

CURRICULUM VITAE: CAROLIN CRAWFORD

Address: Institute of Astronomy, Madingley Road, Cambridge CB3 0HA
Emmanuel College, Cambridge, CB2 3AP
Email: csc@ast.cam.ac.uk
Telephone: 01223 – 337510 (IoA)
01223 – 742934 (Emmanuel)
Website: <http://www-xray.ast.cam.ac.uk/~csc/>

Present Employment:

Oct 2005 – Senior Outreach Officer at Institute of Astronomy (currently at 50% of full-time)
Oct 2004 – Fellow, Admissions Tutor (Physical Sciences) and College Lecturer at Emmanuel College,
Cambridge University (currently at 50% of full-time)

Previous Employment:

Oct 1996 – Sep 2007 Royal Society University Research Fellow
(working at 80% of full-time from Nov 1998; 50% of full-time from Oct 2005)
Oct 2002 – Sep 2004 Associate Lecturer in Astronomy, Newnham College
Oct 1999 – Sep 2004 Assistant Director of Research at the Institute of Astronomy, Cambridge
Oct 1994 – Sep 1996 PPARC Advanced Fellow, Institute of Astronomy, Cambridge
Oct 1991 – Sep 1994 Research Fellow, Trinity Hall, University of Cambridge
Oct 1991 – Sep 1993 SERC Postdoctoral Fellow, Institute of Astronomy, Cambridge
Oct 1988 – Sep 1991 Skynner-Radcliffe Research Fellow in Astronomy at Balliol College, Oxford

Further Education:

1985 – 1988 PhD; Newnham College and Institute of Astronomy, University of Cambridge
1982 – 1985 BA Hons in Mathematics; Newnham College, University of Cambridge

Awards:

One of the UK Resource Centre for Women in Science, Engineering and Technology (UKRC)'s 2009 'Women of Outstanding Achievement', awarded for "communication of SET with a contribution to society".

Astronomical Outreach Presentations:

2010 : Over 64 presentations delivered to an audience total of over 3500
2009 : Over 54 presentations delivered to an audience total of over 4020
2008 : Over 68 presentations delivered to an audience total of over 5895
2007 : Over 76 presentations delivered to an audience total of over 4540
2006 : Over 75 presentations delivered to an audience total of over 4390

Presentations include : talks, lectures, workshops, debates and café scientifiques give in person or via videoconference link

Topics covered include : Big Numbers; The Universe through many eyes; Black holes for beginners; The science and beauty of nebulae; Dark Energy; The Planets; The energetic Universe - X-ray Astronomy; Life on Mars?; Peculiar Galaxies; Exploring the Solar System; Recent results from the Hubble Space Telescope; The Invisible Universe; Finding your way around the night sky; Saturn, its rings and moons; Cosmology for beginners; Exoplanets and how to find them; Comets, asteroids and meteors; Why is Pluto no longer a planet? ; Our place in the Cosmos; An introduction to the Milky Way; Clusters of galaxies; Active galaxies; The cool Universe – Infrared Astronomy

Audience includes : School pupils at all stages of their education from reception year to sixth-formers; School Heads of Science; Physics teachers; Amateur astronomical associations; Community groups such as the WI, Rotary Club, Scout Fellowship, brownie, cub, guide, scout organisations, Girl's Brigade; University undergraduate societies; Cambridge Alumni; continuing education students; potential undergraduate applicants targeted through the University's widening participation schemes; members of the Royal Society and their guests; and a wide cross-section of the general public.

At a wide range of venues including : schools; public observing evenings; the Royal Society; Cheltenham Science Festival; Cambridge Science and Music Festivals; Cambridge alumni weekend; the British Council; *Astrofest*; the Institute of Physics; the Science Museum Dana Centre; the Secret Garden Party music festival; Science Fiction conventions; the Norwich Atrium; Newcastle and Hertfordshire Universities.

Radio broadcasting experience : Regular panellist on BBC Radio 4's *Home Planet* , appearing on the programme 19 times since October 2006; panellist on the monthly *Naked Astronomers* podcast; 6 appearances on *In our time* on BBC Radio 4 (discussing the 'cool' Universe; gravitational waves; galaxies; asteroids; dark energy; planets); and occasional appearance on other shows: *Woman's Hour* (9/2008), *Start the Week* (2/2004, 5/2009), *The Naked Scientists* (5/2007, 2/2009) and many ad-hoc radio interviews (most of them live, in the studio and down the phone) with the BBC Radio Cambridgeshire and other local stations.

Professional Societies:

Fellow of the Royal Astronomical Society
 Member of the International Astronomical Union

Research Publication Record:

95 research publications in refereed journals since 1986

Professional talks:

18 seminars, invited and contributed talks given since 2003.

Topics include: The origin of the emission-line nebulae around central cluster galaxies; The extended X-ray emission around distant powerful radio galaxies; The connection of X-ray gas to star formation and cool gas; Optical and near-infrared observations of hard serendipitous Chandra sources

Professional Committee Membership:

2007	Chair, clusters panel at NASA <i>Chandra</i> X-ray telescope peer review committee
2006 – 2010	Royal Society Summer Exhibition Committee
2006	Judging panel for the Royal Society's Aventis (Junior) Prize for science books
2004, 2006	NASA <i>Chandra</i> X-ray telescope peer review committee
2002	Scientific organizing committee for the international workshop on 'X-ray surveys in the light of new observatories' held in Santander, September 2002
1998 – 2001	'Topic Team' Advisory Panel, <i>Exploring the Universe</i> at the National Space Centre, Leicester
1996 – 1999	PPARC JKT and INT time allocation committee
1994, 1997, 1999, 2001 – 2003	Graduate student admissions committee, Institute of Astronomy
1994 – 1997	PPARC Astronomy committee
1992 – 1994	<i>ROSAT</i> time allocation committee

Participation in activities promoting women in Science, Engineering and Technology:

2003 – 2008	Women's Forum steering group for the University of Cambridge
2002 –	STFC/PPARC 'Women in SET' Focus Group looking at ways to improve the representation and participation of women in STFC's area of research
2001 – 2010	<i>Springboard</i> undergraduate steering committee for Cambridge University
2000 –	Qualified <i>Springboard</i> trainer running regular programmes for Cambridge University. <i>Springboard</i> is a career and personal development course for women based on four one-day workshops spread over two university terms
1999 –	Departmental representative for the Cambridge University Women in Science, Engineering and Technology Initiative (WiSETI).
1998 – 2004	Royal Astronomical Society committee on Women in Astronomy and Geophysics

Examining, teaching, admissions and supervising experience:

2005, 2003, 2000, 1998, 1996	8-lecture graduate course on <i>Clusters of Galaxies</i> , Institute of Astronomy
Oct 2003 – Sep 2006	PhD supervisor in Cambridge for Nina Hatch, University of Cambridge (completed 2006)
Oct 2000 – Oct 2003	One of two tutors responsible for graduate students at the Institute of Astronomy. This work involved being a key member of the graduate admissions committee at the IoA, as well as the continued assessment (through interviews and written examinations) of the students' progress towards a PhD
2001 – 2003	Examiner for Mathematics for Natural Scientists, part 1A
Oct 2000 – Sep 2002	MSc supervisor in Cambridge for Clemens Bayer-Kim (completed 2002)
Oct 1997 – Sep 2000	PhD supervisor for Richard Wilman, University of Cambridge (completed 2000)
Oct 1992 – Sep 1995	D.Phil supervisor for Julie Weadock, University of Oxford (completed 1995)