

Dr. Steve Croft

UC Berkeley Department of Astronomy, 501 Campbell Hall #3411, Berkeley, CA 94720, USA

PERSONAL DETAILS

Citizenships: USA and UK dual national

Professional Memberships: Fellow of the Royal Astronomical Society, Member of the American Astronomical Society, Member of the International Astronomical Union, Member of the Astronomical Society of the Pacific

EDUCATION

1998 - 2002 **Oxford University, UK: DPhil (PhD) Astrophysics**

Galaxy clustering at high redshift from radio surveys. Advisor: Steve Rawlings

1994 - 1998 **University College London (London University), UK: MSci Astrophysics**

MSci project: Magnetism and Accretion in AM Herculis

Degree class: First class honours

1987 - 1994 **Caldy Grange Grammar School, UK**

(1994) A-level: Physics: A, Mathematics: A, Further Mathematics: B, Geography: A, General Studies: A, Music: C (best A-level results in school)

(1993) AO: German for Business Studies: A

(1992) GCSE: 10 Grade A, 1 Grade B (best GCSE results in school)

(1991) GCSE: Mathematics: A

EMPLOYMENT

2014 - **Assistant Project Astronomer, University of California, Berkeley / Scientist VI, Eureka Scientific**

Co-PI on \$232k grant to study supermassive black hole growth and transient radio sources with the Murchison Widefield Array, with David Kaplan, UW-Milwaukee (PI). Leading the outreach, education, and public data program, in addition to proposal writing and scientific data analysis, for UC Berkeley SETI Research Center and for the Breakthrough Listen project.

2012 - 2013 **Researcher, University of Wisconsin, Milwaukee (with David Kaplan) - based at UCB**

Very Large Array transient searches.

2011 - 2014 **Assistant Project Astronomer, University of California, Berkeley (with Geoff Bower / Carl Heiles)**

Surveys with the Allen Telescope Array. Key member of proposal and implementation team for \$800k in NASA education projects.

2007 - 2011 **Associate Specialist, University of California, Berkeley (with Geoff Bower)**

Surveys with the Allen Telescope Array. X-ray observations of radio transients. \$25k grant to collaborate with Lawrence Livermore National Lab (LLNL) on time-domain sky surveys. Principal Investigator on \$133k Spitzer Space Telescope project: The Most Extreme Starbursts in the Local Universe.

2007 **Postdoctoral Researcher, University of California, Davis (with Bob Becker) - based at LLNL**

Radio galaxies in galaxy cluster environments.

2005 - 2007 **Postdoctoral Researcher, University of California, Merced (with Wil van Breugel) - based at LLNL**

P.I. on \$50k Spitzer project: Studying the Populations of Radio Sources in the Bootes Deep Field. Co-I on Spitzer project: IRAC imaging of high-z, low-luminosity radio galaxies in NDWFS and FLS.

2002 - 2005 **Postdoctoral Researcher, Lawrence Livermore National Laboratory (with Wil van Breugel)**

Radio galaxies, their environments, evolution, clustering, and triggering. Jet-induced star-formation. Galaxy clusters and proto-clusters.

TEACHING

- 2015 - **Undergraduate project advisor**
Advising two UC Berkeley undergraduates working with me on analysis of survey data from the Murchison Widefield Array.
- 2012 - 2013 **Undergraduate project advisor**
Advising a UC Berkeley undergraduate working with me on analysis of Kepler lightcurves of active galactic nuclei.
- 2007 - 2010 **Co-advisor for UC Riverside PhD Student**
Data from the Spitzer project I led formed the major part of the thesis of a student whom I co-advised.
- 2000 - 2002 **Part-time A-level Physics and Math Instructor, Greene's Tutorial College, Oxford**
Extensive part-time teaching experience, including full responsibility for entire A-level Physics course for three students.
- 2000 - 2002 **Graduate Student Instructor, Oxford University Astrophysics**
Introductory Astronomy.
- 1996 **Part-time Physics and Math Tutor**
Teaching physics and math to GCSE and A-level students.

PUBLIC OUTREACH

- 2015 - Outreach, education, and public data lead, Berkeley SETI Research Center (<http://facebook.com/BerkeleySETI>) and Breakthrough Listen (<http://seti.berkeley.edu/listen>)
- 2016 Invited keynote address to 25 high school heads, Malone Scholars conference, Stanford University
- 2015 Designed 11 new lessons for the Big History Project (http://bit.do/bhp_astro)
- 2013 - Science@Cal Advisory Board
- 2010 - Lead monthly Science@Cal lecture series (<http://scienceatcal.berkeley.edu/lectures>)
- 2012 - 2015 Co-lead, \$130k "EVOLVE" E/PO grant; delivering web resources for teachers on astronomy and evolution (http://bit.do/place_for_life)
- 2012 - 2015 Co-lead, \$670k "ASPIRE" E/PO grant; delivering weekly workshops combining art and science, focusing on underrepresented minority interest in astronomy (<http://nasanovas.org>)
- 2012 Collaborated with UK school on high altitude balloon project (<http://bbc.in/Q065ZK>)
- 2012 Worked with San Francisco Arts Commission on "Vast and Undetectable" exhibit
- 2011, 2012 Planning committee for two Bay Area Science Festivals (<http://scienceatcal.berkeley.edu/festival>)
- 2010 - 2011 Volunteer for ASP Project ASTRO (visiting inner-city special needs classroom)
- 2009 Led International Year of Astronomy activities at UC Berkeley (<http://astro.berkeley.edu/iya>)
- 2008 Instructor, Chabot Space and Science Center Black Hole Summer Institute
- Frequent speaker to local astronomical societies and other groups

GRANTS

- 2016 NASA HST GO, \$56,000, PI
- 2014 NSF AAG, \$232,000, co-PI
- 2012 NASA ROSES Education Supplemental, \$130,000, originator and co-lead
- 2012 NASA EPOESS, \$670,000, originator and co-lead
- 2012 Fund for Astrophysical Research, \$3,000, PI
- 2008 LLNL, \$25,000, proposal author
- 2007 - 2014 Five AAS International Travel Grants, \$7,000 total, PI
- 2007 NASA Spitzer GO, \$133,000, PI
- 2005 NASA Spitzer Archival, \$50,000, PI
- 1999 Corpus Christi College, Oxford, \$4,000

ACTIVITIES AND ACHIEVEMENTS

Professional:

2016 Hubble Space Telescope Mid-Cycle Review Panel
2014 - Associate Member, NANOGrav collaboration
2014 - Associate Member, Murchison Widefield Array collaboration
2014 - Advisor, Square Kilometer Array Transient Science Working Group
2008- Seminar organizer, UC Berkeley Radio Astronomy Laboratory
2011 Co-organizer of workshop on radio transients at International Astronomical Union Symposium 285
2010 Participated in American Astronomical Society Congressional Visits
2009 4th Prize, Boeing / Griffith Observer Science Writing Competition
2009 Spitzer Space Telescope Cycle 6 Time Allocation Committee Extragalactic Panel

- Frequent journal referee (A&A, ApJ, AJ, MNRAS, PASP, Ap&SS, ASCOM)

Oxford University:

2002 Awarded Willmer Prize for science writing, Corpus Christi College, Oxford
2000 Senior Scholarship, Corpus Christi College
1999 - 2000 Organized lunchtime seminars, Oxford University Astrophysics

University College London:

1995 - 1997 President, Astronomy Society
1996 - 1998 Staff - Student Consultative Committee

COMPUTING SKILLS

Extensive experience with Mac OS, Windows, Linux, Python / Jupyter, Perl, C/C++, LaTeX, HTML, and astronomy data reduction environments MIRIAD, IRAF, AIPS, and CASA. Some familiarity with SQL, Fortran, IDL, Tcl/Tk. Much of my work involves extensive scripting, analysis of large datasets, visualization and image processing.

ASTRONOMY SKILLS

Experience preparing and executing observations, reducing and analyzing data in optical (imaging and spectroscopy), near- and mid-IR, and radio. Observer and PI on Allen Telescope Array (~40 days), CARMA (~30 days), and Lick 3-m (~40 nights). PI on successful HST, Spitzer, and GMRT proposals. Observer and co-I on GBT (> 200 hours), WHT, UKIRT, IRTF, Calar Alto 3.5-m, McDonald 0.8-m, Keck (14 nights), and McDonald 2.7-m (~70 nights, including 50 as sole telescope operator). Co-I on successful ALMA, MWA, VLA and Kepler proposals.

REFEREED PUBLICATIONS

38. **Space Telescope and Optical Reverberation Mapping Project. V. Optical Spectroscopic Campaign and Emission-Line Analysis**
Pei, L., and 153 co-authors including **Croft, S.** 2016, ApJ, submitted.
37. **Low Frequency Spectral Energy Distributions of Radio Pulsars from the Murchison Widefield Array**
Murphy, T., Kaplan, D. L., Bell, M. E., Callingham, J. R., **Croft, S.**, Johnston, S., Dobie, D., Zic, A., Hughes, J., Lynch, C., Hancock, P., Hurley-Walker, N., Lenc, E., Dwarakanath, K. S., For, B.-Q., Gaensler, B. M., Hindson, L., Johnston-Hollitt, M., Kapinska, A., McKinley, B., Morgan, J., Offringa, A. R., Procopio, P., Staveley-Smith, L., Wayth, R., Wu, C., Zheng, Q. 2016, MNRAS, submitted
36. **A Search for Long-Timescale, Low-Frequency Radio Transients**
Murphy, T., Kaplan, D. L., **Croft, S.**, Lynch, C., Callingham, J. R., Bannister, K., Bell, M. E., Hurley-Walker, N., Hancock, P., Line, J., Rowlinson, A., Ekers, R. D., Tingay, S., Dwarakanath, K. S., For, B.-Q., Gaensler, B. M., Hindson, L., Johnston-Hollitt, M., Kapinska, A. D., McKinley, B., Morgan, J., Offringa, A. R., Procopio, P., Staveley-Smith, L., Wayth, R., Wu, C., Zheng, Q. 2016, MNRAS, submitted

35. **Transient Events in Archival Very Large Array Observations of the Galactic Center**
Chiti, A., Chatterjee, S., Wharton, R., Cordes, J. T., Lazio, W., Kaplan, D. L., Bower, G. C., **Croft, S.** 2016, ApJ, in press
<https://arxiv.org/abs/1610.00403>
34. **Strategies for Finding Prompt Radio Counterparts to Gravitational Wave Transients with the Murchison Widefield Array**
Kaplan, D. L., Murphy, T., Rowlinson, A., **Croft, S. D.**, Wayth, R. B. 2016, PASA, in press
<http://arxiv.org/abs/1609.00634>
33. **Time-domain and Spectral Properties of Pulsars at 154 MHz**
Bell, M. E., Murphy, T., Johnston, S., Kaplan, D. L., **Croft, S.**, Hancock, P., Callingham, J. R., Zic, A., Dobie, D., Swiggum, J. K., Rowlinson, A., Hurley-Walker, N., Offringa, A. R., Bernardi, G., Bowman, J. D., Briggs, F., Cappallo, R. J., Deshpande, A. A., Gaensler, B. M., Greenhill, L. J., Hazelton, B. J., Johnston-Hollitt, M., Lonsdale, C. J., McWhirter, S. R., Mitchell, D. A., Morales, M. F., Morgan, E., Oberoi, D., Ord, S. M., Prabu, T., Udaya Shankar, N., Srivani, K. S., Subrahmanyam, R., Tingay, S., Wayth, R. B., Webster, R. L., Williams, A., Williams, C. L. 2016, MNRAS, 461, 908
<https://arxiv.org/abs/1605.09100>
32. **Supplement: Localization and Broadband Follow-up of the Gravitational-Wave Transient GW150914**
Abbott, B. P., and 1360 co-authors including **Croft, S.** 2016, ApJS, 225, 8
<http://arxiv.org/abs/1604.07864>
31. **Murchison Widefield Array Limits on Radio Emission from ANTARES Neutrino Events**
Croft, S., Kaplan, D. L., Tingay, S. J. and 130 additional co-authors 2016, ApJL, 820, 24
<http://arxiv.org/abs/1603.02271>
30. **Localization and Broadband Follow-up of the Gravitational-Wave Transient GW150914**
Abbott, B. P., and 1360 co-authors including **Croft, S.** 2016, ApJL, 826, 13
<http://arxiv.org/abs/1602.08492>
29. **A Deep Search for Prompt Radio Emission from the Short GRB 150424A with the Murchison Widefield Array**
Kaplan, D. L., Rowlinson, A., Bannister, K. W., Bell, M. E., **Croft, S.**, Murphy, T., Tingay, S. J., Wayth, R. B., Williams, A. 2015, ApJL, 814, 25
<http://arxiv.org/abs/1511.03656>
28. **Time domain studies of Active Galactic Nuclei with the Square Kilometre Array**
Bignall, H., **Croft, S.**, Hovatta, T., Koay, J. Y., Lazio, J., Macquart, J.-P., Reynolds, C. 2015, in Advancing Astrophysics with the Square Kilometre Array, PoS(AASKA14)058
<http://arxiv.org/abs/1501.04627>
27. **The Allen Telescope Array Pi GHz Sky Survey - III: The ELAIS-N1, Coma, and Lockman Hole Fields**
Croft, S., Bower, G. C., Whysong, D. 2013, ApJ, 762, 93
<http://arxiv.org/abs/1211.4027>
26. **ASGARD: A Large Survey for Slow Galactic Radio Transients - I: Overview and First Results**
Williams, P. K. G., Bower, G. C., **Croft, S.**, Keating, G. K., Law, C. J., Wright, M. 2013, ApJ, 762, 85
<http://arxiv.org/abs/1211.1042>
25. **VAST: An ASKAP Survey for Variables and Slow Transients**
Murphy, T., Chatterjee, S., Kaplan, D. L., Banyer, J., Bell, M. E., Bignall, H. E., Bower, G. C., Cameron, R., Coward, D. M., **Croft, S.**, Curran, J. R., Djorgovski, S. G., Farrell, S. A., Frail, D. A., Gaensler, B. M., Galloway, D. K., Gendre, B., Green, A. J., Hancock, P. J., Johnston, S., Kamble, A., Law, C. J., Lazio, T. J. W., Lo, K. K., Macquart, J.-P., Rea, N., Rebbapragada, U., Reynolds, C., Ryder, S. D., Schmidt, B., Soria, R., Stairs, I. H., Tingay, S. J., Torkelsson, U., Wagstaff, K., Walker, M., Wayth, R. B., Williams, P. K. G. 2013, PASA, 30, 6
<http://arxiv.org/abs/1207.1528>
24. **X-Ray Observations of Radio Transients without Optical Hosts**
Croft, S., Tomsick, J., Bower, G. C. 2011, ApJ, 740, 87
<http://arxiv.org/abs/1107.5039>

23. **The Allen Telescope Array Pi GHz Survey II. Daily and Monthly Monitoring for Transients and Variability in the Bootes Field**
Bower, G. C., Whysong, D., Blair, S., **Croft, S.**, Keating, G., Law, C., Williams, P. K. G., Wright, M. 2011, ApJ, 739, 76
<http://arxiv.org/abs/1107.1517>
22. **Primary Beam and Dish Surface Characterization at the Allen Telescope Array by Radio Holography**
Harp, G. R., Ackerman, R. F., Nadler, Z. J, Blair, S. K., Davis, M. M., Wright, M. C. H., Forster, J. R., DeBoer, D. R., Welch, W. J., Atkinson, S., Backer, D. C., Backus, P. R., Barott, W., Bauermeister, A., Blitz, L., Bock, D. C.-J., Bower, G. C., Bradford, T., Cheng, C., **Croft, S.**, Dexter, M., Dreher, J., Engargiola, G., Fields, E. D., Heiles, C., Helfer, T., Jordan, J., Jorgensen, S., Kilsdonk, T., Gutierrez-Kraybill, C., Keating, G., Law, C., Lugten, J., MacMahon, D. H. E., McMahon, P., Milgrome, O., Siemion, A., Smolek, K., Thornton, D., Pierson, T., Randall, K., Ross, J., Shostak, S., Tarter, J. C., Urry, L., Werthimer, D., Williams, P. K. G., Whysong, D. 2011 IEEE Transactions on Antennas and Propagation, 59, 2004
<http://arxiv.org/abs/1210.8246>
21. **The Allen Telescope Array Twenty-centimeter Survey - A 700-Square-Degree, Multi-Epoch Radio Dataset - II: Individual Epoch Transient Statistics**
Croft, S., Bower, G. C., Keating, G., Law, C., Whysong, D., Williams, P. K. G., Wright, M. 2011, ApJ, 731, 34
<http://arxiv.org/abs/1102.2227>
20. **Spectropolarimetry with the Allen Telescope Array: Faraday Rotation toward Bright Polarized Radio Galaxies**
Law, C. J., Gaensler, B. M., Bower, G. C., Backer, D. C., Bauermeister, A., **Croft, S.**, Forster, R., Gutierrez-Kraybill, C., Harvey-Smith, L., Heiles, C., Hull, C., Keating, G., MacMahon, D., Whysong, D., Williams, P. K. G., Wright, M. 2011, ApJ, 728, 57
<http://arxiv.org/abs/1012.0945>
19. **Primary Beam Shape Calibration from Mosaicked Observations**
Hull, C. L. H., Bower, G. C., **Croft, S.**, Williams, P. K. G., Law, C., Whysong, D. 2010, PASP, 122, 1510
<http://arxiv.org/abs/1010.1064>
18. **The Allen Telescope Array Pi GHz Sky Survey I. Survey Description and Static Catalog Results for the Bootes Field**
Bower, G. C., **Croft, S.**, Keating, S., Whysong, D., Ackermann, R., Atkinson, S., Backer, D., Backus, P., Barott, W., Bauermeister, A., Blitz, L., Bock, D., Bradford, T., Cheng, C., Cork, C., Davis, M., DeBoer, D., Dexter, M., Dreher, J., Engargiola, G., Fields, E., Fleming, M., Forster, R. J., Gutierrez-Kraybill, C., Harp, G., Heiles, C., Helfer, T., Hull, C., Jordan, J., Jorgensen, S., Kilsdonk, T., Law, C., van Leeuwen, J., Lugten, J., MacMahon, D., McMahon, P., Milgrome, O., Pierson, T., Randall, K., Ross, J., Shostak, S., Siemion, A., Smolek, K., Tarter, J., Thornton, D., Urry, L., Vitouchkine, A., Wadefalk, N., Weinreb, S., Welch, J., Werthimer, D., Williams, P. K. G., Wright, M. 2010, ApJ, 725, 1792
<http://arxiv.org/abs/1009.4443>
17. **The Multi-Wavelength Extreme Starburst Sample of Luminous Galaxies – I: Sample Characteristics**
Laag, E., **Croft, S.**, Canalizo, G., Lacy, M. 2010, AJ, 140, 2052
<http://arxiv.org/abs/1010.1704>
16. **The Allen Telescope Array Twenty-centimeter Survey - A 690-Square-Degree, 12-Epoch Radio Dataset - I: Catalog and Long-Duration Transient Statistics**
Croft, S., Bower, G., Backer, D., Blitz, L., Bock, D., Cheng, C., Cork, C., Dexter, M., Engargiola, G., Fields, E., Forster, J. R., Gutierrez-Kraybill, C., Helfer, T., Jorgensen, S., Keating, G., Lugten, J., MacMahon, D., Milgrome, O., Thornton, D., Urry, L., Law, C., van Leeuwen, J., Werthimer, D., Wright, M., Tarter, J., Ackermann, R., Atkinson, S., Backus, P., Barott, W., Bradford, T., Davis, M., DeBoer, D., Dreher, J., Harp, G., Jordan, J., Kilsdonk, T., Pierson, T., Randall, K., Ross, J., Shostak, S., Fleming, M., Vitouchkine, A., Wadefalk, N., Welch, J., Williams, P., Smolek, K., Siemion, A., Whysong, D., McMahon, P. 2010, ApJ, 719, 45
<http://arxiv.org/abs/1006.2003>

15. **A Galaxy Populations Study of a Radio-Selected Protocluster at $z \sim 3.1$**
Kuiper, E., Hatch, N. A., Röttgering, H. J. A., Miley, G. K., Overzier, R. A., Venemans, B. P., De Breuck, C., **Croft, S.**, Kajisawa, M., Kodama, T., Kurk, J. D., Pentericci, L., Stanford, S. A., Tanaka, I., Zirm, A. W. 2010, MNRAS, 405, 969.
<http://arxiv.org/abs/1002.4198>
14. **Mid-Infrared Variability from the Spitzer Deep, Wide-Field Survey (SDWFS)**
Kozlowski, S., Kochanek, C. S., Stern, D., Ashby, M. L. N., Assef, R. J., Bock, J. J., Borys, C., Brand, K., Brodwin, M., Brown, M. J. I., Cool, R., Cooray, A., **Croft, S.**, Dey, A., Eisenhardt, P. R., Gonzalez, A., Gorjian, V., Griffith, R., Grogan, N., Ivison, R., Jacob, J., Jannuzi, B. T., Mainzer, A., Moustakas, L., Röttgering, H., Seymour, N., Smith, H. A., Stanford, S. A., Stauffer, J. R., Sullivan, I. S., van Breugel, W., Willner, S. P., Wright, E. L. 2010, ApJ, 716, 530
<http://arxiv.org/abs/1002.3365>
13. **The TexOx-1000 redshift survey of radio sources I: the TOOT00 region**
Vardoulaki, E., Rawlings, S., Hill, G. J., Inskip, K., Riley, J., Brand, K., **Croft, S.**, Mauch, T., Willott, C. 2009, MNRAS, 401, 1709
<http://arxiv.org/abs/0909.5691>
12. **The Allen Telescope Array: The First Widefield, Panchromatic, Snapshot Radio Camera for Radio Astronomy and SETI**
Welch, J., Backer, D., Blitz, L., Bock, D., Bower, G. C., Cheng, C., **Croft, S.**, Dexter, M., Engargiola, G., Fields, E., Forster, R., Gutierrez-Kraybill, C., Heiles, C., Helfer, T., Jorgensen, S., Keating, G., Lugten, J., MacMahon, D., Milgrome, O., Thornton, D., Urry, L., van Leeuwen, J., Werthimer, D., Williams, P., Wright, M., Tarter, J., Ackermann, R., Atkinson, S., Backus, P., Barott, W., Bradford, T., Davis, M., DeBoer, D., Dreher, J., Harp, G., Jordan, J., Kilsdonk, T., Pierson, T., Randall, K., Ross, J., Shostak, S., Fleming, M., Cork, C., Vitouchkine, A., Wadefalk, N., Weinreb, S. 2009, Proceedings of the IEEE, 97, 1438
<http://arxiv.org/abs/0904.0762>
11. **The Spitzer Deep, Wide-Field Survey (SDWFS)**
Ashby, M. L. N., Stern, D., Brodwin, M., Eisenhardt, P., Kozlowski, S., Bock, J. J., Borys, C., Brand, K., Brown, M. J. I., Cool, R., Cooray, A., **Croft, S.**, Dey, A., Eisenstein, D., Gonzalez, A., Gorjian, V., Griffith, R., Grogan, N., Ivison, R., Jacob, J., Jannuzi, B., Kochanek, C., Mainzer, A., Moustakas, L., Röttgering, H. J. A., Seymour, N., Smith, H. A., Stanford, A., Sullivan, I., van Breugel, W., Wright, E. L., Willner, S. P. 2009, ApJ, 701, 428
<http://arxiv.org/abs/0906.0024>
10. **A young, dusty, compact radio source within a large Ly α halo**
Barrio, F. E., Jarvis, M. J., Rawlings, S., Bauer, A., **Croft, S.**, Hill, G. J., Machado, A., McLure, R. J., Smith, D. J. B., Targett, T. A. 2008, MNRAS, 389, 792
<http://arxiv.org/abs/0806.3688>
9. **Radio-loud high-redshift protogalaxy candidates in Boötes**
Croft, S., van Breugel, W., Brown, M. J. I., de Vries, W., Dey, A., Eisenhardt, P., Jannuzi, B., Röttgering, H., Stanford, S. A., Stern, D., Willner, S. P. 2008, AJ, 135, 1793
<http://arxiv.org/abs/0803.0325>
8. **Radio AGNs in 13,240 galaxy clusters from the Sloan Digital Sky Survey**
Croft, S., de Vries, W., Becker, R. H. 2007, ApJL, 667, 13
<http://arxiv.org/abs/0708.0585>
7. **Imaging and Spectroscopy of a sample of Ultra Steep Spectrum Radio Sources**
Bornancini, C. G., De Breuck, C., de Vries, W., **Croft, S.**, van Breugel, W., Röttgering, H., Minniti, D. 2007, MNRAS, 378, 551
<http://arxiv.org/abs/astro-ph/0703664>
6. **Protoclusters associated with $z > 2$ radio galaxies I. Characteristics of high redshift protoclusters**
Venemans, B. P., Röttgering, H. J. A., Miley, G. K., van Breugel, W. J. M., De Breuck, C., Kurk, J. D., Pentericci, L., Stanford, S. A., Overzier, R. A., **Croft, S.**, Ford, H. 2007, A&A, 461, 823
<http://arxiv.org/abs/astro-ph/0610567>

5. **The 6C** sample of steep-spectrum radio sources: I – Radio data, near-infrared imaging and optical spectroscopy**
Cruz, M. J., Jarvis, M. J., Blundell, K. M., Rawlings, S., **Croft, S.**, Klöeckner, H.-R., McLure, R. J., Simpson, C., Targett, T. A., Willott, C. J. 2006, MNRAS, 373, 1531
<http://arxiv.org/abs/astro-ph/0609790>
4. **Minkowski's Object: A Starburst Triggered by a Radio Jet, Revisited**
Croft, S., van Breugel, W., de Vries, W., Dopita, M., Martin, C., Morganti, R., Neff, S., Oosterloo, T., Schiminovich, D., Stanford, S. A., van Gorkum, J. 2006, ApJ, 647, 1040
<http://arxiv.org/abs/astro-ph/0604557>
3. **The filamentary Large Scale Structure around the $z = 2.16$ radio galaxy PKS 1138-262**
Croft, S., Kurk, J., van Breugel, W., Stanford, S. A., de Vries, W., Pentericci, L., Rottgering, H. 2005, AJ, 130, 867
<http://arxiv.org/abs/astro-ph/0505354>
2. **Detection of a CMB decrement towards a cluster of mJy radiosources**
Cotter, G., Buttery, H. J., Rawlings, S., **Croft, S.**, Hill, G. J., Das, R., Drory, N., Grainge, K., Grainger, W. F., Jones, M. E., Pooley, G. G., Saunders, R. 2002 MNRAS, 331, 1
<http://arxiv.org/abs/astro-ph/0109506>
1. **A sample of 6C radio sources designed to find objects at redshift > 4 : III - imaging and the radio galaxy K-z relation**
Jarvis, M. J., Rawlings, S., Eales, S., Blundell, K. M., Bunker, A. J., **Croft, S.**, McClure, R. J., Willott, C. J. 2001 MNRAS, 326, 1585
<http://arxiv.org/abs/astro-ph/0106130>

CONFERENCE PROCEEDINGS, WHITE PAPERS, AND OTHER PUBLICATIONS

14. **Breakthrough Listen Follow-up of a Transient Signal from the RATAN-600 Telescope in the Direction of HD 164595**
Croft, S., Siemion, A., MacMahon, D., Lebofsky, M., Isaacson, H., Hickish, J., Price, D., Werthimer, D., Gajjar, V., DeBoer, D. 2016, Berkeley SETI Research Center Memo
<https://seti.berkeley.edu/HD164595.pdf>
13. **Art in Science Promoting Interest in Research and Exploration (ASPIRE)**
Fillingim, M., Zevin, D., Thrall, L., **Croft, S.**, Rafferty, C., Shackelford, R. 2015, ASP Conf. Series Vol. 500
<http://aspbooks.org/custom/publications/paper/500-0265.html>
12. **Full STEAM Ahead with the NASA Opportunities in Visualization, Art, and Science (NOVAS) Program**
Zevin, D., **Croft, S.**, Thrall, L., Fillingim, M., Cook, L. R. 2015, ASP Conf. Series Vol. 500
<http://aspbooks.org/custom/publications/paper/500-0093.html>
11. **Wide-Field Imaging and Transient Statistics from the ATA 20 cm Survey**
Croft, S., Bower, G. 2010, Proceedings of Science, ISKAF2010, 014
http://pos.sissa.it/archive/conferences/112/014/ISKAF2010_014.pdf
10. **UC Berkeley's Celebration of the International Year of Astronomy 2009**
Cobb, B. E., **Croft, S.**, Silverman, J. M., Klein, C., Modjaz, M. 2010, ASP Conf. Series Vol. 431
<http://aspbooks.org/custom/publications/paper/431-0347.html>
9. **The Dynamic Radio Sky: An Opportunity for Discovery**
Lazio, J., Bloom, J. S., Bower, G. C., Cordes, J., **Croft, S.**, Hyman, S., Law, C., McLaughlin, M. 2009, Astro2010 Decadal Survey Science white paper.
<http://arxiv.org/abs/0904.0633>
8. **High Redshift Ly α Haloes**
van Breugel, W., de Vries, W., **Croft, S.**, De Breuck, C., Dopita, M., Miley, G., Reuland, M., Röttgering, H. 2006, AN, 327, 175

7. **The TOOT00 Redshift Survey of Radio Sources**
Vardoulaki, E., Rawlings, S., Hill, G. J., **Croft, S.**, Brand, K., Riley, J., Willott, C. 2006, AN, 327, 282
<http://arxiv.org/abs/astro-ph/0509491>
6. **Jet-Induced Star Formation: Good News From Big Bad Black Holes**
van Breugel, W., Fragile, C., **Croft, S.**, de Vries, W., Anninos, P., Murray, S. 2004, IAU Symposium Series
<http://arxiv.org/abs/astro-ph/0406668>
5. **Radio galaxy proto-clusters**
van Breugel, W., Venemans, B., Kurk, J., Rottgering, H., Miley, G., **Croft, S.**, Stanford, A. 2004, IAU Symposium Series
4. **A large-area search for radio-loud quasars within the epoch of reionization**
Jarvis, M. J., Rawlings, S., Barrio, F.E., Hill, G. J., Bauer, A., **Croft, S.** 2004 in the proceedings of the conference "Multiwavelength AGN Surveys", Cozumel, Mexico, 8-13 December 2003, eds. R. Mujica, R. Maiolino
<http://arxiv.org/abs/astro-ph/0404157>
3. **A search for radio-loud quasars within the epoch of reionization**
Jarvis, M. J., Rawlings, S., Barrio, F.E., Hill, G. J., Bauer, A., **Croft, S.** 2004 in ASP Conference Series 311, "AGN Physics with the Sloan Digital Sky Survey", Princeton, 27-30 July 2003, eds. G. T. Richards, P. B. Hall
<http://arxiv.org/abs/astro-ph/0309379>
2. **High-redshift clusters from NVSS: The TexOx Cluster (TOC) Survey**
Croft, S., Rawlings, S., Hill, G. J. 2003 New Astronomy Reviews, 447, 333
<http://arxiv.org/abs/astro-ph/0301337>
1. **The TexOx Survey of Radio-Selected Galaxy Clusters**
Croft, S., Rawlings, S., Hill, G. J., Gay, P. L., Tufts, J. R. 2002 in ASP Conference Series 268, "Tracing Cosmic Evolution with Galaxy Clusters", Sesto, 3-6 July 2001, eds. S. Borgani, M. Mezzetti, R. Valdarnini
<http://arxiv.org/abs/astro-ph/0110119>

RESEARCH TALKS

Invited talks and colloquia:

Invited summary talk at "SKA 2016: Science for the SKA generation", Goa, India, November 2016
 Invited talk at "Boutiques and Experiments", Caltech, July 2016
 Featured speaker at Malone Heads of School conference, Stanford, June 2016
 Invited talk at CSIRO, Sydney, Australia, February 2015
 Invited talk at Monash University, Melbourne, Australia, February 2015
 Invited talk at Swinburne University, Melbourne, Australia, February 2015
 Invited talk at "Multi-wavelength Emission from Accreting Black Holes", Sydney, Australia, February 2015
 Invited talk at "Advancing Astrophysics with the Square Kilometer Array", Giardini Naxos, Italy, June 2014
 Invited talk at "Exploring the Transient Radio Sky", Sydney, Australia, December 2013
 Colloquium at the SETI Institute, Mountain View, CA, April 2013
 Invited talk at University of Wisconsin-Milwaukee, November 2012
 Invited talk at University of Wisconsin-Madison, November 2012
 Invited talk at Sydney University, Australia, November 2011
 Colloquium at Liverpool John Moores University, UK, October 2010
 Colloquium at Lawrence Livermore National Laboratory, CA, USA, November 2008
 Invited talk at UC Santa Cruz, CA, USA, October 2007

Contributed talks:

Radio Galaxies: Past, Present, and Future (Netherlands); AAS Denver; Obscured AGN Across Cosmic Time (Germany); The First Science with LOFAR Surveys (Netherlands); LOFAR and the Transient Radio Sky (Netherlands); AAS Long Beach; UC Berkeley Graduate Student / Postdoc Seminar; The Eventful Universe (Tucson, AZ); A New Golden Age for Radio Astronomy (Netherlands); ASKAP Survey Science Meeting (Australia); AAS Austin 2012; UC Berkeley Radio Astronomy Lab seminar; Radio Astronomy in the LSST Era (Charlottesville, VA); Locating Astrophysical Transients (Netherlands); Transformational Science with the SKA (South Africa); Oxford University (UK); Science at Low Frequencies II (Albuquerque, NM)

Poster presentations:

NAM Cambridge (UK); NAM Bristol (UK); AAS DC 2002; Tracing Cosmic Evolution with Galaxy Clusters (Italy); XIII Rencontres de Blois (France), AAS San Diego; Infrared Diagnostics of Galaxy Evolution (Pasadena, CA); AAS Seattle; VLT Summer School (Poland); AAS Austin; Deep Surveys of the Radio Universe with SKA Pathfinders (Australia); AAS Pasadena; AAS DC 2010; AAS Seattle 2011; New Horizons in Time Domain Astronomy (UK); AGN Variability and Tidal Disruption Events (Spain)