

## Education

- 1990 **Harvard University.** Ph.D. in Physics  
1989 **Harvard University.** A.M. in Physics  
1984 **Imperial College.** B.Sc.(1st class) Physics. Top graduating student in the physical sciences, London University

## Major Academic Awards and Appointments

- 2010- **Visiting Professor**, Physics Department, Stanford University  
2009 **Visiting Professor**, Physics Department, UC Berkeley  
2008- **Dalitz Institute for Fundamental Physics**, Oxford University.  
2006-11 **Royal Society Wolfson Research Merit Award**  
2006- **Full Professor**, Physics Department, Oxford University  
2005 **Visiting Professor**, Physics Department, UC Davis  
2003-05 **AHRB/ACE Fellowship**, Oxford University. £36,000 joint award with artist Paola Pivi  
2002- **Tenured University Lecturer**, Theoretical Physics, Oxford University, & **Senior Physics Fellow**, New College, Oxford University  
1998-02 **Staff Member**, Theory Division, CERN  
1998 **DOE Outstanding Junior Investigator Award.**  
\$250,000 award based on research excellence (award declined)  
1998-99 **Assistant Professor**, Johns Hopkins University  
1997-99 **Alfred P. Sloan Foundation Award**, Institute for Advanced Study & CERN. \$35,000 award based on research excellence  
1996-98 **WM Keck Foundation Award**, Institute for Advanced Study.  
\$120,000 award for outstanding research  
1994-98 **Long-Term Member** (Assistant Professor), Institute for Advanced Study, Princeton  
1992-94 **DOE Distinguished Research Fellow**, Lawrence Berkeley Laboratory.  
One of only twelve awards in USA across all physical sciences  
1990-92 **Postdoctoral Research Fellow**, Princeton University  
1986-88 **NATO Overseas Studentship**, Harvard University  
\$90,000 award based on academic excellence. Sole awardee.  
1985-87 **Frank Knox Fellowship**, Harvard University  
\$120,000 award based on academic excellence. One of only two such awards.  
1984 **Granville Prize** (top physical sciences graduate), London University  
1984 **Callender Prize** (top physics graduate), Imperial College, London University

## Major Teaching Experience and Awards

- 2008      **Outstanding Undergraduate Teaching Award**, Oxford University
- 2002-      **PhD Thesis Supervision**, Oxford University.  
**Current students:** Mathew Bullimore, James Unwin, Ed Hardy, Robert Lasenby, Nana Liu.  
**Past students:** Ben Gripaios, Stephen West, Thomas Flacke, Babiker Hassanain, Francesco Riva, Joao Rosa, Matthew McCullough, Chris McCabe (all still in academia)
- 2002-      **Oxford University Lecture Courses.** Undergraduate: Quantum Mechanics; Electromagnetism. Graduate: Supersymmetry; Extra Dimensions; The Standard Model and Beyond; Modern Astro-Particle Physics
- 2002-11   **New College Tutorials:** Atomic Physics; Advanced Mathematical Methods; Introductory Mechanics; Mathematical Methods; Special Relativity; General Relativity; Quantum Mechanics; Nuclear & Particle Physics
- 2002-03   **British Universities Summer School in Theoretical Physics.** Supersymmetry lectures, Glasgow (2002) and London (2003)
- 2002      **CERN.** Lectures on extra dimensions and branes
- 2000-02   **European School of High-Energy Physics.** Slovakia (1999), Portugal (2000), Switzerland (2001), Greece (2002)
- 1999      **ETH, Zurich.** Lectures on M-theory, branes, and extra dimensions
- 1999      **NIKHEF, Amsterdam.** Lectures on physics beyond-the-standard-model
- 1999      **UK Theory Institute Lectures.** Brane-world theories
- 1999      **Erice, School of Subnuclear Physics.** Lectures on extra dimensions
- 1994-96   **Institute for Advanced Study.** Lectures on astro-particle physics
- 1991-92   **Princeton University.** Undergraduate Thesis Advisor
- 1988-90   **Harvard University.** Danforth University Teaching Center Consultant. One of only six such posts; chosen on the basis of outstanding university teaching
- 1989      **White Prize**, Harvard University, for outstanding teaching
- 1988      **White Prize**, Harvard University, for outstanding teaching
- 1987-90   **Harvard University.** Head Teaching Fellow for Science Core Courses A15, 20 and 26. (Introductory Classical Mechanics and Electromagnetism; Modern Physics; Quantum Mechanics.) Teaching Fellow, Phys 286, Advanced QFT

## Major Professional Service

- 2008-      **Dalitz Institute for Fundamental Physics**, Oxford University  
Led organisation of Institute and associated visitor program
- 2008-11   **Physics Management Committee**, Oxford University. One of ten members.  
Primary committee controlling all departmental business
- 2006-08   **Chair, Particle Theory Grants Panel**, PPARC and UK Science and Technology Facilities Council

- 2006-08 **Physics Academic Committee**, Oxford University. One of ten members. Primary committee controlling all departmental teaching activities
- 2004-06 **PPARC Fellowship & Advanced Fellowship Committees**. Member
- 2002-09 **Editor, Annals of Physics**
- 2000 **Co-Organizer, Supersymmetry 2000 Conference**, CERN
- 1999-00 **Co-Organizer, Aspen Workshop**. Aspen, USA, July 2000
- 1997-02 **McGraw-Hill Encyclopedias**. Consulting editor and contributor, Physics
- 1999-02 **Co-Organizer and Editor, European School of High-Energy Physics** Slovakia, 1999; Portugal, 2000; Switzerland, 2001; Greece, 2002
- 1998-04 **Member, Particle Data Group**. Head of Extra Dimensions and Axion sections of RPP. Supersymmetry team member. Review co-author
- 1997-02 **McGraw-Hill Encyclopedia of Science and Technology**. Contributor

### Major Public Outreach Activities

- 2009-10 **UNIQ Summer School**: Lectures for less advantaged high-school students
- 2005-09 **Sutton Trust Lectures for Schools**: for less advantaged high-school students
- 2003- **Public Talks**: Science Oxford; Oxford Department of Continuing Education; Slowfall Project; Pulse Project; Gulbenkian Foundation
- 2003-05 **Arts Council of England/Arts and Humanities Research Board, Art-Science Fellowship**. 36,000GBP joint award with artist Paola Pivi
- 2001-03 **Three Short Films/Documentaries** on science and the humanities, with film-maker Ken McMullen and writer and art critic John Berger
- 2000-03 **Signatures of the Invisible**, art–science collaboration. Work with artists Silvie Blocher, Paola Pivi, Ken McMullen, and writer John Berger.
- 2001 **Museum of Contemporary Art, Beijing**. Collaborative work with Ken McMullen and Ian Sexton. Prize for outstanding exhibit
- 2000-01 **British Association for the Advancement of Science**. Plenary speaker, Royal Geographical Society, London, 2000, and Glasgow University, 2001
- 2000 **Centro per le Arti Contemporanee, Rome**. Collaborative work with Paola Pivi and Martin Creed. Part of the permanent collection
- 1997- **Advisor & contributor**: BBC Science Unit; Physics World; UK & US Newspapers