

Dr. Christopher L. Carilli

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Education

- Massachusetts Institute of Technology, 1984 to 1989, Doctor of Philosophy, Physics
- University of Chicago, 1983 to 1984, Graduate Study, Astronomy and Astrophysics
- University of Pennsylvania, Bachelor of Arts, Physics and Astronomy, *Cum Laude*

Employment

- Astronomer, National Radio Astronomy Observatory, April 2022 to present
- Chief Scientist, National Radio Astronomy Observatory, Oct 2008 to April, 2022
- John Baldwin Director of Research, Cavendish Astrophysics, Cambridge University (20% appointment), Oct 2013 to Sept 2019
- Head, Division of Scientific and Academic Affairs (NRAO), March 2011 to March 2014
- Director, North American ALMA Science Center (NRAO), April 2006 to Oct 2008
- Astronomer, National Radio Astronomy Observatory, Socorro, NM, Jan 1996 to present (Associated Universities, Inc. tenure granted: Feb 2002)
- Astrophysicist, Smithsonian Astrophysical Observatory, Cambridge, MA, Jan 1995 to Jan 1996
- NOVA Research Associate, Leiden Observatory, the Netherlands, Aug 1993 to Jan 1995
- NRAO Postdoctoral Fellow, National Radio Astronomy Observatory, Socorro, NM, Oct 1990 to Aug 1993
- Center Research Fellow, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, Aug 1989 to Oct 1990

Honors, Fellowships, Awards, Appointments

- Adjunct Faculty New Mexico Institute of Technology, Jan 2015 to Jan 2022
- Visiting Fellow, St. Edmund's College, University of Cambridge, 2011 to present
- Max-Planck Research Prize, jointly awarded by the Max-Planck Society and Humboldt Society, July 2005¹
- Alexander von Humboldt Research Fellow, Max Planck Institute for Radio Astronomy, May 1999 - Dec 1999
- Greenlaw Fellowship, Massachusetts Institute of Technology, 1989

Societies

International Astronomical Union, International Union of Radio Scientists, Royal Astronomical Society UK, Alexander von Humboldt Society of North America

Selected Astronomical Committee Service

¹ <http://www.humboldt-foundation.de/web/33741.html>

ASKAP Large Program Review (Jan 2022); NSF Astrophysics Division Visiting Committee (2019); NCRA India Visiting Committee (2020); DOE 21cm Cosmology Red Team (2018); AURA HDST Red Team (2017); IAU Division X Committee (2011-2016); SKA International Science Review Panel (Chair 2014); SMA Future review panel; CSIRO/CASS Visiting Committee (2011); SKA International Science Advisory Committee (Chair 2002 – 2004); ALMA Science Advisory Committee; IRAM Visiting Committee; Chandra TAC (2x, panel chair); Hubble Space Telescope TAC (2x); RXTE TAC; Spitzer TAC (2x, panel chair); AUI Futures of Radio Astronomy; NSF Cosmology Program Panel (Chair); NSF Major Facilities Review

Selected Review Articles and Publication Statistics

- ‘Cool gas in high redshift galaxies,’ C.L. Carilli and F. Walter 2013, ARAA, 51, 105
- “Observational constraints on cosmic reionization,” X. Fan, C.L. Carilli, B. Keating 2006, ARAA, 44, 415
- “Cluster Magnetic Fields,” C.L. Carilli & G.B. Taylor, 2002, ARAA, 40, 319
- “Cygnus A,” C.L. Carilli and P.D. Barthel 1996, A&A Reviews, 7, 1
- ADS March 2022, 437 refereed publications, 84 first author, 34000 citations, H = 98

Books

- “Science with the Square Kilometer Array,” eds. C.L. Carilli & S. Rawlings 2004, New Astron. Rev., Vol. 48, Elsevier: Amsterdam
- “Aperture Synthesis in Radio Astronomy II,” eds. G.B. Taylor, C.L. Carilli, and R.A. Perley 1999, ASP: San Francisco, USA
- “Highly Redshifted Radio Lines,” eds. C.L. Carilli, S. Radford, K.M. Menten, and G. Langston, 1999, ASP: San Francisco, USA.
- “Cygnus A: Study of a Radio Galaxy,” eds. C.L. Carilli and D.E. Harris 1996, Cambridge University Press: Cambridge, UK.
- “Cold Gas at High Redshift,” eds. M. Bremer, P. van der Werf, H. Rottgering, and C. Carilli 1996, Kluwer Press: Dordrecht, The Netherlands.

Conference Summary or Opening Lectures

- “CMB S4 Annual Meeting,” 2018, Summary Panel, Princeton, NJ, USA
- “Science at Low Frequencies,” 2016, Caltech, Pasadena, CA, USA
- “Advancing Astrophysics with a Square Kilometer Array,” 2014, Naxos, Italy
- “Powerful radio galaxies: Emperors of the Universe,” 2013, Leiden, NL
- “Galaxies throughout the cosmos,” 2008, Socorro, NM
- “HI survival through cosmic time,” 2007, Spineto, Italy
- “The dusty and molecular universe,” 2004, Paris, France

Teaching experience

- Have supervised numerous PhD students, including students from Cambridge, Leiden, Heidelberg, Bonn, Peking, New Mexico Tech
- Organized the NRAO summer school on radio astronomy, edited text book of lectures
- Lecturer at graduate courses and schools in astrophysics, including:
 - HERA Summer Schools, Santa Fe, 2017-2018
 - Faculty for the Vatican Observatory Graduate Summer School June 2014
 - Cosmology Summer School, Santa Fe, NM, USA (2014-2016)
 - Cosmology School, Kavli Institute for Astrophysics, Beijing, June 2008
 - Summer School Multiwavelength Analysis of Galaxy Populations, Aug 2007

Recent Funding Awards (last three years)

- Newton Fund, UK Royal Society (co-PI, \$100k)
- Hydrogen Epoch of Reionization Array, NSF MSIP (co-PI, \$9M)
- Chandra Legacy Observations of Cygnus A, NASA (US PI, \$90k)
- Chandra Legacy Observations of the Spiderweb Galaxy (US PI \$100k)

Professional References

- Prof. Karl Menten, Director, Max Planck Institute for Radio Astronomy, Auf dem Hugel 69, D 53121, Bonn, Germany, phone: +49 228 525 297 (kmenten@mpifr-bonn.mpg.de)
- Prof. G. Miley, Leiden Observatory, PO Box 9513, NL 2300 RA Leiden, Netherlands, Phone: +31 71 5275 849 (miley@strw.leidenuniv.nl)
- Dr. Fabian Walter, Max-Planck Institute for Astronomy, Heidelberg, Germany (walter@mpia.de)
- Dr. Paul Vanden Bout, Director Emeritus, National Radio Astronomy Observatory, Charlottesville, VA, 87801, USA, phone: +1 434 296 0231 (pvandenb@nrao.edu)
- Prof. Ron D. Ekers, Director Emeritus, ATNF, CSIRO Astronomy & Space Science PO Box 76 Epping NSW 1710 Australia Phone: +61-2-9372-4600 (Ron.Ekers@csiro.au)