

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

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

Honors, Fellowships, Awards, Appointments

- Adjunct Faculty New Mexico Institute of Technology, Jan 2015 to present
- Visiting Fellow, St. Edmund's College, Cambridge, August 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 - December 1999
- Greenlaw Fellowship, Massachusetts Institute of Technology, 1989

Societies

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

¹ A research prize of \$750,000 Euros over 5 years: <http://www.humboldt-foundation.de/web/33741.html>

Selected Astronomical Committee Service

SKA International Science Review Panel (Chair 2014); SMA Future review panel (2012); CSIRO/CASS Visiting Committee (2011), IAU Div10 Committee on Radio Astronomy, 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 Proposal Review for Major Facilities

Selected Review Articles and publication statistics²

- ‘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
- According to ADS in November 2016: 317 refereed publications, 74 as first author, 20270 total citations, and a Hirsch index of 78

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

- “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 (and co-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 lectures³
- Lecturer at graduate courses and schools in astrophysics, including:
 - Faculty for the Vatican Observatory Graduate Summer School June 2014
 - Cosmology Summer School, Santa Fe, NM, USA (annual)
 - Cosmology School, Kavli Institute for Astrophysics, Beijing, June 2008
 - Summer School Multiwavelength Analysis of Galaxy Populations, Aug 2007

² For a full listing of my publications, please go to: http://adsabs.harvard.edu/abstract_service.html

Recent Funding Awards (last three years)

- Hydrogen Epoch of Reionization Array II (co-PI): \$10M (NSF)
- Hydrogen Epoch of Reionization Array (co-PI): \$2.2M (NSF)
- Chandra Legacy Observations of Cygnus A (US PI): \$90k (NASA)
- Herschel studies of fine structure lines from the CO Einstein ring (US PI): \$56k (NASA)

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)
- Prof. Paul Alexander, Battcock Center for Experimental Astrophysics, Cavendish Lab, JJ Thomson Ave, Cambridge, CB3 0HE, UK (pa@mrao.cam.ac.uk)
- Dr. Paul Vanden Bout, Director Emeritus, National Radio Astronomy Observatory, Charlottesville, VA, 87801, USA, phone: +1 434 296 0231 (pvandenb@nrao.edu)
- Prof. Pierre Cox, Director, Atacama Large Millimeter Array, Alonso de Cordova 3107, Vitacura, Santiago, Chile (cox@alma.cl)
- Prof. John Stocke, Center for Astrophysics and Space Astronomy, University of Colorado, 389 UCB, Boulder, CO 80309, USA phone: +1-303-492-1521 (John.Stocke@colorado.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)