

## CURRICULUM VITAE

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### EDUCATION:

Stanford University  
Ph.D. in Physics, January 1990

Carnegie-Mellon University  
B.S. in Physics with University Honors  
December 1983

### EMPLOYMENT:

10/2007-Present *Professor of Physics, Head of High Energy Physics Group*  
Imperial College, London.

03/2003-02/2008 *Senior Staff Scientist*  
CERN, Geneva, Switzerland.

10/2000-10/2007 *Reader In Physics*  
Imperial College, London.

10/1993-09/2000 *Lecturer*  
Imperial College, London.

07/1992-09/1993 *Research Assistant*  
Imperial College, London.

03/1990-06/1992 *Scientific Associate*  
CERN, Geneva, Switzerland.

### RESEARCH:

11/2002-Present *CMS*  
Management and coordination roles:  
Project Manager Upgrades (2008-2011),  
Chair SLHC Upgrade Steering Group (2005-2008)  
Electronics Coordinator (2005-2008),  
ECAL Electronics Coordinator (2003-2006),  
Group Leader CERN Electronics group (2005-2008),  
Member Steering Committee (2005-2008),  
Member Management Board (2005-2011),  
Member XEB (2010-2011).

- 11/1993-10/2004 *BaBar – SLAC B Factory*  
 Coordinator Calorimeter Electronics: leadership of project from initial design through funding, construction, installation, commissioning.  
 Chair of internal review on Sin2Beta publication,  
 UK member of executive board.  
 Students' thesis topics: calorimeter reconstruction and simulation, B to s gamma, measurement of  $V_{ub}$ .
- 03/1990-10/1997 *ALEPH – LEP*  
 Electronics for Si Vertex detector upgrade, readout of LEP Beam Orbit Monitors for ALEPH, ALEPH contact with LEP.  
 Physics topics: Muon asymmetry and cross-sections, W Mass.  
 Students: measurement of  $R_b$ , search for R parity violating SUSY.
- 10/1984-03/1990 *Mark II at SLC and PEP*  
 Energy measurement for SLC beams, calibration of SLC beam spectrometer, scintillators for calorimeter gap coverage, HV system for drift chamber, software for De/Dx measurement in the drift chamber.  
 Analysis: Mass and width of the Z.
- 01/1984-08/1984 *PEP 9*  
 Radiation damage to BGO crystals, operation of BGO crystals in PEP.
- PEER REVIEW :
- 03/2011-Present *Scientific advisor to UK CERN council delegation.*
- 03/2008-03/2011 *Chair of Governing Board for SLHC-PP FP7 project.*
- 07/2007-08/2011 *Chair UK STFC Particle Physics, Astronomy, and Nuclear Physics Science Committee – (from 7/09) and Deputy Chair(7/07-7/09). This committee oversees strategic planning and prioritization for the Particle Physics, Astronomy, and Nuclear Physics elements of the STFC's programme.*
- 04/2006-12/2007 *UK PPARC Council Member – Scientific member of the council. Participated in the working groups formed to discuss the advisory structure for the STFC.*
- 09/2003-04/2007 *UK PPARC Science Committee – prioritization and strategic planning for the science program of PPARC.*
- 07/2000-02/2003 *CERN LHCC – International committee for peer-review of the experiments at the LHC. Referee for CMS.*
- 10/1997-10/2000 *UK Particle Physics Grants Committee*  
 Committee to evaluate and award research grants to all UK High Energy Physics groups.