

Dr. Steve Croft

UC Berkeley, 501 Campbell Hall #3411, Berkeley, CA 94720, USA

PERSONAL DETAILS

Citizenships: USA and UK dual citizen

Professional Memberships: Fellow of the Royal Astronomical Society, Corresponding Member of the International Academy of Astronautics, Member of the American Astronomical Society, Member of the International Astronomical Union

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 Calday 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
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.

2023 to date Senior Research Fellow, University of Oxford (additional affiliation to UCB)
Part time position in the Astrophysics sub-department at the University of Oxford, directing student research projects, and coordinating activities for the Breakthrough Listen project in the UK and globally.

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

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**
PI 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.
- 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 of Student Research**
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 around 15 undergraduates at a time (over 180 students to date), working on a range of research projects. Direct mentoring of 1 – 3 undergrad researchers at a time. Supervision of post-bacc and graduate students.
- 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://x.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

- 2025 Guest speaker, "Astronomy on Tap" Oakland
- 2025 Invited panelist, "Space Week", Chabot Space and Science Center, Oakland
- 2025 Invited speaker, "Profs and Pints" Oakland
- 2025 Guest speaker, Swan Hellenic Cruises
- 2025 Invited speaker, Mount Diablo Astronomical Society
- 2025 Invited speaker, Oxford University Department of Continuing Education Astronomy Weekend
- 2023 Special guest speaker, Lindblad / National Geographic South Pacific Expedition
- 2023 Invited speaker, "Profs and Pints" Berkeley
- 2022 Invited speaker, Silicon Valley Astronomy Lecture Series
- 2023 Invited speaker, American Association of Physics Teachers conference
- 2022 - 2023 Science at Cal Advisory Council
- 2021 Guest speaker, Lindblad / National Geographic Antarctica Expedition
- 2019, 2021 Design team and staffing of SETI booth at the International Astronautical Congress

2020 Invited Panelist, "First Contact", organized by NASA astronaut Mae Jemison

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>). Producer of YouTube videos for BSRC and BL with over 500,000 views.

2015 Designed 11 new lessons for the Big History Project (<https://www.oerproject.com/Big-History>)

2015 Planning team for "SUCCESS" summer REU program

2013 – 2017 Science@Cal Advisory Board

2010 – 2020 Created and led 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 (<https://evolution.berkeley.edu/a-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

SELECTED MEDIA INTERVIEWS AND ARTICLES

2024 "The giant telescope waiting to be contacted by aliens", The Times of London
<https://www.thetimes.com/world/us-world/article/a-quiet-place-meet-the-astronomers-waiting-for-contact-by-aliens-v7mncn2cs>

2024 "Inside the 'golden age' of alien hunting at the Green Bank Telescope", Agence France Presse
<https://phys.org/news/2024-09-golden-age-alien-green-bank.html>

2024 "'Amazing' new technology set to transform the search for alien life", The Guardian
<https://www.theguardian.com/science/article/2024/jul/13/amazing-new-technology-set-to-transform-the-search-for-alien-life>

2024 "It only takes one to be real and it changes humanity for ever", The Observer
<https://www.theguardian.com/science/2024/jan/14/what-happens-if-we-have-been-visited-by-aliens-lied-to-ufos-uaps-grusch-congress>

2024 "The mathematically perfect exoplanet system - a great place to search for alien tech", space.com
<https://www.space.com/alien-technosignatures-exoplanet-mathematically-perfect-orbits>

2023 "Ideas for finding ET are getting more inventive", The Economist
<https://www.economist.com/science-and-technology/2023/01/18/ideas-for-finding-et-are-getting-more-inventive>

2023 **Author** of "SETI deploys new instruments in search for alien intelligence", Supercluster
<https://www.supercluster.com/editorial/seti-deploys-new-instruments-in-search-for-alien-intelligence>

2023 "Could AI find alien life faster than humans?"
<https://www.space.com/could-ai-find-alien-life-faster-than-humans>

2022 "Astrophysicists may be on the brink of a massive alien breakthrough", Inverse
<https://www.inverse.com/science/technosignatures-alien-life>

2021 "Let's talk about ... SETI", Contact
https://issuu.com/ska_telescope/docs/contact_7_-_ska_magazine__pages_/s/11881614

2021 "NASA is Quietly Funding a Hunt for Alien Megastructures", Vice
<https://www.vice.com/en/article/pkbq7z/nasa-is-quietly-funding-a-hunt-for-alien-megastructures>

2018 "Space's Deepest Secrets", Science Channel, Season 5 Episode 2
https://www.imdb.com/title/tt9221046/?ref_=ttep_ep2

2016 "SETI Tunes into Tabby's Star with Radio Telescopes", Astronomy Magazine
<https://www.astronomy.com/science/seti-tunes-into-tabbys-star-with-radio-telescopes/>

GRANTS

2024 Amateur Radio Digital Communications, \$26,040, PI
2023 NSF REU Site, \$447,817, PI
2021 Breakthrough Listen Kaggle Data Analysis challenge, \$15,000, PI
2021 NASA XRP, \$593,536, co-I
2020 NSF REU Site, \$323,947, PI
2016 NASA HST GO, \$56,000, PI
2014 NSF AAG, \$232,000, co-PI
2012 NASA Education Supplemental, \$129,867, originator and co-lead (admin PI: A. Westphal)
2012 NASA EPOESS, \$708,992, originator and co-lead (admin PI: M. Fillingim)
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:

2025 Scientific Organizing Committee, Breakthrough Discuss, Oxford, UK, April 2025
2025 Organizer and chair of GNU Radio Hackathon for 20 participants at Hat Creek Radio Observatory
2024 Appointed to NASA Technosignature Study Analysis Group Steering Committee
2024 Co-chair, Symposium A4, International Astronautical Congress, Milan, Italy, October 2024
2024 to date Editor, Acta Astronautica (official journal of the International Academy of Astronautics)
2024 Elected as Corresponding Member of the International Academy of Astronautics
2024 to date Member, LSST Solar System Science Collaboration
2024 Scientific Organizing Committee, Breakthrough Discuss, Oxford, UK, July 2024
2024 NASA Review Panelist
2023 Co-chair, Symposium A4, International Astronautical Congress, Baku, Azerbaijan, October 2023
2022 PhD Examiner, University of Technology Sydney
2022 Co-chair, Symposium A4, International Astronautical Congress, Paris, France, September 2022
2022 Chair, "Novel approaches to detecting life and intelligence beyond Earth" session, Breakthrough Discuss, UC Santa Cruz, June 2022
2021 Chair, SETI and Society session, International Astronautical Congress, Dubai, UAE, October 2021
2021 to date International Programme Committee, International Astronautical Federation
2021, 2022 Organizing Committee, GNU Radio Conference
2021 Invited panelist, "Assembly of the Order of the Octopus" conference, July 2021
2021 MSc Examiner, University of Manchester
2021 NSF Review Panelist
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 – 2025 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 – 2020 Project Scientist for Breakthrough Listen on SKA-LOW and precursors
2018 to date Core Member, SKA Cradle of Life Science Working Group
2017 to date Member, International Academy of Astronautics Committee on SETI

2017 to date Member, ngVLA Cradle of Life Science Working Group
 2016 NASA Review Panelist
 2014 - 2022 Associate Member, NANOGrav collaboration
 2014 - 2022 Associate Member, Murchison Widefield Array collaboration
 2014 to date Member, 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 Awardee, Boeing / Griffith Observer Science Writing Competition
 2009 NASA Review Panelist
 2008 - 2019 Seminar organizer, UC Berkeley Radio Astronomy Laboratory

Frequent journal referee (A&A, ApJ, AJ, MNRAS, PASP, Ap&SS, ASCOM, JBIS, Acta Astronautica)

Oxford University:

2002 Awarded Willmer Prize for science writing, Corpus Christi College, Oxford
 2000 Senior Scholarship, Corpus Christi College
 1999 - 2000 Seminar organizer, 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 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 (> 1500 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

101. **Technosignature Searches of Interstellar Objects**
 Davenport, J. R. A., Sheikh, S. Z., **Croft, S.**, Lacki, B. C., Wright, J. T., Lintott, C., Frank, A., Lazio, T. J. W., Chandler, C. O., Siemion, A. P. V., DiKerby, S., White, E., Garcia Lopez, V., Yu, E. E., Frissell, M. K., Yoachim, P., Morato, N., Singh, D., Zhang, J., Seligman, D. Z., AAS Journals, submitted
<https://arxiv.org/abs/2508.16825>
100. **NSF-DOE Vera C. Rubin Observatory Observations of Interstellar Comet 3I/ATLAS (C/2025 N1)**
 Chandler, C. O. and 211 co-authors including **Croft, S.** 2025, AAS Journals, submitted
<https://arxiv.org/abs/2507.13409>
99. **Using anomaly detection to search for technosignatures in Breakthrough Listen observations**
 Pardo, S., Poznanski, D., **Croft, S.**, Siemion, A. P. V., Lebofsky, M. 2025, AJ, 170, 12
<https://arxiv.org/abs/2505.03927>
98. **Technosignature Searches with Real-time Alert Brokers**
 Gallay, E. M., Davenport, J. R. A., **Croft, S.** 2025, AJ, 170, 95
<https://arxiv.org/abs/2506.14744>

97. **A Novel Technosignature Search in the Breakthrough Listen Green Bank Telescope Archive**
Painter, C., **Croft, S.**, Lebofsky, M., Andersson, A., Choza, C., Gajjar, V., Price, D., Siemion, A. P. V. 2025, AJ, 169, 222
<https://arxiv.org/abs/2412.05786>
96. **The Breakthrough Listen Search for Intelligent Life: Galactic Center Search for Scintillated Technosignatures**
Brzycki, B., Siemion, A. P. V., de Pater, I., Choza, C., **Croft, S.**, Gajjar, V., Drew, J., Lacki, B. C., Price, D. C., Sheikh, S. Z. 2025, AJ, 168, 284
<https://doi.org/10.3847/1538-3881/ad7e18>
95. **Anomaly Detection and RFI Classification with Unsupervised Learning in Narrowband Radio Technosignature Searches**
Jacobson-Bell, B., **Croft, S.**, Choza, C., Andersson, A., Bautista, D., Gajjar, V., Lebofsky, M., MacMahon, D. H. E., Painter, C., Siemion, A. P. V. 2025, AJ, 169, 206
<https://arxiv.org/abs/2411.16556>
94. **The First High Frequency Technosignature Search Survey with the Sardinia Radio Telescope**
Manunza, L., Vendrame, A., Pizzuto, L., Mulas, M., Perez, K. I., Gajjar, V., Melis, A., Pilia, M., Perrodin, D., Aresu, G., Burgay, M., Cabras, A., Carboni, G., Casu, S., Coiana, T., Corongiu, A., **Croft, S.**, Egron, E., Johnson, O. A., Ladu, A., Lebofsky, M., Loi, F., MacMahon, D., Molinari, E., Murgia, M., Pellizzoni, A., Pisanu, T., Poddighe, A., Rea, E., Siemion, A., Soletta, P., Trudu, M., Vacca, V. 2025, Acta Astronautica, 233, 155
<https://arxiv.org/abs/2410.09288>
93. **Results of the follow-up of ANTARES neutrino alerts**
Albert, A. and 196 co-authors including **Croft, S.** 2024, JCAP, Vol. 2024, 042
<https://arxiv.org/abs/2402.16498>
92. **The Weird and the wonderful in our Solar System: Searching for Serendipity in the Legacy Survey of Space and Time**
Rogers, B., Lintott, C. J., **Croft, S.**, Schwamb, M. E., Davenport, J. R. A. 2024, AJ, 167, 118
<https://arxiv.org/abs/2401.08763>
91. **Searching the SN 1987A SETI Ellipsoid with TESS**
Cabral, B., Davenport, J. R. A., Sheikh, S., **Croft, S.**, Siemion, A. P. V., Giles, D., Cody, A. M. 2023, AJ, 167, 101
<https://arxiv.org/abs/2402.11037>
90. **A Deep Neural Network Based Reverse Radio Spectrogram Search Algorithm**
Ma, P. X., **Croft, S.**, Lintott, C., Siemion, A. P. V. 2024, RASTI, 3, 33
<https://academic.oup.com/rasti/article/3/1/33/7478003>
89. **The Breakthrough Listen Search for Intelligent Life: Technosignature Search of 97 Nearby Galaxies**
Choza, C., Bautista, D., **Croft, S.**, Siemion, A. P. V., Brzycki, B., Bhattaram, K., Czech, D., de Pater, I., Gajjar, V., Isaacson, H., Lacker, K., Lacki, B., Lebofsky, M., MacMahon, D. H. E., Price, D., Schoultz, S., Sheikh, S., Varghese, S. S., Morgan, L., Drew, J., Worden, S. P. 2024, AJ, 167, 10
<https://iopscience.iop.org/article/10.3847/1538-3881/acf576>
88. **A Simultaneous Dual-site Technosignature Search Using International LOFAR Stations**
Johnson, O. A., Gajjar, V., Keane, E. F., McKenna, D. J., Giese, C., McKeon, B., Carozzi, T. D., Alcaria, C., Brennan, A., Brzycki, B., **Croft, S.**, Drew, J., Elkins, R., Gallagher, P. T., Kelly, R., Lebofsky, M., MacMahon, D. H. E., McCauley, J., de Pater, I., Raeside, S. R., Siemion, A. P. V., Worden, S. O. 2023, AJ, 166, 193
<https://arxiv.org/abs/2310.15704>
87. **Developing a Drift Rate Distribution for Technosignature Searches of Exoplanets**
Li, M. G., Sheikh, S. Z., Gilbertson, C., He, M. Y., Isaacson, H., **Croft, S.**, Sneed, E. L. 2023, AJ, 166, 182
<https://arxiv.org/abs/2311.01427>
86. **A 4-8 GHz Galactic Center Search for Periodic Technosignatures**
Suresh, A., Gajjar, V., Nagarajan, P., Sheikh, S. Z., Siemion, A. P. V., Lebofsky, M., MacMahon, D. H. E., Price, D. C., **Croft, S.**, 2023, AJ, 165, 255
<https://arxiv.org/abs/2305.18527>

85. **Signal Synchronization Strategies and Time Domain SETI with GAIA DR3**
Nilipour, A., Davenport, J. R. A., **Croft, S.**, Siemion A. P. V. 2023, AJ, 166, 79
<https://arxiv.org/abs/2308.00066>
84. **The Breakthrough Listen Search for Intelligent Life: Detection and Characterization of Anomalous Transits in Kepler Lightcurves**
Zuckerman, A., Davenport, J. R. A., **Croft, S.**, Siemion, A., de Pater, I. 2024, AJ, 167, 20
<https://arxiv.org/abs/2312.07903>
83. **The Breakthrough Listen Search for Intelligent Life: A Laser Search Pipeline for the Automated Planet Finder**
Zuckerman, A., Ko, Z., Isaacson, H., **Croft, S.**, Price, D., Lebofsky, M., Siemion, A. 2023, AJ, 165, 114
<https://arxiv.org/abs/2301.06971>
82. **A Green Bank Telescope search for narrowband technosignatures between 1.1-1.9 GHz during 12 Kepler planetary transits**
Sheikh, S., Kanodia, S., Lubar, E., Bowman, W., Cañas, C., Gilbertson, C. MacDonald, M., Wright, J., MacMahon, D., **Croft, S.**, Price, D., Siemion, A., Drew, J., Worden, S. P., Trenholm, E. 2023, AJ, 165, 61.
<https://arxiv.org/abs/2212.05137>
81. **A Search for Radio Technosignatures at the Solar Gravitational Lens Targeting Alpha Centauri**
Tusay, N., Huston, M. J., Dedrick, C. M., Kerby, S., Palumbo, M. L., III, **Croft, S.**, Wright, J. T., Robertson, P., Sheikh, S., Duffy, L., Foote, G. H., Hyde, A., Lafond, J., Mulikin, E., Parts, W., Sandhaus, P., Smith, H. H., Sneed, E. L., Czech, D., Gajjar, V. 2022, AJ, 164, 116.
<https://arxiv.org/abs/2206.14807>
80. **Searching the SETI Ellipsoid with Gaia**
Davenport, J. A., Cabrales, B., Sheikh, S., **Croft, S.**, Siemion, A. P. V., Giles, D., Cody, A. M. 2022, AJ, 164, 117.
<https://arxiv.org/abs/2206.04092>
79. **Searching for Broadband Pulsed Beacons from 1883 Stars using Neural Networks**
Gajjar, V., LeDuc, D., Chen, J., Siemion, A. P. V., Sheikh, S. Z., **Croft, S.**, Czech, D., DeBoer, D., DeMarines, J., Drew, J., Isaacson, H., Lacki, B., Lebofsky, M., MacMahon, D. H. E., Ng, C., De Pater, I., Perez, K. I., Price, D. C., Suresh, A., Webb, C., Worden, S. P. 2022, ApJ, 932, 81.
<https://arxiv.org/abs/2205.02964>
78. **Observations and Simulations of Radio Emission and Magnetic Fields in Minkowski's Object**
Nolting, C., Lacy, M., **Croft, S.**, Fragile, P. C., Linden, S. T., Nyland, K., and Patil, P. 2022, ApJ, 936, 130.
<https://arxiv.org/abs/2206.04757>
77. **A Deep-Learning Search for Technosignatures of 820 Nearby Stars**
Ma, P. X., Ng, C., Rizk, L., **Croft, S.**, Siemion, A. P. V., Brzycki, B., Czech, D., Drew, J., Gajjar, V., Hoang, J., Isaacson, H., Lebofsky, M., MacMahon, D., De Pater, I., Price, D. C., Sheikh, S., Worden, S. P., 2023, Nature Astronomy.
<https://arxiv.org/abs/2301.12670>
76. **Setigen: Simulating Radio Technosignatures for SETI**
Brzycki, B., Siemion, A. P. V., De Pater, I., **Croft, S.**, Hoang, J., Ng, C., Price, D. C., Sheikh, S., Zheng, Z., 2022, AJ, 163, 222.
<https://arxiv.org/abs/2203.09668>
75. **The Breakthrough Listen Search for Intelligent Life: Technosignature Search of Transiting TESS Targets of Interest**
Franz, N., **Croft, S.**, Siemion, A. P. V., Traas, R., Brzycki, B., Gajjar, V., Isaacson, H., Lebofsky, M., MacMahon, D. H. E., Price, D. C., Sheikh, S. Z., DeMarines, J., Drew, J., Worden, S. P. 2022, AJ, 163, 104.
<https://arxiv.org/abs/2201.00918>
74. **Multiband Detection of Repeating FRB 20180916B**
Sand, K. R., Faber, J., Gajjar, V., Michilli, D., Andersen, B. C., Joshi, B. C., Kudale, S., Pilia, M., Brzycki, B., Cassanelli, T., **Croft, S.**, Dey, B., Hoang, J., Leung, C., McKinven, R., Ng, C., Pearlman, A. B., Petroff, E., Price, D. C., Siemion, A., Smith, K., Tendulkar, S. P. 2022, ApJ, 932, 98.
<https://arxiv.org/abs/2111.02382>

73. **Strategies for Maximizing Detection Rate in Radio SETI**
Houston, K., Siemion, A., **Croft, S.** 2021, AJ, 162, 151.
<https://arxiv.org/abs/2106.06594>
72. **Analysis of the Breakthrough Listen signal of interest blc1 with a technosignature verification framework**
Sheikh, S. Z., Smith, S., Price, D. C., DeBoer, D., Lacki, B. C., Czech, D., **Croft, S.**, Gajjar, V., Isaacson, H., Lebofsky, M., MacMahon, D. H. E., Ng, C., Perez, K., Siemion, A. P. V., Drew, J. 2021, Nature Astronomy, 5, 1153.
<https://www.nature.com/articles/s41550-021-01508-8>
71. **A radio technosignature search towards Proxima Centauri resulting in a signal of interest**
Smith, S., Sheikh, S. Z., Price, D. C., DeBoer, D., Lacki, B. C., Czech, D., **Croft, S.**, Gajjar, V., Isaacson, H., Lebofsky, M., MacMahon, D. H. E., Ng, C., Perez, K., Siemion, A. P. V., Drew, J. 2021, Nature Astronomy, 5, 1148.
<https://www.nature.com/articles/s41550-021-01479-w>
70. **A broadband radio view of transient jet ejecta in the black hole candidate X-ray binary MAXI J1535-571**
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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)**
Kozłowski, 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., Grogin, 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.
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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.
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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.
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11. **The Spitzer Deep, Wide-Field Survey (SDWFS)**
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10. **A young, dusty, compact radio source within a large Ly α halo**
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9. **Radio-loud high-redshift protogalaxy candidates in Boötes**
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8. **Radio AGNs in 13,240 galaxy clusters from the Sloan Digital Sky Survey**
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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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<http://arxiv.org/abs/astro-ph/0604557>
3. **The filamentary Large Scale Structure around the $z = 2.16$ radio galaxy PKS 1138-262**
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2. **Detection of a CMB decrement towards a cluster of mJy radiosources**
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CONFERENCE PROCEEDINGS, WHITE PAPERS, & OTHER PUBLICATIONS

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<https://doi.org/10.3847/2515-5172/ac9408>
29. **Absence of Bursts between 4 and 8 GHz from FRB 20200120E Located in an M81 Globular Cluster**
Gajjar, V., Michilli, D., Faber, J. T., Berger, S., **Croft, S.**, Pearlman, A. B., Sand, K. R., Scholz, P., Siemion, A. P. V. 2021, RNAAS, 5, 166.
28. **Re-Analysis of Breakthrough Listen Observations of FRB 121102: Polarization Properties of Eight New Spectrally Narrow Bursts**
Faber, J. T., Gajjar, V., Siemion, A. P. V., **Croft, S.**, Czech, D., DeBoer, D., DeMarines, J., Drew, J., Isaacson, H., Lacki, B. C., Lebofsky, M., MacMahon, D. H. E., Ng, C., de Pater, I., Price, D. C., Sheikh, S. Z., Webb, C., Worden, S. P. 2021, RNAAS, 5, 17.
<https://doi.org/10.3847/2515-5172/abde48>
27. **Breakthrough Listen Search for Technosignatures toward the Kepler-160 System**
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26. **4 - 11 GHz detection of Swift J1818.0-1607 with the Breakthrough Listen instrument at the Robert C. Byrd Green Bank Telescope**
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<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.
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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.
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23. **Commensal, Multi-user Observations with an Ethernet-based Jansky Very Large Array**
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<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.
<https://doi.org/10.1093/astrogeo/atz098>
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/ʻOumuamua 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.astronomerstelegam.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.
<http://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:

Green Bank Observatory Community Talk Series, August 2025
Keynote, National Astronomy Meeting, Durham, UK, July 2025
Breakthrough Listen UK Kickoff, Manchester, UK, November 2023
ThunderKAT meeting, Oxford, UK, September 2023
NASA Technosignature Seminar, online, December 2022
Green Bank Observatory 65th Anniversary Colloquium, October 2022
Keynote, Breakthrough Discuss, Santa Cruz, June 2022
Invited talk at Nançay Observatory, France, March 2022
Colloquium at Paris Observatory, France, March 2022
Pesek Lecturer, International Astronautical Congress, Dubai, UAE, October 2021
Invited talk at Louisiana State University, Baton Rouge, LA, April 2021
Invited talk at Brown University, Providence, RI, February 2021
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 Institution for Science, 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, National Harbor, MD, January 2025
SETI Italy, Cagliari, Italy, October 2024
International Astronautical Congress, Milan, Italy, October 2024
Kavli-IAU Symposium, Durham, UK, April 2024
American Astronomical Society, New Orleans, LA, January 2024
International Astronautical Congress, Baku, Azerbaijan, October 2023
American Astronomical Society, Seattle, WA, January 2023
GNU Radio Convention, Washington, DC, September 2022
International Astronautical Congress, Paris, France, September 2022
Astrobiology Science Conference, Atlanta, GA, May 2022
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