring Supermassive Black Hole Accretion in $z > 3$ AGN, Obscured AGN and XBONGs”
- *Spitzer* Cycle 5 observations (PI: C. Jones), “Evolution of AGN and galaxies from $z \sim 1$: IRAC observations of DEEP2”
- SALT Fabry-Perot spectroscopy of nearby AGN (2015–16)
- SALT optical spectroscopy (kinematics and redshifts of obscured quasars, 2011–2016)
- MDM/OSMOS optical spectroscopic observations (caustic masses of C4 SDSS clusters, morphology of AGN narrow-line regions, 2012–2016)
- MMT Hectospec observations (seven survey runs covering the Boötes and XDEEP2 fields, 2008–2011; PIs: R. Hickox and S. Murray)

Co-I on the following programs:

- SOFIA Cycle 5 observations (PI C. Tremonti), “Probing Dust-obscured Star Formation and AGN Activity in Massive Ultra-compact Galaxies”
- *HST* Cycle 23 observations (PI C. Tremonti), “Direct Imaging of Galactic Winds in Extreme Starburst Galaxies”
- *HST* Cycle 22 observations (PI A. Diamond-Stanic), “How Compact is the Stellar Mass in Eddington-Limited Starbursts?”
- *Chandra* Cycle 15 GO observations (PI A. Reines), “AGN-triggered star formation in the dwarf galaxy He 2-10?”
- *Chandra* Cycle 15 archive grant (PI J. Greene), “The demographics of massive black holes in dwarf galaxies”
- *Chandra* Cycle 14 archive grant (PI A. Goulding), “Harnessing the full power of the widest Chandra field: X-ray stacking of AGN & galaxies in the Sloan Digital Sky Survey”
- *Suzaku* Cycle 7 GO observations (PI: D. Stern), “WISE J1819+4532: an Obscured, Hyperluminous ULIRG/AGN at $z \sim 2$ ”
- *Herschel* Cycle 2 GO observations (PI: N. Zakamska), “Feedback from luminous obscured quasars”
- *Chandra* Cycle 12 GTO observations (PI: S. Murray), “Detailed X-ray spectra of IR-selected AGN in the Boötes field”
- *Chandra* Cycle 11 observations (joint with *HST*; PI: C. Tremonti), “After the fall: Fading AGN in post-starburst galaxies”
- *Chandra* Cycle 10 observations (PI: A. Stanford), “The Role of AGN in Massive Galaxy Formation”
- *Spitzer* Cycle 5 observations (PI: W. Forman), “Testing the Unified Model with a Complete Sample of Hard X-ray Selected AGN”
- *Spitzer* Cycle 5 observations (PI: M. Werner), “Infrared Search for Hidden AGN”

PROFESSIONAL ACTIVITIES

- Inaugural House Professor, West House, Dartmouth College, 2015–2019
- Referee for *Nature*, *The Astrophysical Journal*, *Astronomy & Astrophysics*, *Monthly Notices of the Royal Astronomical Society*, *Proceedings of the Astronomical Society of Japan*, *Advances in Astronomy*, *New Astronomy*
- Member of the Science and Technology Development Team for the *Lynx* NASA X-ray Mission Concept (2016–2019) (<http://www.wastro.msfc.nasa.gov/lynx/>)
- Nominating Committee of the American Astronomical Society (2017–2020)
- Organizer for international workshop (~100 participants) “The Hidden Monsters: Obscured AGN and Connections to Galaxy Evolution in the Era of *NuSTAR* and *WISE*”, Dartmouth, 8–12 August 2016 (<http://www.dartmouth.edu/~hiddenmonsters>)
- Organizer of 2015 New England Regional Quasar and AGN Meeting (NERQUAM), Dartmouth College, 4 June 2015 (<http://www.dartmouth.edu/~hickox/NERQUAM>)
- Co-organizer and member of Science Organizing Committee for international workshop (~100 participants) “AGN vs. Star Formation: The fate of gas in galaxies”, Durham, UK, 28 July–1 Aug. 2014 (<http://astro.dur.ac.uk/AGNvsSF>)
- Organizer for international workshop (~60 participants) “Black Hole Feedback 2012”, Dartmouth, 30 July–3 Aug. 2012 (<http://www.dartmouth.edu/~bhfeedback2012>)
- Chair of Local Organizing Committee for large international conference (~360 participants) on “Galaxy Formation”, Durham, UK, 18–22 July 2011 (<http://astro.dur.ac.uk/Gal2011>)
- Primary organizer (with D. Alexander) of major international workshop “What Drives the Growth of Black Holes?”, Durham, UK, 26–29 July 2010 (<http://astro.dur.ac.uk/growthofblackholes>)
- Member of the Moving Dartmouth Forward Presidential Steering Committee, 2014–15
- Member of Dartmouth departmental and College committees: Department Graduate Committee (2012–2015), Undergrad Curriculum Committee (2014–16), and Strategic Planning Committee (2014); College Committee on Student Life (2014) and Committee on Off-Campus Activities (2016)
- Member of the Science Team for the *NuSTAR* X-ray observatory (<http://www.nustar.caltech.edu>), launched June 2012. Member of Extragalactic Surveys and Obscured AGN working groups.
- Member of team for proposed *Wide-Field X-Ray Telescope* mission (<http://wfxt.pha.jhu.edu>), leading predictions for analyses of clustering and host galaxies of AGN.
- Contributed to the science cases for proposed *NHXM*, *Generation-X*, and *SMART-X* missions.
- Member of NOAO Extragalactic TAC (2011–2013)
- Panelist for Guest Observer review for multiple NASA missions
- Panelist for National Science Foundation proposal reviews
- External grant and proposal reviewer for the National Science Foundation, German Research Foundation, European Research Commission, Netherlands Organisation for Scientific Research, South Africa National Research Foundation, and the Israel Science Foundation
- Developed STACKFAST code for rapid, flexible X-ray stacking analyses.
- Member of High Energy Astrophysics Division, American Astronomical Society, and the International Astronomical Union

OUTREACH AND PRESS

- Organizer of order-of-magnitude estimation workshops as part of NSF program:
<http://sites.dartmouth.edu/estimation>.
- Organizer of AstroConnect program linking schools and scientists over Skype:
<http://sites.dartmouth.edu/astroconnect>.
- Contributed to NSF-funded teacher workshops at the University of Wyoming:
<http://www.uwpd.org/LASSI/>.
- Contributed Chapter on "What is Astronomy?" to *What Are the Arts and Sciences?*, Daniel Rockmore, Ed., University Press of New England, 2017
- Featured in more than a dozen articles in Dartmouth publications including Dartmouth News, The Dartmouth, and The Dartmouth Review.
- Multiple press releases on compact star-forming galaxy research, and appearance on NHPR and Australian Broadcasting Company podcast, December 2014 <http://now.dartmouth.edu/2015/01/an-ancient-galaxy-tells-dartmouth-astronomers-new-tales/>.
- Featured in cover article on “Supergalaxies”, All About Space magazine issue 19, December 2013
- Dartmouth press release on SALT quasar research, July 2013:
http://www.eurekalert.org/pub_releases/2013-07/dc-snl072413.php
- ESO press release on submillimeter galaxies: <http://www.eso.org/public/news/eso1206/>.
Featured by BBC, Space.com, Astronomy.com, Astronomy Now, and others worldwide.
- Presentation and observing session for Camp Dartmouth attendees, 29 July 2016
- Multiple presentations on astronomy for Family Weekends and Dartmouth Bound
- Took part in Dartmouth Science Pub on “Black Holes: Monsters of the Universe” with Prof. Jenny Greene (Princeton) at Murphy’s, Hanover, 17 January 2013
- Numerous presentations at astronomy clubs and schools, including 17 public talks in 2010–12.
- Expert-in-Residence at African Leadership Academy, Johannesburg, South Africa, February 2009.
Week-long visit to pan-African secondary school for seminars on astronomy and astrophysics.
- Appeared as featured astronomer discussing quasars and AGN on the “Pulsars & Quasars” episode of the TV show *The Universe* on the History Channel, aired October 2009.
- *Chandra* press release for obscured AGN research, 2007:
http://chandra.harvard.edu/press/07_releases/press_031207.html

PUBLICATIONS

JOURNAL ARTICLES

108 refereed journal articles published or under review. Papers are organized into three groups based on my level of contribution to the research presented in the paper. Most publications here are in three journals: *The Astrophysical Journal*, *Monthly Notices of the Royal Astronomical Society*, and *Astronomy & Astrophysics*. These are the world's three main highly-regarded journals that are dedicated to new results in astrophysics.

Papers with a primary intellectual or observational contribution (papers led by myself or my advisees/postdocs marked with ★)

1. ★ “Do You See What I See? Exploring the Consequences of Luminosity Limits in Black Hole–Galaxy Evolution Studies”, Mackenzie L. Jones, **Ryan C. Hickox**, Simon J. Mutch, Darren J. Croton, Andrew F. Ptak, Michael A. DiPompeo, 2017, *The Astrophysical Journal* submitted
2. ★ “Composite spectral energy distributions and infrared–optical colors of type 1 and type 2 quasars”, **Ryan C. Hickox**, Adam D. Myers, Jenny E. Greene, Kevin N. Hainline, Nadia L. Zakamska, Michael A. DiPompeo, 2017, *The Astrophysical Journal* submitted
3. “Galaxy-scale bars in late-type Sloan Digital Sky Survey Galaxies Do Not Influence the Average Accretion Rates of Supermassive Black Holes”, A. D. Goulding, E. Matthaey, J. E. Greene, **R. C. Hickox**, D. M. Alexander, W. R. Forman, C. Jones, B. D. Lehmer, S. Griffis, S. Kanev & M. Oulmakki, 2017, *The Astrophysical Journal* submitted
4. ★ “The X-ray and Mid-Infrared Luminosities in Luminous Type 1 Quasars”, Chien-Ting J. Chen, **Ryan C. Hickox**, *et al.*, 2017, *The Astrophysical Journal* in press (arXiv:1701.05207)
5. ★ “A unifying evolutionary framework for infrared-selected obscured and unobscured quasar host haloes”, M. A. DiPompeo, **R. C. Hickox**, A. D. Myers, J. E. Geach, 2017, *Monthly Notices of the Royal Astronomical Society*, 464, 3526 (arXiv:1610.03493)
6. ★ “Star Formation and Supercluster Environment of 107 Nearby Galaxy Clusters”, Seth A. Cohen, **Ryan C. Hickox**, Gary A. Wegner, Maret Einasto, Jaan Vennik, 2017, *The Astrophysical Journal*, 835, 56 (arXiv:1612.04813)
7. “Multi-epoch Spectroscopy of Dwarf Galaxies with AGN Signatures: Identifying Persistent Broad $H\alpha$ Emission”, Vivienne F. Baldassare, Amy E. Reines, Elena Gallo, Jenny E. Greene, Or Graur, Marla Geha, Kevin Hainline, Christopher Carroll, **Ryan C. Hickox**, 2016, *The Astrophysical Journal*, 829, 57 (arXiv:1605.05731)
8. ★ “The Impact of the Dusty Torus on Obscured Quasar Halo Mass Measurements”, M. A. DiPompeo, J. C. Runnoe, **R. C. Hickox**, A. D. Myers, J. E. Geach, 2016, *Monthly Notices of the Royal Astronomical Society*, 460, 175 (arXiv:1604.06811)
9. ★ “The Intrinsic Eddington Ratio Distribution of Active Galactic Nuclei in Young Galaxies From the Sloan Digital Sky Survey”, Mackenzie L. Jones, **Ryan C. Hickox**, Christine S. Black, Kevin N. Hainline, Michael A. DiPompeo, Andy D. Goulding, 2016, *The Astrophysical Journal*, 826, 12 (arXiv:1605.01739)
10. ★ “A tale of two narrow-line regions: Kinematics, ionization structure, and spectral energy distributions for a local pair of merging obscured active galaxies”, Kevin N. Hainline, **Ryan C. Hickox**, Chien-Ting Chen, Christopher M. Carroll, Mackenzie L. Jones, Alexandros S. Zervos, Andrew D. Goulding, 2016, *The Astrophysical Journal*, 823, 42 (arXiv:1603.06589)

11. ★ “Updated measurements of the dark matter halo masses of obscured quasars with improved WISE and Planck data”, M. A. DiPompeo, **R. C. Hickox**, A. D. Myers, 2016, *Monthly Notices of the Royal Astronomical Society*, 456, 924 (arxiv:1511.04469)
12. ★ “The *NuSTAR* Extragalactic Surveys: Overview and Catalog from the COSMOS Field”, Francesca M. Civano, **Ryan C. Hickox**, *et al.*, 2015, *The Astrophysical Journal*, 808, 185 (arXiv:1511.04185)
13. “The *NuSTAR* Extragalactic Surveys: Initial Results and Catalog from the Extended Chandra Deep Field South”, James R. Mullaney *et al.*, 2015, *The Astrophysical Journal*, 808, 184 (arXiv:1511.04186)
14. ★ “Star formation and relaxation in 379 nearby galaxy clusters”, Seth A. Cohen, **Ryan C. Hickox**, Gary A. Wegner, 2015, *The Astrophysical Journal*, 806, 85 (arXiv:1504.05191)
15. ★ “Variable Hard X-ray Emission from the Candidate Accreting Black Hole in Dwarf Galaxy Henize 2–10”, Thomas J. Whalen, **Ryan C. Hickox**, Amy E. Reines, Jenny E. Greene, Gregory R. Sivakoff, Kelsey E. Johnson, David M. Alexander, Andy D. Goulding, 2015, *The Astrophysical Journal*, 806, 37 (arXiv:1504.03331)
16. ★ “A connection between obscuration and star formation in luminous quasars”, Chien-Ting J. Chen, **Ryan C. Hickox**, Stacey Alberts, Chris M. Harrison, David M. Alexander, Roberto Assef, Michael J. I. Brown, Agnese Del Moro, William R. Forman, Andrew D. Goulding, Kevin N. Hainline, Christine Jones, Christopher S. Kochanek, Stephen S. Murray, Alexandra Pope, Emmanouel Rovilos, Daniel Stern, 2015, *The Astrophysical Journal*, 802, 50 (arXiv:1501.04959)
17. “Weighing obscured and unobscured quasar hosts with the CMB”, M. A. DiPompeo, A. D. Myers, **R. C. Hickox**, J. E. Geach, G. Holder, K. N. Hainline, S. W. Hall, 2015, *Monthly Notices of the Royal Astronomical Society*, 446, 3492 (arXiv:1411.0527)
18. “Stellar feedback as the origin of an extended molecular outflow in a starburst galaxy”, J. E. Geach, **R. C. Hickox**, A. M. Diamond-Stanic, M. Krips, G. H. Rudnick, C. A. Tremonti, P. H. Sell, A. L. Coil, J. Moustakas, 2014, *Nature*, 516, 68 (arXiv:1412.1091)
19. ★ “A spectroscopic survey of *WISE*-selected obscured quasars with the Southern African Large Telescope”, Kevin N. Hainline, **Ryan C. Hickox**, Christopher M. Carroll, Adam D. Myers, Michael A. DiPompeo, Laura Trouille, 2014, *The Astrophysical Journal*, 795, 124 (arXiv:1409.4773)
20. “The Angular Clustering of Infrared-Selected Obscured and Unobscured Quasars”, Michael A. DiPompeo, Adam D. Myers, **Ryan C. Hickox**, James E. Geach, Kevin N. Hainline, 2014, *Monthly Notices of the Royal Astronomical Society*, 442, 3443 (arXiv:1406.0778)
21. “Obscuration by gas and dust in luminous quasars”, Shawn Usman, Stephen S. Murray, **Ryan C. Hickox**, Mark Brodwin, 2014, *The Astrophysical Journal Letters*, 788, 3 (arXiv:1406.6099)
22. ★ “Gemini Long-slit Observations of Luminous Obscured Quasars: Further Evidence for an Upper Limit on the Size of the Narrow-Line Region”, Kevin N. Hainline, **Ryan C. Hickox**, Jenny E. Greene, Adam Myers, Nadia Zakamska, Guilin Liu, and Xin Liu, 2014, *The Astrophysical Journal*, 787, 65 (arXiv:1404.1921)
23. ★ “Star formation and substructure in galaxy clusters”, S. A. Cohen, **R. C. Hickox**, G. A. Wegner, M. Einasto, J. Vennik, 2014, *The Astrophysical Journal*, 783, 136 (arXiv:1401.6171)
24. “Tracing the evolution of active galactic nuclei host galaxies over the last 9 gyrs of cosmic time”, A. D. Goulding, W. R. Forman, **R. C. Hickox**, C. Jones, S. S. Murray, A. Paggi, M. L. N. Ashby, A. L. Coil, M. C. Cooper, J.-S. Huang, R. Kraft, J. A. Newman and S. P. Willner, 2014, *The Astrophysical Journal*, 783, 40 (arXiv:1310.8298)

25. ★ “Black hole variability and the star formation-AGN connection: Do all star-forming galaxies host an AGN?”, **R. C. Hickox**, J. R. Mullaney, D. M. Alexander, C.-T. J. Chen, K. N. Hainline, F. M. Civano, A. D. Goulding, 2014, *The Astrophysical Journal*, 782, 9 (arXiv:1306.3218)
26. “A direct measurement of the linear bias of mid-infrared-selected quasars at $z \sim 1$ using cosmic microwave background lensing”, Geach, J. E., **Hickox, R. C. et al.**, 2013, *The Astrophysical Journal Letters*, 776, 41 (arXiv:1307.1706)
27. ★ “SALT Long-slit Spectroscopy of Luminous Obscured Quasars: An Upper Limit on the Size of the Narrow-Line Region?”, Hainline, K. N., **Hickox, R. C.**, Greene, J., Zakamska, N., Myers, A. D., 2013, *The Astrophysical Journal*, 774, 145 (arXiv:1307.5852)
28. ★ “A correlation between star formation rate and average black hole accretion in star-forming galaxies”, Chien-Ting J. Chen, **Ryan C. Hickox**, Mark Brodwin, Christine Jones, Stephen S. Murray, Stacey Alberts, David M. Alexander, Roberto J. Assef, Michael J. I. Brown, Arjun Dey, William R. Forman, Varoujan Gorjian, Andrew D. Goulding, Emeric Le Floc’h, Buell T. Jannuzi, James R. Mullaney, & Alexandra Pope, 2013, *The Astrophysical Journal*, 773, 3 (arXiv:1306.1227)
29. “A redline starburst: CO(2–1) observations of an Eddington-limited galaxy reveal star formation at its most extreme”, J. E. Geach, **R. C. Hickox**, A. M. Diamond-Stanic, M. Krips, J. Moustakas, C. A. Tremonti, A. L. Coil, P. H. Sell, G. H. Rudnick, 2013, *The Astrophysical Journal Letters*, 767, 17 (arXiv:1302.6236)
30. “High-velocity outflows without AGN feedback: Eddington-limited star formation in compact massive galaxies”, A.M. Diamond-Stanic, J. Moustakas, A. Coil, **R.C. Hickox**, G. Rudnick, P. Sell, C. Tremonti, 2012, *The Astrophysical Journal Letters* 755, 26 (arXiv:1205.2368)
31. “The Chandra X-ray Point Source Catalog in the DEEP2 Galaxy Redshift Survey Fields”, A.D. Goulding, W.R. Forman, **R.C. Hickox**, C. Jones, R. Kraft, S.S. Murray, A. Vikhlinin, A.L. Coil, M.C. Cooper, M. Davis, J.A. Newman, 2012, *The Astrophysical Journal*, 755, 6 (arxiv:1206.6884)
32. “Deep Silicate Absorption Features in Compton-thick AGN Predominantly Arise Due to Dust in the Host Galaxy”, A.D. Goulding, D.M. Alexander, F.E. Bauer, W.R. Forman, **R.C. Hickox**, C. Jones, J.R. Mullaney, M. Trichas, 2012, *The Astrophysical Journal*, 755, 5 (arXiv:1205.1800)
33. “The XMM Cluster Survey: The interplay between the brightest cluster galaxy and the intra-cluster medium via AGN feedback”, John P. Stott, **Ryan C. Hickox**, Alastair C. Edge, Chris A. Collins, Matt Hilton, Craig D. Harrison, A. Kathy Romer, Scott T. Kay, Christopher J. Miller, Martin Sahlén, Ed J. Lloyd-Davies, Nicola Mehrrens, Ben Hoyle, Andrew R. Liddle, Pedro T. P. Viana, Ian G. McCarthy, Joop Schaye, C. M. Booth, 2012, *Monthly Notices of the Royal Astronomical Society*, 422, 2213 (arXiv:1202.3787)
34. ★ “The LABOCA Survey of the Extended *Chandra* Deep Field South: Clustering of submillimetre galaxies”, **Ryan C. Hickox**, J. L. Wardlow, Ian Smail, A. D. Myers, D. M. Alexander, A. M. Swinbank, A. L. R. Danielson, J. P. Stott, S. C. Chapman, K. E. K. Coppin, J. S. Dunlop, E. Gawiser, D. Lutz, P. van der Werf, A. Weiß, 2012, *Monthly Notices of the Royal Astronomical Society*, 421, 284 (arXiv:1112.0321)
35. “Ionized reflection spectra from accretion disks illuminated by X-ray pulsars”, D. R. Ballantyne, J. D. Purvis, R. G. Strausbaugh, and **R. C. Hickox**, 2012, *The Astrophysical Journal Letters*, 747, 35 (arXiv:arXiv:1202.2311)
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1. “Obscured Active Galactic Nuclei”, **Ryan C. Hickox** and David M. Alexander, to appear in *Annual Reviews of Astronomy and Astrophysics* in 2017
2. “What is Astronomy?”, **Ryan C. Hickox**, to appear as Chapter 4 of *What Are the Arts and Sciences?*, D. Rockmore, Ed., University Press of New England, 2017
3. “Host galaxies and large-scale structures of active galactic nuclei”, **Ryan C. Hickox**, Stephanie M. LaMassa, John D. Silverman, Alexander Kolodzig, *Astronomy in Focus*, as presented at the IAU XXIX General Assembly, 2015. Proceedings of the IAU, Volume 29B, 2016, pp. 113–123 (arXiv:1612.04827)
4. “What Drives the Growth of Black Holes?”, Alexander, D. M. & **Hickox, R. C.**, 2012, *New Astronomy Reviews*, 46, 93 (arXiv:1112.1949)
5. “Supermassive Black Holes and the Growth of Galaxies”, **Hickox, R. C.**, two-part review for amateur astronomy journal *The Astronomer*, March–April 2011
6. “Black holes through cosmic time: Exploring the distant X-ray Universe with extragalactic *Chandra* surveys”, **Hickox, R. C.**, *Chandra* Newsletter cover article, Winter 2009 (arXiv:0904:3543)
7. “The growth and evolution of super massive black holes”, Murray, S. S. *et al.* 2010, Astro2010 Decadal Survey White Paper (arXiv:0903.5272)

SUMMARY OF KEY FIRST-AUTHOR PUBLICATIONS

- Hickox et al. (2014) “*Black hole variability and the star formation-AGN connection: Do all star-forming galaxies host an AGN?*” – Explored the connection between star formation and black hole growth in galaxies. Demonstrated that assuming short-timescale AGN variability, observations are consistent with *all* star-forming galaxies hosting growing black holes with accretion rates that closely follow the star formation rate, indicating long-term black hole-galaxy co-evolution. [124+ citations as determined by the NASA Astrophysics Data System]
- Hickox et al. (2012) “*The LABOCA Survey of the Extended Chandra Deep Field South: Clustering of submillimetre galaxies*” – Performed the most precise measurement to date of the spatial clustering of submillimeter galaxies (SMGs). Demonstrated that SMGs at $z \sim 2$ have clustering consistent with quasars, and that their descendants will be massive ($\sim 2\text{--}3L^*$) ellipticals. [107+ citations]
- Hickox et al. (2009) “*Host galaxies, clustering, Eddington ratios, and evolution of radio, X-ray, and infrared-selected AGNs*” – Measured host galaxy properties and dark matter halo masses for different classes of AGN at $z \sim 0.5$ from the Boötes survey. Showed that AGNs selected in different wavebands represent separate populations with different Eddington rate distributions, residing in different host galaxies and large-scale environments. [253+ citations]
- Hickox & Markevitch (2006) “*Absolute measurement of the unresolved cosmic X-ray background in the 0.5–8 keV band with Chandra*” – Presented the absolute measurement of the unresolved cosmic X-ray background in the *Chandra* Deep Fields, representing the lowest surface-brightness cosmic X-ray signal ever measured. The results have been used for a variety of applications including constraints on the high redshift growth of supermassive black holes and measurements of the warm-hot intergalactic medium. [212+ citations]

PRESENTATIONS

Presentations include 56 invited talks and colloquia, 34 contributed talks at conferences and workshops, 17 seminars and lunch talks, and 33 conference posters.

Invited talks and colloquia

1. “The Hidden Monsters: New Windows on the Cosmic Evolution of Supermassive Black Holes”, Physics & Astronomy Colloquium, Dartmouth College, 10 March 2017
2. “The Hidden Monsters: New Windows on the Cosmic Evolution of Supermassive Black Holes”, Astronomy Colloquium, Pennsylvania State University, 1 March 2017
3. “The Hidden Monsters: New Windows on the Cosmic Evolution of Supermassive Black Holes”, Astrophysics Seminar, McGill University, Montreal, QC, 17 January 2017
4. “The Hidden Monsters: New Windows on the Cosmic Evolution of Supermassive Black Holes”, Astronomy Colloquium, Yale University, New Haven, CT, 8 December 2016
5. “The X-ray Surveyor Mission Concept”, *NuSTAR* Science Meeting, Pasadena, CA, 15–17 November 2016
6. “The Synthesis of the Cosmic X-ray Background with *NuSTAR*”, *NuSTAR* Science Meeting, Pasadena, CA, 15–17 November 2016
7. “Hidden Monsters: The Cosmic Evolution of Supermassive Black Holes”, Astrophysics Colloquium, Kavli Institute for Astrophysics and Space Research, MIT, Cambridge, MA, 8 November 2016
8. “Black holes in the cosmic web: The big picture of AGN and large-scale structure”, Hot Spots in the XMM Sky: Cosmology from X-ray to Radio, Mykonos, Greece, 15–18 June 2016
9. “The Hidden Monsters: Obscured AGN in the Era of *NuSTAR* and *WISE*”, Joint Princeton/Institute for Advanced Study Astrophysics Colloquium, Princeton, NJ, 22 March 2016
10. “The Hidden Monsters: Obscured AGN in the Era of *NuSTAR* and *WISE*”, Berkeley Center for Cosmological Physics Seminar, Berkeley, CA, 8 March 2016
11. “Supermassive Black Holes and the Growth of Galaxies”, Quinsigamond Community College, Worcester, MA, 10 February 2016
12. “Uncovering the Black Hole–Galaxy Connection”, Physics Colloquium, University of Vermont, 20 January 2016
13. “The Hidden Monsters: Obscured AGN in the Era of *Chandra*, *NuSTAR*, and *WISE*”, Steve Murray Lecture, High Energy Astrophysics Seminar, Harvard-Smithsonian Center for Astrophysics, 9 December 2015
14. “A new framework for understanding the AGN-star formation connection”, SEAL Talk, NASA Goodard Space Flight Center, 3 December 2015
15. “Uncovering the hidden growth of supermassive black holes”, Astrophysics Colloquium, Boston University, 30 November 2015
16. “Large-Scale Clustering and Host Galaxies of AGN”, Invited talk, Focus Meeting 6: “X-ray surveys of the hot and energetic cosmos”, XXIX IAU General Assembly, Honolulu, HI, 5–6 August 2015
17. “The SF-AGN connection: Do all star-forming galaxies host an AGN?”, Colloquium, Space Telescope Science Institute, Baltimore, MD, 4 December 2014

18. “The monsters within: The cosmic evolution of black holes, galaxies, and dark matter halos”, Astronomy & Physics Colloquium, St. Mary’s University, Halifax, CA, 10 October 2014
19. “The monsters within: The cosmic evolution of black holes, galaxies, and dark matter halos”, Physics & Astronomy Colloquium, Tufts University, 3 October 2014
20. “The SF-AGN connection: Does AGN activity follow or prevent star formation?”, Review talk, AGN vs. Star Formation: The Fate of the Gas in Galaxies, Durham, UK, 28 July–3 August 2014
21. Workshop Summary, Clustering Measurements of Active Galactic Nuclei, ESO, Garching, Germany, 14–18 July 2014
22. “The Zoo of AGN and a coherent picture of AGN clustering”, Clustering Measurements of Active Galactic Nuclei, ESO, Garching, Germany, 14–18 July 2014
23. “The Hidden Monsters: Obscured quasars in the era of WISE and *NuSTAR*”, High Energy Seminar, MPA, Garching, Germany, 20 December 2013
24. “Black holes and galaxy evolution: Does AGN activity follow or prevent star formation?”, Joint Astronomy Colloquium, ESO/MPA/MPE/TUM, Garching, Germany, 19 December 2013
25. “AGN feedback and the connection to triggering”, Review talk, The Triggering Mechanisms for Active Galactic Nuclei, Lorentz Center, Leiden, Netherlands, 22–26 July 2013
26. “The beauty of simplicity: Understanding galaxy and black hole evolution”, HEAD lunch talk, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, 16 July 2013
27. “The beauty of simplicity: Some insights on galaxy and black hole formation”, Physics & Astronomy Colloquium, Dartmouth College, 8 March 2013
28. “The dark and the light: Black holes, dark halos, and their influence on galaxy evolution”, Astronomy Seminar, Rutgers University, 7 March 2013
29. “The dark and the light: Black holes, dark halos, and their influence on galaxy evolution”, Cosmology Seminar, University of California, Berkeley, 12 February 2013
30. “The dark and the light: Black holes, dark halos, and their influence on galaxy evolution”, Cosmology Seminar, Stanford University, Palo Alto, CA, 11 February 2013
31. “The dark and the light: Black holes, dark matter halos, and their influence on galaxy evolution”, CRA Seminar, Center for Relativistic Astrophysics, Georgia Institute of Technology, 24 January 2013
32. “The dark and the light: Black holes, dark matter halos, and their influence on galaxy evolution”, Astronomy Colloquium, University of Florida, 23 January 2013
33. “Black Holes in the Cosmic Web: Clustering and Host Galaxies of AGN”, Illuminating the AGN/Galaxy Connection, Ringberg Castle, Germany, 3–5 December 2012
34. “What Drives the Growth of Black Holes?”, Astronomy Colloquium, University of Massachusetts, Amherst, MA, 29 November 2012
35. “Is star formation in galaxies influenced by the presence of an AGN?”, Discussion Leader, Black Hole Feedback 2012, Dartmouth College, Hanover, NH, 30 July-3 August 2012
36. “AGN evolution and the growth of supermassive black holes”, Review talk, Black Hole Universe 2012, Bamberg, Germany, 18–22 June 2012
37. “What drives the growth of black holes?”, Physics & Astronomy Colloquium, University of Wyoming, 23 March 2012

38. Conference summary on “Extreme Activity: Starbursts and Active Galactic Nuclei”, Galaxy Formation, Durham, UK, 18–22 July 2011
39. “What drives the growth of black holes?”, Astronomy Seminar, University of Sussex, 17 June 2011
40. “What drives the growth of black holes?”, Astronomy Seminar, University of Nottingham, 8 June 2011
41. “What drives the growth of black holes?”, Invited talk, 218th Meeting of the American Astronomical Society, Boston, MA 25 May 2011
42. “The dark and the light: Black holes, dark matter halos, and their influence on galaxy evolution”, INAF/Osservatorio di Bologna, Bologna, Italy, 12 May 2011
43. Leader of extended discussion on “Multi-wavelength AGN activity and tracers”, 2011 Aspen Meeting on Galaxy Evolution, Aspen, CO, 20 March 2011
44. “The dark and the light: Black holes, dark matter halos, and their influence on galaxy evolution”, Physics Colloquium, Dartmouth College, 21 February 2011
45. “The dark and the light: Black holes, dark halos, and their influence on galaxy evolution”, Astrophysics Seminar, University of Bristol, 17 February 2011
46. “Black holes in the cosmic web: host galaxies and large-scale environments of AGN”, Astrophysics Seminar, University of Sheffield, 16 February 2011
47. “The dark and the light: Black holes, dark halos, and their influence on galaxy evolution”, Steward-NOAO Joint Colloquium, Tucson, AZ, 18 January 2011
48. “The dark and the light: Black holes, dark halos, and their influence on galaxy evolution”, Astrophysics Seminar, UCL Mullard Space Science Laboratory, 28 October 2010
49. “Host galaxies and large-scale environments of AGN”, Astrophysics Seminar, University of Southampton, 27 October 2010
50. “Black holes in the cosmic web”, Invited review, AGN Populations, Parameters, and Power workshop, Birmingham, UK, 27 September 2010
51. “Black holes in the cosmic web: host galaxies and large-scale environments of AGN”, Exploratory workshop on Cosmogony of AGN: Unifying Approaches for the Next Decade, Brindisi, Italy, 3 September 2010
52. “The big picture of AGN feedback”, Astrophysics Seminar, University of Birmingham, 12 May 2010
53. “The big picture of AGN feedback: black hole accretion and galaxy evolution in multiwavelength surveys”, Astrophysics Seminar, University of Leicester, 28 October 2009
54. “Black holes through cosmic time: Exploring the distant X-ray Universe with extragalactic *Chandra* surveys”, Invited review, NERQUAM 2009, Brandeis University, 20 May 2009
55. “Massive Halos and Violent Mergers – Supermassive Black Hole and Galaxy Evolution in the Wide-field Boötes Survey”, Colloquium, South African Astronomical Observatory, Cape Town, 12 March 2009
56. “Evolution and environments of active galactic nuclei”, Astronomy Colloquium, Wesleyan University, Middletown, CT, 1 October 2008

Contributed talks and seminars

1. “Obscured AGN and the cosmic X-ray background in the era of *NuSTAR*”, Hidden Monsters: Obscured AGN in the Era of *NuSTAR* and *WISE*, Dartmouth College, 8–12 August 2016
2. “AGN synthesis of the cosmic X-ray background with *NuSTAR*”, NERQUAM 2016, Brandeis University, 9 June 2016
3. “Resolving the cosmic X-ray background with *NuSTAR* and *Chandra*”, AAS High Energy Astrophysics Division Meeting, Naples, FL, 4–7 April 2016
4. “The cosmic evolution of galaxies and black holes in the era of precision cosmology”, American Physical Society New England Regional Meeting, Hanover, NH, 6–7 November 2015
5. “The *NuSTAR* survey of the COSMOS field” (in collaboration with F. Civano), AAS 225th Annual Meeting, Seattle, WA, 5–8 January 2015
6. “Spectral energy distributions and photometric redshifts for WISE-selected obscured quasars”, AAS 225th Annual Meeting, Seattle, WA, 5–8 January 2015
7. “Resolving the cosmic X-ray background with *Chandra* and *NuSTAR*”, 15 Years of Science with *Chandra*, Boston, MA, 18–21 November 2014
8. “Black hole variability and the star formation-AGN connection: Do all star-forming galaxies host an AGN?”, AAS HEAD Meeting, Chicago, IL, 18–21 August 2014
9. “The Star Formation-AGN Connection: Do All Star-forming Galaxies Host an AGN?”, NERQUAM 2014, Cambridge, MA, 23 May 2014
10. “*NuSTAR* extragalactic survey simulations”, *NuSTAR* Extragalactic Survey Team Meeting, Durham, UK, 8 April 2014
11. “A first look at the distant high-energy X-ray population with *NuSTAR*”, Presentation to High Energy Group, MPE, Garching, Germany, 17 December 2013
12. “On the cosmic evolution of galaxies and black holes: The simplest possible picture”, Astrophysics Seminar, Durham University, 4 September 2013
13. “Black hole variability and the star formation-AGN connection: Do all star-forming galaxies host an AGN?”, Quasar Tea, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, 3 May 2013
14. “The beauty of simplicity: Understanding galaxy and black hole evolution”, Astronomy Wednesday Lunch Talk, Princeton University, 6 March 2013
15. “Colors and Composite SEDs of Type 1 and Type 2 Quasars with SDSS, WISE, and GALEX”, AAS Annual Meeting, Long Beach, CA, 6–10 January 2013
16. “AGN variability and the links between star formation and BH growth”, Black Hole Feedback 2012, Dartmouth College, Hanover, NH, 30 July–3 August 2012
17. “Clustering, Halo Mass, and Evolution of Submillimeter Galaxies”, AAS Annual Meeting, Austin, TX, 8–12 January 2012
18. “Black holes and starbursts in the cosmic web”, UK National Astronomy Meeting, Llandudno, Wales, 18 April 2011
19. “Black holes and starbursts in the cosmic web: Clustering and evolution of quasars and submillimeter galaxies”, AAS Annual Meeting, Seattle, 10 January 2011

20. “Black hole accretion modes, host galaxies, and dark matter halos”, Witnesses of Cosmic History: Formation and evolution of black holes, galaxies and their environment, Potsdam, Germany, 21 September 2010
21. “Accreting black holes in the high-redshift Universe: forecasts for the future with the *Wide-Field X-ray Telescope*”, DEX workshop, Edinburgh, UK, 8 September 2010
22. “The edge of detection: The unresolved cosmic X-ray background in the Chandra Deep Fields”, New Results in X-ray Astronomy 2010, Durham, UK, 7 September 2010
23. “Clustering of obscured and unobscured quasars”, What Drives the Growth of Black Holes? international workshop, Durham, UK, 28 July 2010
24. “The *Wide-Field X-ray Telescope*”, The Infrared-X-Ray Connection in Galaxy Evolution, Mullard Space Science Laboratory, 15 July 2010
25. “AGN accretion modes, host galaxies, and environments”, The Infrared-X-Ray Connection in Galaxy Evolution, Mullard Space Science Laboratory, 13 July 2010
26. “The big picture of AGN feedback – black hole accretion and galaxy evolution in multiwavelength surveys”, The Monster’s Fiery Breath: Feedback in Galaxies, Groups, and Clusters, Madison, WI, 1 June 2009
27. “AGN clustering in the Boötes survey”, Boötes Survey Workshop, CCAPP, OSU, Columbus, OH, 28–29 April 2009
28. “Are most low-luminosity AGN really obscured?”, Quasar Tea, Harvard-Smithsonian Center for Astrophysics, 10 April 2009
29. “Massive Halos and Violent Mergers – Exploring Supermassive Black Hole and Galaxy Evolution in the Wide-field Boötes Survey”, IfA Seminar, Royal Observatory Edinburgh, Scotland, 1 April 2009
30. “Massive Halos and Violent Mergers – Exploring Supermassive Black Hole and Galaxy Evolution in the Wide-field Boötes Survey”, Astronomy Seminar, University of the Witwatersrand, Johannesburg, South Africa, 5 March 2009
31. “Accretion in the Universe: From neutron stars to supermassive black holes”, Astronomy Seminar, University of Johannesburg, South Africa, 3 March 2009
32. “Massive Halos and Violent Mergers – Exploring Supermassive Black Hole and Galaxy Evolution in the Wide-field Boötes Survey”, Astronomy Seminar, Durham University, UK, 29 January 2009
33. “Host galaxies, clustering, and evolution of AGN”, The Starburst–AGN Connection Conference, Shanghai, China, 31 October 2008
34. “Clustering and evolution of AGN and galaxies in the Boötes Field”, CCPP Seminar, New York University, 14 October 2008
35. “Clustering of obscured and unobscured quasars”, Postdoc Symposium, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, 7 October 2008
36. “Clustering and evolution of radio, X-ray, and IR-selected AGN”, YCAA Seminar, Yale University, New Haven, CT, 30 September 2008
37. “Clustering and evolution of radio, X-ray, and IR-selected AGN”, SDSS Symposium, Chicago, IL, 15 August 2008
38. “Host galaxies, clustering, and evolution of radio, X-ray, and IR AGN at $z < 1$ ”, Radio Galaxies in the *Chandra* Era, Cambridge, MA, 10 July 2008

39. “Host galaxies, clustering, and evolution of radio, X-ray, and IR-selected AGN at $z < 1$ ”, NERQUAM 2008, Cambridge, MA, 30 May 2008
40. “Obscuration and clustering of AGN in the 9 square degree Boötes survey”, Astronomy Tea Talk, Caltech, 24 March 2008
41. “Obscuration and clustering of AGN in the 9 square degree Boötes survey”, Lunch Talk, Carnegie Observatories, Pasadena, CA, 17 March 2008
42. “Obscured quasars and AGN accretion modes, host galaxies, clustering in the 9 square degree Boötes field”, Thursday Astrophysics Seminar, Columbia University, 7 February 2008
43. “Obscured quasars and AGN accretion modes, host galaxies, clustering in the 9 square degree Boötes field”, Astronomy Wednesday Lunch Talk, Princeton University, 6 February 2008
44. “Obscured quasars and the clustering of active galaxies”, Dissertation talk, AAS Annual Meeting, Austin, TX, 8–11 January 2008
45. “Mid-infrared selected obscured AGN in the Boötes field”, CCAPP Workshop: Active Galactic Nuclei in a Cosmological Context, OSU, Columbus, OH, 1–3 October 2007
46. “Resolving the unresolved cosmic X-ray background in the *Chandra* Deep Fields”, X-ray Surveys Meeting, Rhodes, Greece, 2–6 July 2007
47. “Resolving the unresolved cosmic X-ray background in the *Chandra* Deep Fields”, HEAD Lunch Talk, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, 9 February 2007
48. “A population of obscured, infrared-selected active galaxies in the Boötes field”, *Chandra* Extragalactic Surveys Workshop, Cambridge, MA, 6–8 November 2006
49. “Identifying a population of obscured, infrared-selected active galaxies in the Boötes field”, AAS HEAD Meeting, San Francisco, CA, 3–7 October 2006
50. “A rich bounty of AGN in the 9 square degree Boötes field: redshift evolution and large-scale structure”, Durham Cosmology Conference: Cosmic Frontiers, Durham, UK, 31 July–4 August 2006
51. “Thousands of AGN in the 9 square degree Boötes field: X-ray and infrared properties”, NERQUAM 2006, Cambridge, MA, 30 May 2006

Conference posters

1. “NuSTAR Detection of Multiple Reflections in NGC 1068”, Bauer, F. E., Arevalo, P., Gandhi, P., et al., AAS 225th Annual Meeting, Seattle, WA, 5–8 January 2015, Poster #432.10
2. “The C4 Cluster Abundance Function Using Caustic Mass Estimates”, Gifford, D., Miller, C. J., Kern, N. S., Keimach, A., **Hickox, R. C.**, & Hainline, K. N., AAS 225th Annual Meeting, Seattle, WA, 5–8 January 2015, Poster #252.18
3. “Massive Compact Galaxies with High-velocity Outflows: Morphological Analysis and Constraints on AGN Activity”, Sell, P., Tremonti, C. A., **Hickox, R. C.**, et al., AAS 225th Annual Meeting, Seattle, WA, 5–8 January 2015, Poster #251.10
4. “Skype Me! Astronomers, Students, and Cutting-Edge Research”, **Hickox, Ryan C.** & Gauthier, Adrienne J., AAS Annual Meeting, Boston, MA, 1–5 June 2014
5. “Star formation and substructure in galaxy clusters”, S. A. Cohen, **R. C. Hickox**, G. A. Wegner, M. Einasto, J. Vennik, 2013, AAS Annual Meeting, Washington, DC, 5–9 January 2014
6. “A spectroscopic survey of WISE-selected obscured quasars with SALT”, **Hickox, Ryan C.**, Hainline, K., Myers, A. D., AAS Annual Meeting, Washington, DC, 5–9 January 2014

7. “An elusive X-ray iron absorption line in a candidate recoiling supermassive black hole”, Marchesi, Stefano, Civano, F. M., Lanzuisi, G., Francesca Civano, S. Marchesi, A. Comastri, E. Costantini, M. Elvis, V. Mainieri, **R. Hickox**, K. Jahnke, S. Komossa, E. Piconcelli, C. Vignali, M. Brusa, N. Cappelluti, and A. Fruscione, AAS Annual Meeting, Washington, DC, 5–9 January 2014
8. “The Halo Occupation Distribution of X-ray-Bright Active Galactic Nuclei: A Comparison with Luminous Quasars”, Chatterjee S., Richardson J., Zheng Z., Myers A. & **Hickox R.**, APS April Meeting, Denver, CO, 13–16 April 2013
9. “High-Velocity Outflows from Eddington-Limited Starbursts”, Diamond-Stanic, A. M., Moustakas, J., Tremonti, C. A., Coil, A. L., **Hickox, R. C.**, Sell, P., Robaina, A., Rudnick, G., Geach, J., Canalizo, G., AAS Annual Meeting, Long Beach, CA, 6–10 January 2013
10. “SALT Longslit Spectroscopy of Luminous Obscured Quasars”, Hainline, K., **Hickox, R. C.**, Greene, J. E., AAS Annual Meeting, Long Beach, CA, 6–10 January 2013
11. “Characterizing the Iron K α Line Equivalent Width”, Trouille, L., **Hickox, R. C.**, Alexander, D., AAS Annual Meeting, Long Beach, CA, 6–10 January 2013
12. “The NuSTAR Obscured AGN Observing Program”, Walton, D., Alexander, D., Assef, R., Balokovic, M., Bauer, F. E., Boggs, S. E., Boydston, K., Brandt, W. N., Christensen, F., Comastri, A., Craig, W., Farrah, D., Fiore, F., Hailey, C. J., Harrison, F., **Hickox, R. C.**, Luo, B., Madsen, K., Rigby, J. R., Risaliti, G., Stern, D., Teng, S. H., Veilleux, S., Zhang, W., AAS Annual Meeting, Long Beach, CA, 6–10 January 2013
13. “Extragalactic Surveys with NuSTAR”, Boydston, K., Ajello, M., Alexander, D., Assef, R. J., Ballantyne, D. R., Balokovic, M., Bauer, F. E., Boggs, S. E., Brandt, W. N., Christensen, F., Civano, F. M., Comastri, A., Craig, W., Del Moro, A., Elvis, M., Fiore, F., Hailey, C. J., Harrison, F., Helfand, D. J., **Hickox, R. C.**, LaMassa, S. M., Lansbury, G., Luo, B., Madsen, K., Markwardt, C., Mullaney, J., Puccetti, S., Saez, C., Stern, D., Tagliaferri, G., Treister, E., Urry, C. M., Walton, D., Zhang, W., NuSTAR Science Team, AAS Annual Meeting, Long Beach, CA, 6–10 January 2013
14. “Deep Silicate Features in Compton-thick AGN Arise due to Dust in the Host Galaxy”, Goulding, A. D., Alexander, D. M., Bauer, F., Forman, W. R., **Hickox, R. C.**, Jones, C., Mullaney, J., Trichas, M., AAS Annual Meeting, Long Beach, CA, 6–10 January 2013
15. “Halo Occupation Properties of X-ray AGNs”, Starikova, S., Cool, R., Eisenstein, D., Forman, W. R., Jones, C., **Hickox, R. C.**, Kenter, A., Kochanek, C. S., Kravtsov, A., Murray, S. S., Vikhlinin, A., AAS Annual Meeting, Anchorage, AK, 10–14 June 2012
16. “Composition Of Gas And Dust In Obscured And Unobscured Agn In The Boötes Field”, Usman, S., Murray, S. S., **Hickox, R. C.**, Brodwin, M., AAS Annual Meeting, Anchorage, AK, 10–14 June 2012
17. “Characterizing the Iron K α Line Equivalent Width in Heavily Obscured AGN”, Trouille, L., **Hickox, R.**, Alexander, D., AAS Annual Meeting, Anchorage, AK, 10–14 June 2012
18. “Clustering and halo masses of 870- μ m selected submm galaxies”, **Hickox, R. C.**, Wardlow, J. L., Myers, A. D., Smail, I. and the LESS Collaboration, Galaxy Formation, Durham, 18–22 July 2011
19. “Clustering and halo masses of 870- μ m selected submm galaxies”, **Hickox, R. C.**, Wardlow, J. L., Myers, A. D., Smail, I. and the LESS Collaboration, Unveiling the Far-IR and Sub-mm Extragalactic Universe: Herschel, ALMA, CCAT, SPICA, and Beyond, Irvine, CA, 12–14 May 2011
20. “Understanding the growth and evolution of supermassive black holes with the *Wide-Field X-ray Telescope*”, Sivakoff, G. R., Gilli, R., Brandt, W. N., **Hickox, R. C.**, Murray, S. S. and the *WFXT* Team, AAS Annual Meeting, Washington, DC, 3–7 January 2010

21. “Constraining the outburst properties of the SMBH in Fornax A through X-ray, infrared, and radio observations”, Lanz, L., Jones, C., Forman, W. R., Ashby, M. L. N., Kraft, R. & **Hickox, R. C.**, AAS Annual Meeting, Washington, DC, 3–7 January 2010
22. “*Suzaku* X-ray spectra and pulse profile variations during the superorbital cycle of LMC X-4”, Hung, L.-W., **Hickox, R. C.**, Boroson, B. S., Vrtilik, S. D., AAS Annual Meeting, Washington, DC, 3–7 January 2010
23. “Optically obscured accretion in $z \sim 0.5$ galaxies”, **Hickox, R. C.**, Assef, R. J., Kochanek, C. S., Murray, S. S., Jones, C., Forman, Satyam, V., Vikhlinin, A. and the XBoötes, AGES, NDWFS, IRAC Shallow Survey, Boötes MIPS, & FLAMEX Teams, *Chandra’s* First Decade of Discovery, Boston, MA, 22–25 September 2009
24. “Evidence for solar wind charge exchange emission towards the Chandra Deep Field North”, Slavin, J., Wargelin, B. J. & **Hickox, R. C.**, *Chandra’s* First Decade of Discovery, Boston, MA, 22–25 September 2009
25. “Superorbital variation in LMC X-4: tracing the precessing disk”, Hung, L.-W., **Hickox, R. C.**, Boroson, B., Vrtilik, S. D., *Chandra’s* First Decade of Discovery, Boston, MA, 22–25 September 2009
26. “Optically obscured accretion in $z \sim 0.5$ galaxies”, **Hickox, R. C.**, Assef, R. J., Kochanek, C. S., Murray, S. S., Jones, C., Forman, Satyam, V., Vikhlinin, A. & the XBoötes, AGES, NDWFS, IRAC Shallow Survey, Boötes MIPS, and FLAMEX Teams, *Chandra’s* First Decade of Discovery, Boston, MA, 22–25 September 2009
27. “AGN Accretion Modes, Host Galaxies, And Clustering”, **Hickox, R. C.**, Jones, C., Forman, W. R., Murray, S. S., Anderson, M., & the NDWFS, AGES, XBoötes, & IRAC Shallow Survey Teams, AAS HEAD Meeting, Los Angeles, CA, 31 March–3 April 2008
28. “A large population of infrared-selected, obscured AGN in the Boötes field”, Jones, C., **Hickox, R.**, Murray, S., Forman, W., Brodwin, M., & the XBoötes, IRAC Shallow Survey, NDWFS, & AGES Teams, AAS Annual Meeting, Seattle, WA, 5–10 January 2007
29. “X-ray Bright Optically Normal Galaxies (XBONGs) in the XBoötes Field”, Anderson, M., Murray, S., Jones, C., Kenter, A., Forman, B., **Hickox, R.**, AAS Annual Meeting, Seattle, WA, 5–10 January 2007
30. “X-ray and infrared properties of galaxies and AGNs in the 9 square degree Boötes field”, **Hickox, R. C.**, Jones, C., Forman, W. R., Murray, S. S., Brodwin, M., & the *Chandra* XBoötes, *Spitzer* IRAC Shallow Survey, AGES, & NOAO DWFS Teams, The Spitzer Science Center 2005 Conference: Infrared Diagnostics of Galaxy Evolution, Pasadena, CA, 14–16 November 2005
31. “Intensity of the unresolved X-ray background for 2-7 keV with *Chandra*”, **Hickox, R. C.**, Markevitch, M., & Jones, C., Six Years of Science with *Chandra* Symposium, Cambridge, MA, November 2005
32. “Exploring SMC X-1 out of eclipse with *Chandra* and *XMM*”, **Hickox, R. C.** & Vrtilik, S. D., AAS HEAD Meeting, New Orleans, LA, September 2004
33. “The origin of the soft excess in X-ray pulsars”, **Hickox, R. C.** & Narayan, R., AAS Annual Meeting, Atlanta, GA, January 2004