

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, Member of the International Academy of Astronautics Permanent Committee on SETI

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

2016 to date **Associate Project Astronomer, University of California, Berkeley / Scientist VI, Eureka Scientific**
Project Scientist for the Breakthrough Listen project on the Green Bank Telescope. Leading the outreach, education, undergraduate internship (PI: NSF REU), industry and community engagement, and public data programs, in addition to proposal writing and scientific data analysis, for UC Berkeley SETI Research Center and for Breakthrough Listen.

2021 to date **Adjunct Senior Scientist, SETI Institute (additional affiliation to UCB)**
Science with the Allen Telescope Array. Community Partnerships for SETI.

2012 – 2013 **Researcher, University of Wisconsin, Milwaukee (with David Kaplan) - based at UCB**
Transient searches with the Very Large Array and the Murchison Widefield Array.

2011 – 2016 **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. Co-PI on \$232k NSF grant to study supermassive black hole growth and transient radio sources with the Murchison Widefield Array, with David Kaplan, UW-Milwaukee (PI).

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 AND RESEARCH SUPERVISION

- 2015 to date **Director, undergraduate research program**
Creation of, and strategy and management for, the undergraduate research program at Berkeley SETI Research Center (now an NSF REU Site). Coordinating the activities of 8 – 10 undergraduates at a time, working on a range of research projects. Direct mentoring of 1 – 2 undergrad researchers at a time.
- 2015 – 2017 **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.
- 2012 – 2015 **Instructor / Team Co-Lead**
Co-lead, \$670k “ASPIRE” E/PO grant; creating and delivering regular afterschool and summer workshops for high school students (in addition to teacher professional development) combining art and science, focusing on underrepresented minority interest in astronomy (<http://twitter.com/nasanovas>)
- 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

- 2019 Design team and staffing of SETI booth at the International Astronautical Congress
- 2019 Design team and staffing of SETI booth at the Royal Society Summer Exhibition
- 2018 Helped design and lead Air Products UK “Space Camp” for 60 high school students
- 2017 Invited keynote address to 20 high school heads, Northern EdTech Conference, Leeds University, UK
- 2017 Invited panelist, Corpus Christi College, Oxford 500th Anniversary Science Symposium
- 2016 Invited keynote address to 25 high school heads, Malone Scholars conference, Stanford University
- 2015 to date Outreach, education, and public data lead, Berkeley SETI Research Center
(<http://facebook.com/BerkeleySETI>) and Breakthrough Listen (<http://seti.berkeley.edu/listen>)
- 2015 Designed 11 new lessons for the Big History Project (http://bit.do/bhp_astro)
- 2015 Volunteered on planning team for “SUCCESS” summer REU program
- 2013 to date Science@Cal Advisory Board
- 2010 to date 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, in addition to in-person teacher professional development (http://bit.do/place_for_life)
- 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

2020 NSF REU, \$323,947, PI
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:

2020 NSF Review Panelist
2020 Proposer and organizer of special session on SETI at 235th American Astronomical Society meeting
2019 to date Project Scientist for Breakthrough Listen on the Green Bank Telescope
2019 Organizer and chair of GNU Radio Hackathon for 35 participants at Hat Creek Radio Observatory
2019, 2020 Visiting Lecturer, International Space University (Strasbourg, France)
2018, 2020 Congressional visits with Berkeley SETI Research Center
2018 Co-chair, “Towards an All-Sky Radio SETI Telescope” conference, University of Manchester
2018 to date Project Scientist for Breakthrough Listen on SKA-LOW and precursors
2018 to date Member, SKA Cradle of Life Science Working Group
2017 to date Member, International Academy of Astronautics Permanent Committee on SETI
2017 to date Member, ngVLA Cradle of Life Science Working Group
2016 NASA Review Panelist
2014 to date Associate Member, NANOGrav collaboration
2014 to date Associate Member, Murchison Widefield Array collaboration
2014 to date Advisor, Square Kilometer Array Transient Science Working Group
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
2008 - 2019 Seminar organizer, UC Berkeley Radio Astronomy Laboratory

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

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 research 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, GMRT, and MWA proposals. Observer and co-I on GBT (> 400 hours), Parkes, 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, VLA and Kepler proposals.

REFEREED PUBLICATIONS

65. **One of Everything: The Breakthrough Listen Exotica Catalog**
Lacki, B. C., Brzycki, B., **Croft, S.**, Czech, D., DeBoer, D., DeMarines, J., Gajjar, V., Isaacson, H., Lebofsky, M., MacMahon, D. H. E., Price, D. C., Sheikh, S. Z., Siemion, A. P. V., Drew, J., Worden, S. P. 2020, ApJS, submitted.
<https://arxiv.org/abs/2006.11304>
64. **Space Telescope and Optical Reverberation Mapping Project. XII. Broad-line Region Modeling of NGC 5548**
Williams, P. R., and 157 co-authors including **Croft, S.** 2020, ApJ, 902, 74.
<https://arxiv.org/abs/2010.00594>
63. **Narrow-Band Signal Localization for SETI on Noisy Synthetic Spectrogram Data**
Brzycki, B., Siemion, A. P. V., **Croft, S.**, Czech, D., DeBoer, D., DeMarines, J., Drew, J., Gajjar, V., Isaacson, H., Lacki, B., Lebofsky, M., MacMahon, D. H. E., de Pater, I., Price, D. C., Worden, S. P. 2020, PASP, 132, 114501.
<https://arxiv.org/abs/2006.04362>
62. **Opportunities to Search for Extra-Terrestrial Intelligence with the Five-Hundred-meter Aperture Spherical radio Telescope**
Li, D., Gajjar, V., Wang, P., Siemion, A., Zhang, Z., Zhang, H., Yue, Y., Zhu, Y., Jin, C., Li, S., Berger, S., Brzycki, B., Cobb, J., **Croft, S.**, Czech, D., DeBoer, D., DeMarines, J., Drew, J., Enriquez, J. E., Gizani, N., Korpela, E. J., Isaacson, H., Lebofsky, M., Lacki, B., MacMahon, D. H. E., Nanez, M., Niu, C., Pei, X., Price, D. C., Werthimer, D., Worden, P., Zhang, Y. G., Zhang, T.-J., FAST collaboration, 2020, RA&A, 20, 78.
<https://arxiv.org/abs/2003.09639>
61. **Space Telescope and Optical Reverberation Mapping Project. IX. Velocity-Delay Maps for Broad Emission Lines in NGC 5548**
Horne, K., and 157 co-authors including **Croft, S.** 2020, ApJ, submitted.
<https://arxiv.org/abs/2003.01448>
60. **Science with the Murchison Widefield Array: Phase I Results and Phase II Opportunities**
Beardsley, A. P., Johnston-Hollitt, M., Trott, C. M., Pober, J. C., Morgan, J., Oberoi, D., Kaplan, D. L., Lynch, C. R., Anderson, G. E., McCauley, P. I., **Croft, S.**, James, C. W., Wong, O. I., Tremblay, C. D., Norris, R. P., Cairns, I. H., Lonsdale, C. J., Hancock, P. J., Gaensler, B. M., Bhat, N. D. R., Li, W., Hurley-Walker, N., Callingham, J. R., Seymour, N., Yoshiura, S., Joseph, R. C., Takahashi, K., Sokolowski, M., Miller-Jones, J. C. A., Chauhan, J. V., Bojčić, I., Filipović, M. D., Leahy, D., Su, H., Tian, W. W., McSweeney, S. J., Meyers, B. W., Kitaef, S., Vernstrom, T., Gürkan, G., Heald, G., Xue, M., Riseley, C. J., Duchesne, S. W., Bowman, J. D., Jacobs, D. C., Crosse, B., Emrich, D., Franzen, T. M. O., Horsley, L., Kenney, D., Morales, M. F., Pallot, D., Steele, K., Tingay, S. J., Walker, M., Wayth, R. B., Williams, A., Wu, C. 2019, PASA, in press.
<https://arxiv.org/abs/1910.02895>

59. **The Breakthrough Listen Search for Intelligent Life: Observations of 1327 Nearby Stars over 1.1–3.45 GHz**
Price, D. C., Enriquez, J. E., Brzycki, B., **Croft, S.**, Czech, D., DeBoer, D., DeMarines, J., Foster, G., Gajjar, V., Gizani, N., Hellbourg, G., Isaacson, H., Lacki, B., Lebofsky, M., MacMahon, D. H. E., de Pater, I., Siemion, A. P. V., Werthimer, D., Green, J. A., Kaczmarek, J. F., Maddalena, R. J., Mader, S., Drew, J., Worden, S. P. 2020, AJ, 159, 86.
<https://arxiv.org/abs/1906.07750>
58. **The Breakthrough Listen Search for Intelligent Life: Public Data, Formats, Reduction and Archiving**
Lebofsky, M., **Croft, S.**, Siemion, A. P. V., Price, D. C. P., Enriquez, J. E., Isaacson, H., MacMahon, D. H. E., Anderson, D., Brzycki, B., Cobb, J., Czech, D., DeBoer, D., DeMarines, J., Drew, J., Foster, G., Gajjar, V., Gizani, N., Hellbourg, G., Korpela, E. J., Lacki, B., Sheikh, S., Werthimer, D., Worden, P., Yu, A., Zhang, Y. G. 2019, PASP, 131, 4505.
<https://arxiv.org/abs/1906.07391>
57. **Breakthrough Listen Follow-up of the Reported Transient Signal Observed at the Arecibo Telescope in the Direction of Ross 128**
Enriquez, J. E., Siemion, A., Dana, R., **Croft, S.**, Méndez, A., Xu, A., DeBoer, D., Gajjar, V., Hellbourg, G., Isaacson, H., Lebofsky, M., MacMahon, D. H. E., Price, D. C., Werthimer, D., Zuluaga, J. 2019, International Journal of Astrobiology, 18, 33.
<http://bit.ly/2UaN7Z3>
56. **Space Telescope and Optical Reverberation Mapping Project. VIII. Time Variability of Emission and Absorption in NGC 5548 Based on Modeling the Ultraviolet Spectrum**
Kriss, G., and 166 co-authors including **Croft, S.** 2019, ApJ, 881, 153.
<https://arxiv.org/abs/1907.03874>
55. **A Fast Radio Burst with Frequency-Dependent Polarization Detected During Breakthrough Listen Observations**
Price, D. C., Foster, G., Geyer, M., van Straten, W., Gajjar, V., Hellbourg, G., Karastergiou, A., Keane, E. F., Siemion, A. P. V., Arcavi, I., Bhat, R., Caleb, M., Chang, S-W., **Croft, S.**, DeBoer, D., de Pater, I., Drew, J., Enriquez, J. E., Farah, W., Gizani, N., Green, J. A., Isaacson, H., Hickish, J., Jameson, A., Lebofsky, M., MacMahon, D. H. E., Möller, A., Onken, C. A., Petroff, E., Werthimer, D., Wolf, C., Worden, S. P., Zhang, Y. G. 2019, MNRAS, 486, 3636.
<https://arxiv.org/abs/1901.07412>
54. **The Breakthrough Listen Search for Intelligent Life: Searching Boyajian’s Star for Laser Line Emission**
Lipman, D., Isaacson, H., Siemion, A. P. V., Lebofsky, M., Price, D. C., MacMahon, D., **Croft, S.**, DeBoer, D., Hickish, J., Werthimer, D., Hellbourg, G., Enriquez, J. E., Gizani, N. 2019, PASP, 131, 034202.
<https://arxiv.org/abs/1812.10161>
53. **Self-supervised Anomaly Detection for Narrowband SETI**
Zhang, Y. G., Won, K. H., Son, S. W., Siemion, A., **Croft, S.** 2019, IEEE GlobalSIP 2018
<https://arxiv.org/abs/1901.04636>
52. **The Murchison Widefield Array Transients Survey (MWATS). A Search for low frequency variability in a bright Southern hemisphere sample**
Bell, M., Murphy, T., Hancock, P. J., Callingham, J. R., Johnston, S., Kaplan, D. L., Hunstead, R. W., Sadler, E. M., **Croft, S.**, White, S. V., Hurley-Walker, N., Chhetri, R., Morgan, J. S., Edwards, P. G., Rowlinson, A., 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. J., Wayth, R. B., Webster, R. L., Williams, A., Williams, C. L. 2019, MNRAS, 482, 2484.
<https://arxiv.org/abs/1810.10152>
51. **Science with an ngVLA: SETI Searches for Evidence of Intelligent Life in the Galaxy**
Croft, S., Siemion, A. P. V., Cordes, J. M., Morrison, I. S., Paragi, Z., Tarter, J., Wright, J. 2018, ASP Conf. Series Vol. 517, “Science with a Next-Generation VLA”, 257.
<https://arxiv.org/abs/1810.06568>

50. **Highest-frequency detection of FRB 121102 at 4-8 GHz using the Breakthrough Listen Digital Backend at the Green Bank Telescope**
Gajjar, V., Siemion, A. P. V., Price, D. C., Law, C. J., Hessels, J. W. T., Chatterjee, S., Archibald, A. M. Bower, G. C., Brinkman, C., Burke-Spolaor, S., Cordes, J. M., **Croft, S.**, Enriquez, J. E., Foster, G., Gizani, N., Hellbourg, G., Isaacson, H., Kaspi, V. M., Lazio, T. J. W., Lebofsky, M., Lynch, R. S., MacMahon, D., McLaughlin, M. A., Ransom, S. M., Scholz, P., Seymour, A., Spitler, L. G., Tendulkar, S. P., Werthimer, D., Zhang, Y. G. 2018, ApJ, 863, 2.
<https://arxiv.org/abs/1804.04101>
49. **The Breakthrough Listen Search for Intelligent Life: Wide-bandwidth Digital Instrumentation for the CSIRO Parkes 64-m Telescope**
Price, D. C., MacMahon, D. H. E., Lebofsky, M., **Croft, S.**, DeBoer, D., Enriquez, J. E., Foster, G. S., Gajjar, V., Hellbourg, G., Isaacson, H., Siemion, A. P. V., Werthimer, D., Green, J. A., Amy, S., Ball, L., Bock, D. C.-J., Craig, D., Edwards, P. G., Jameson, A., Mader, S., Preisig, B., Smith, M., Reynolds, J., Sarkissian, J. 2018, PASA, 35, 41.
<https://arxiv.org/abs/1804.04571>
48. **A Serendipitous MWA Search for Narrow-band Signals from 'Oumuamua**
Tingay, S. J., Tremblay, C. D., **Croft, S.** 2018, ApJ, 857, 11.
<https://arxiv.org/abs/1802.09276>
47. **An search for ExtraTerrestrial Intelligence (SETI) toward the Galactic Anticenter with the Murchison Widefield Array**
Tingay, S. J., Kaplan, D. L., Lenc, E., **Croft, S.**, McKinley, B., Beardsley, A., Crosse, B., Emrich, D., Franzen, T. M. O., Gaensler, B. M., Horsley, L., Johnston-Hollitt, M., Kenney, D., Morales, M. F., Pallot, D., Steele, K., Trott, C. M., Walker, M., Wayth, R. B., Williams, A., Wu, C. 2018, ApJ, 856, 31.
<https://arxiv.org/abs/1803.00524>
46. **The Breakthrough Listen Search for Intelligent Life: 1.1 – 1.9 GHz observations of 692 Nearby Stars**
Enriquez, J. E., Siemion, A., Foster, G., Gajjar, V., Hellbourg G., Hickish, J., Isaacson, H., Price, D. C., **Croft, S.**, DeBoer, D., Lebofsky, M., MacMahon, D., Werthimer, D. 2017, ApJ, 849, 104.
<https://arxiv.org/abs/1709.03491>
45. **The Breakthrough Listen Search for Intelligent Life: A Wideband Data Recorder System for the Robert C. Byrd Green Bank Telescope**
MacMahon, D. H. E., Price, D. C., Lebofsky, M., Siemion, A. P. V., **Croft, S.**, DeBoer, D., Enriquez, J. E., Gajjar, V., Hellbourg, G., Isaacson, H., Werthimer, D., Abdurashizova, Z., Bloss, M., Creager, R., Ford, J., Lynch, R. S., Maddalena, R. J., McCullough, R., Ray, J., Whitehead, M., Woody, D. 2018, PASP, 130, 044502.
<https://arxiv.org/abs/1707.06024>
44. **Numerical Simulations of a Jet-Cloud Collision and Starburst: Application to Minkowski's Object**
Fragile, P. C., Anninos, P., **Croft, S.**, Lacy, M., Witry, J. W. L. 2017, ApJ, 850, 171.
<https://arxiv.org/abs/1701.00024>
43. **The Local Nanohertz Gravitational-Wave Landscape from Supermassive Black Hole Binaries**
Mingarelli, C. M. F., Lazio, T. J. W., Sesana, A., Greene, J. E., Ellis, J. A., Ma, C.-P., **Croft, S.**, Burke-Spolaor, S., Taylor, S. R. 2017, Nature Astronomy, 1, 886.
<https://arxiv.org/abs/1708.03491>
42. **Space Telescope and Optical Reverberation Mapping Project. VII. Understanding the UV Anomaly in NGC 5548 with X-ray Spectroscopy**
Mathur, S., and 149 co-authors including **Croft, S.** 2017, ApJ, 846, 55.
<https://arxiv.org/abs/1704.06345>
41. **ALMA observations of the interaction of a radio jet with molecular gas in Minkowski's Object**
Lacy, M., **Croft, S.**, Fragile, C., Wood, S., Nyland, K. 2017, ApJ, 838, 146.
<https://arxiv.org/abs/1703.03006>
40. **Numerical Simulations of a Jet-Cloud Collision and Starburst: Application to Minkowski's Object**
Fragile, C. P., Anninos, P., **Croft, S.**, Lacy, M., Witry, J. W. L., 2017, ApJ, 850, 171.
<http://arxiv.org/abs/1701.00024>

39. **The Breakthrough Listen Search for Intelligent Life: Target Selection of Nearby Stars and Galaxies**
Isaacson, H., Siemion, A., Marcy, G., Lebofsky, M., Price, D., MacMahon, D., **Croft, S.**, DeBoer, D., Hickish, J., Werthimer, D., Hellbourg, G., Enriquez, E. 2017, PASP, 129, 054501.
<http://arxiv.org/abs/1701.06227>
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.** 2017, ApJ, 837, 131.
<http://arxiv.org/abs/1702.01177>
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. 2017, PASA, 34, 20.
<http://arxiv.org/abs/1704.00027>
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. 2017, MNRAS, 466, 1944.
<http://arxiv.org/abs/1611.08354>
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, 833, 11.
<http://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, 33, 50.
<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.
<http://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>
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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.
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21. **The Allen Telescope Array Twenty-centimeter Survey - A 700-Square-Degree, Multi-Epoch Radio Dataset - II: Individual Epoch Transient Statistics**
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19. **Primary Beam Shape Calibration from Mosaicked Observations**
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17. **The Multi-Wavelength Extreme Starburst Sample of Luminous Galaxies – I: Sample Characteristics**
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15. **A Galaxy Populations Study of a Radio-Selected Protocluster at $z \sim 3.1$**
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7. **Imaging and Spectroscopy of a sample of Ultra Steep Spectrum Radio Sources**
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5. **The 6C** sample of steep-spectrum radio sources: I – Radio data, near-infrared imaging and optical spectroscopy**
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4. **Minkowski's Object: A Starburst Triggered by a Radio Jet, Revisited**
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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.
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1. **A sample of 6C radio sources designed to find objects at redshift > 4 : III - imaging and the radio galaxy K-z relation**
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CONFERENCE PROCEEDINGS, WHITE PAPERS, & OTHER PUBLICATIONS

27. **Breakthrough Listen Search for Technosignatures toward the Kepler-160 System**
Perez, K., Brzycki, B., Gajjar, V., Isaacson, H., Siemion, A., **Croft, S.**, DeBoer, D., Lebofsky, M., MacMahon, D. H. E., Price, D. C., Sheikh, S., Drew, J., Worden, S. P. 2020, RNAAS, 4, 97.
<https://doi.org/10.3847/2515-5172/ab9f36>
26. **4 - 11 GHz detection of Swift J1818.0-1607 with the Breakthrough Listen instrument at the Robert C. Byrd Green Bank Telescope**
Gajjar, V, Perez, K., Siemion, A., MacMahon, D., Lebofsky, M., **Croft, S.**, Price, D., 2020, ATel 13575.
<http://www.astronomerstelegam.org/?read=13575>

25. **Breakthrough Listen Follow-up of the Random Transiter (EPIC 249706694 / HD 139139) with the Green Bank Telescope**
Brzycki, B., Siemion, A., **Croft, S.**, Czech, D., DeBoer, D., DeMarines, J., Drew, J., Enriquez, J. E., Gajjar, V., Gizani, N., Isaacson, H., Lacki, B., Lebofsky, M., MacMahon, D. H. E., de Pater, I., Price, D. C. P., Sheikh, S., Webb, C., Worden, S. P. 2019, RNAAS, 3, 147.
<https://doi.org/10.3847/2515-5172/ab4bd6>
24. **The Breakthrough Listen Search for Extraterrestrial Intelligence**
Gajjar, V., Siemion, A., **Croft, S.**, Brzycki, B., Burgay, M., Carozzi, T., Concu, R., Czech, D., DeBoer, D., DeMarines, J., Drew, J., Enriquez, J. E., Fawcett, J., Gallagher, P., Garret, M., Gizani, N., Hellbourg, G., Holder, J., Isaacson, H., Kudale, S., Lacki, B., Lebofsky, M., Li, D., MacMahon, D. H. E., McCauley, J., Melis, A., Molinari, E., Murphy, P., Perrodin, D., Pilia, M., Price, D. C., Webb, C., Werthimer, D., Williams, D., Worden, P., Zarka, P., Zhang, Y. G. 2019, Astro2020 Decadal Survey APC white paper.
<https://arxiv.org/abs/1907.05519>
23. **Commensal, Multi-user Observations with an Ethernet-based Jansky Very Large Array**
Hickish, J., Beasley, T., Bower, G., Burke-Spolaor, S., **Croft, S.**, DeBoer, D., Demorest, P., Diamond, B., Gajjar, V., Law, C., Lazio, J., Manley, J., Paragi, Z., Ransom, S., Siemion, A., 2019, Astro2020 Decadal Survey APC white paper.
<https://arxiv.org/abs/1907.05263>
22. **The Promise of Data Science for the Technosignatures Field**
Berea, A., **Croft, S.**, Angerhausen, D. 2019, Astro2020 Decadal Survey Science white paper.
<https://arxiv.org/abs/1903.08381>
22. **The Radio Search for Technosignatures in the Decade 2020-2030**
Margot, J.-L., **Croft, S.**, Lazio, T. J. W., Tarter, J., Korpela, E. J. 2019, Astro2020 Decadal Survey Science white paper.
<https://arxiv.org/abs/1903.05544>
21. **Breakthrough Listen Observations of Asteroid (514107) 2015 BZ₅₀₉ with the Parkes Radio Telescope**
Price, D. C. P., **Croft, S.**, DeBoer, D., Drew, J., Enriquez, J. E., Foster, G., Gajjar, V., Gizani, N., Hellbourg, G., Isaacson, H., Lebofsky, M., MacMahon, D. H. E., de Pater, I., Siemion, A., Worden, S. P., Zhang, Y. G. 2019, RNAAS, 3, 19.
<https://doi.org/10.3847/2515-5172/ab010b>
20. **Towards an all-sky radio telescope for SETI**
Croft, S. 2019, invited review article, Astronomy and Geophysics Magazine, Issue 60/2.
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19. **Detection of a new fast radio burst during Breakthrough Listen observations**
Price, D. C. P., Gajjar, V., Dhar, A., Keane, E. F., Jameson, A., Siemion, A. P. V., MacMahon, D. H. E., **Croft, S.**, Hellbourg, G., Isaacson, H., Enriquez, J. E., Lebofsky, M., DeBoer, D., Werthimer, D., and SUPERB Collaboration 2018, ATel 11376.
<http://www.astronomerstelegam.org/?read=11376>
18. **No Bursts Detected from FRB121102 in Two 5 hr Observing Campaigns with the Robert C. Byrd Green Bank Telescope**
Price, D. C., Gajjar, V., Rosenthal, L., Hallinan, G., **Croft, S.**, DeBoer, D., Hellbourg, G., Isaacson, H., Lebofsky, M., Lynch, R., MacMahon, D. H. E., Men, Y., Xu, Y., Liu, Z., Kejia, L., Siemion, A. 2018, RNAAS, 2, 30.
<https://arxiv.org/abs/1802.04446>
17. **Breakthrough Listen Observations of 1I/ Oumuamua with the GBT**
Enriquez, J. E., Siemion, A., Lazio, T. J. W., Lebofsky, M., MacMahon, D. H. E., Park, R. S., **Croft, S.**, DeBoer, D., Gizani, N., Gajjar, V., Hellbourg, G., Isaacson, H., Price, D. C. P. 2018, RNAAS, 2, 9.
<https://arxiv.org/abs/1801.02814>
16. **FRB 121102: Detection at 4 - 8 GHz band with Breakthrough Listen backend at Green Bank**
Gajjar, V., Siemion, A. P. V., MacMahon, D. H. E., **Croft, S.**, Hellbourg, G., Isaacson, H., Enriquez, J. E., Price, D. C., Lebofsky, M., DeBoer, D., Werthimer, D., Hickish, J., Brinkman, C., Chatterjee, S., Ransom, S. 2017, ATel 10675.
<http://www.astronomerstelegam.org/?read=10675>

15. **A Drop in Optical Flux from Boyajian's Star**
 Boyajian, T., **Croft, S.**, Wright, J., Siemion, A., Muterspaugh, M., Siegel, M., Bruce, G., Wright, S., Maire, J., Duenas, A., Hultgren, C., Ramos, J. 2017, ATel 10405.
<http://www.astronomersteleggram.org/?read=10405>
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.**, Raftery, 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., Röttgering, 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:

Conference Summary, "Towards an All-Sky Radio SETI Telescope", Manchester, UK, October 2018
Keynote, GNU Radio Convention, Henderson, NV, September 2018
Colloquium at Tel Aviv University, Israel, May 2018
Colloquium at Carnegie Institute, Washington, D. C., September 2017
Colloquium at Manchester University, UK, May 2017
Keynote, "Northern EdTech Conference", Leeds, UK, May 2017
Colloquium at Louisiana State University, Baton Rouge, LA, March 2017
Invited session summary talk at "SKA 2016: Science for the SKA generation", Goa, India, November 2016
Invited talk at "Boutiques and Experiments", Caltech, July 2016
Keynote, 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:

American Astronomical Society, Virtual, January 2021
GNU Radio Convention, Virtual, September 2020
International Astronautical Congress, Washington, DC, October 2019
GNU Radio Convention, Huntsville, AL, September 2019
NASA Technosignatures workshop, Houston, TX, September 2018
European Week of Astronomy and Space Science, Liverpool, UK, April 2018
UK SETI Research Network meeting, Oxford, UK, March 2018
American Astronomical Society, Washington, DC, January 2018
European Week of Astronomy and Space Science, Prague, Czech Republic, June 2017
The Broad Impact of Low Frequency Observing, Bologna, Italy, June 2017
Science at Low Frequencies III, Pasadena, CA, December 2016
Science at Low Frequencies II, Albuquerque, NM, December 2015
Brasenose Radio Transients Meeting, Oxford University, UK, September 2015
Transformational Science with the SKA, South Africa, February 2014
Locating Astrophysical Transients, Netherlands, May 2013
Radio Astronomy in the LSST Era, Charlottesville, VA, May 2013
American Astronomical Society, Austin, TX, January 2012
ASKAP Survey Science Meeting, Australia, October 2011
A New Golden Age for Radio Astronomy, Netherlands, June 2010
The Eventful Universe, Tucson, AZ, March 2010
American Astronomical Society, Long Beach, CA, January 2009

LOFAR and the Transient Radio Sky, Netherlands, December 2008
The First Science with LOFAR Surveys, Netherlands, December 2008
Obscured AGN Across Cosmic Time, Germany, June 2007
American Astronomical Society, Denver, CO, May 2004
Radio Galaxies: Past, Present, and Future, Netherlands, November 2002

Poster presentations:

Tidal Disruption Events and AGN Outbursts, Spain, June 2012
New Horizons in Time Domain Astronomy, UK, September 2011
American Astronomical Society, Seattle, WA, January 2011
American Astronomical Society, Washington, DC, January 2010
American Astronomical Society, Pasadena, CA, June 2009
Deep Surveys of the Radio Universe with SKA Pathfinders, Australia, March 2008
VLT Summer School, Poland, September 2007
American Astronomical Society, Seattle, WA, January 2007
Infrared Diagnostics of Galaxy Evolution, Pasadena, CA, November 2005
American Astronomical Society, San Diego, CA, January 2005
National Astronomy Meeting, Bristol, UK, 2002
American Astronomical Society, Washington, DC January 2002
Tracing Cosmic Evolution with Galaxy Clusters, Italy, July 2001
XIII Rencontres de Blois, France, June 2001
National Astronomy Meeting, Cambridge, UK, 2001