

Graham Farmelo: CV in brief

Fellow of Churchill College, University of Cambridge

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2003–2018 Author and international consultant in public engagement

- Author 'The Universe Speaks in Numbers,' to be published in UK and USA in May 2019
- Elected Fellow of Churchill College, University of Cambridge (2017)
- Director's visitor at the IAS, Princeton, every summer 2004-2018
- Chair, CERN History Forum's on public dimensions of history, CERN, 1 February 2018
- Led series of art-science events involving Institute of Physics and national arts institutions: Royal Opera House (2014), Royal Shakespeare Company (2015) and Tate Modern (2015)
- Organised public discussion between novelist Ian McEwan and physicists Nima Arkani-Hamed about the relationship between art and science – opening of 'Collider' exhibition at the Science Museum, 13 November 2014
- Writer-in-residence Kavli Institute for Theoretical Physics, University of California at Santa Barbara (2015) and at the Perimeter Institute for Theoretical Physics (2016)
- Speaker at Blue Plaque event for Patrick Blackett's residence in Chelsea, London, 10 April 2015
- Published 'Churchill's Bomb' in US, Canada and UK (2013)
- Awarded 2012 Kelvin Prize and Medal by the UK Institute of Physics
- Chair, two International Panels for the Irish Government to review public provision for science communication and education in (2012, 2008)
- Elected Honorary Fellow, British Science Association (2011)
- Author of 'The Strangest Man', a biography of Paul Dirac (2009): winner, UK Costa Prize for Biography (2010), the Los Angeles Times Science Book Prize (2010); finalist for 2010 PEN biography in biography (New York); Physics World's book of the 2009, one of Nature's books of the year. Translated into ten languages
- Advisor to South Korean government on science communication policy
- Co-director of 'Closing the Gap', Boston USA, 19–21 January 2007, the largest ever inter-disciplinary conference on public-science engagement
- Author of the UK strategy for the promotion of the Large Hadron Collider and deputy director of the LHC advisory committee for the UK Science and Technology Facilities Council
- Chair of the International Advisory Board of the Boston art-science collaboration between the city's Museum of Science, its Symphony Orchestra, its Museum of Fine Arts, and its Wang Performance Center.
- Author of strategy papers for the UK science-public engagement community, notably for the Wellcome Trust, the Royal Society and on the opportunities for science-related themes in the 2012 London Olympiad

- Numerous appearances on BBC TV, e.g. 'Secrets of Quantum Physics', 'Nothing', 'Beautiful Equations' (BBC4) and BBC Radio 4, including In Our Time, The Today Programme, Start the Week, Saturday Review and Science Now; over 600 articles and reviews in The Times, Nature, New Scientist, New York Times, Guardian, Daily Telegraph, Times Higher, Wall St Journal, The Lancet and other publications.

2000–2002 Science Museum, Assistant Director

- Assistant Director and Head of Science Communication at the Science Museum (140 staff, annual non-staff budget of £2.5m)
- Co-directed the first international conference on museums and public engagement with research, St Paul USA; co-editor of the resultant book 'Creating Connections'
- Director of the Dana Centre project, the world's first purpose-built public-science engagement centre specifically for adults (budget £8m)
- Invited presentation to the House of Lords Committee on the future of science communication in the UK
- Conceived the world's first virtual science exhibition ('Bionet'), funded by the EU (500k euros)
- First popular science book: editor of 'It Must Be Beautiful', among the five top-selling hardback science books of the year 2002. Contributors include Robert May, Peter Galison, John Maynard Smith, Roger Penrose, Christine Sutton, Steven Weinberg and Frank Wilczek

1996–2000 Science Museum, Director of Exhibitions, Wellcome Wing

- Author of the first vision of the content of the Wellcome Wing
- Leading member of Museum's executive committee for the Wellcome Wing, winning funds of £50m from industry, National Lottery, UK research councils and charitable foundations
- Director of Exhibitions, Wellcome Wing. Set up and chaired advisory panels for each of the exhibitions, all delivered on time and to budget
- Director of series of exhibitions 'Technology Futures' and secured £50k funding for the initiative from DTI
- Directed five science engagement initiatives, including five UK contributions to European Science Week, notably the first-ever consensus conference for teenagers
- Elected Fellow of the Institute of Physics (1998)

1990–1995 Science Museum, Head of Interpretation and Education

- Co-directed Science Museum's first series of rapidly changing exhibitions on contemporary science and technology. Included first museum presentations, including DNA fingerprinting, buckyballs, chaos, passive smoking, the Big Bang and nanotechnology
- Directed three national and two EU-funded European tours of these exhibitions, including a visit of the 'Big Bang' exhibition to CERN
- Directed four pioneering UK events in European Science Weeks, including world's first consensus conference for teenagers (on new genetics) in 1994 and first European science-drama festival (1995)

- Set up and directed the first visitor studies unit in any science museum in Europe; directed the first European conference on the subject
- Author of 'Scientific American' feature on X-rays centenary (November 1995)
- At Imperial College, directed the UK's first museum studies module in the first MSc course in science communication (1992–1998)
- Appointed first poet-in-residence to a UK science institution (1994)
- Introduced sleepovers to UK museums - conceived and directed the Museum's programme of Science Nights (sleep-overs)
- Introduced the first programme of science demonstrations to the UK's most popular science and technology gallery, Launch Pad, and secured government funding for this programme (from the DTI)
- Directed international meeting to mark 50th anniversary of the nuclear chain reaction (2 December 1992) attended by experimenters present at the event in Chicago, historians, scientists and industrialists.

1977–1990 Open University

- Appointed lecturer in physics, age 24, then the youngest tenured academic in UK
- Director of the Science Foundation Course, which introduced science to 100,000 students worldwide
- Wrote and presented 20 television programmes and 8 radio programmes
- Conceived 'Science Matters', the University's first interdisciplinary course and its most popular advanced science course (later, external examiner)
- Appointed Affiliate Professor of Physics at Northeastern University, Boston, USA (1990-present)

1971-1977 Liverpool University

- PhD in theoretical physics ('On the Spin Dependence of Nucleon-Nucleon Scattering'), University of Liverpool
- BSc in theoretical physics (First Class Honours), University of Liverpool.