

1 Personal

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2 Academic

2.1 Academic career

- **1987 Licenciatura in Mathematics branch of scientific specialization in Pure Mathematics, Faculty of Science, University of Porto**
(four year degree in Mathematics/Theoretical Mathematics).
- **1985/91 1985/87 - Supervision** of classes in ‘**Theory of Manifolds**’ final year option course for the Mathematics degree in the University of Porto. 1986/91 - Teacher of Mathematics in High School at Porto.
- **1990/91 Research in Optics and its applications** supervised by **Prof. José R. Salcedo** at Faculty of Science, University of Porto.
- **1991 Licenciatura in Physics and Applied Mathematics, majoring in Astronomy, Faculty of Science, University of Porto**
(four year degree in Physics and Applied Mathematics).
- **1992 Master of Science in Astrophysics Degree, Department of Mathematics, Queen Mary and Westfield College, University of London.**
MSc supervisor: **Prof. Peter Coles**
- **1997 Doctor of Philosophy, PhD., in the University of Cambridge, Physics Department, MRAO, and Downing College, UK.**
Research undertaken in the Radio Astronomy Group of the Cavendish Laboratory in the University of Cambridge in Cosmology.
PhD supervisor: **Prof. A.N. Lasenby**
Thesis title: ‘**Comparison of Microwave Background Predictions and Observations**’.
- **1997 Postdoctoral Fellow in the Department of Physics, Kansas State University, USA.**
Collaborator: **Dr. Bharat Ratra**
- **1998 Postdoctoral Fellow at the Center for Astrophysics of the University of Porto (CAUP), Portugal.**
Collaborators: **Dr. Pedro Pina, Dr. Carlos Martins, Dr. Pedro Viana**
- **1998 Invited Lecturer** for fourth-year course on ‘**Extragalactic Astronomy**’ (option in Astronomy) for the Physics and Applied Mathematics degree, University of Porto
- **1999 Lecturer** of post-graduate course on ‘**Comparison of Microwave Background Predictions and Observations**’, held at CAUP, June-July, 1999.
- **2000/01 Visitor at the University of Oxford**, research on ‘Testing Cosmological models with the Cosmic Microwave Background Radiation’, in collaboration with **Prof. J. Silk, Dr. Pedro Ferreira** at Physics department of the University of Oxford; **Dr. João Magueijo** at Imperial College, University of London; **Prof. A.N. Lasenby, Dr. Mike Hobson** at Cavendish laboratory, University of Cambridge.

- **Since 2001 Research Associate** at the Center for Astrophysics of the University of Porto (CAUP), Portugal.
- **Since 2000 Academic Visitor at the University of Oxford**, Astrophysics group.
- **Since October 2001 Leverhulme Postdoctoral Fellow at the Cavendish Astrophysics Group, University of Cambridge, UK.** The Cambridge Leverhulme Quantitative Cosmology group is a collaboration between the Institute of Astronomy, the Cavendish Astrophysics and DAMTP Cosmology groups, all within the University of Cambridge. Collaborators: **Dr. Mike Hobson, Dr. Anthony Challinor, Prof. Anthony Lasenby**, among others.
- **2004/5 Lecturer** of a graduate course on '**The Cosmic Microwave Background and Structure Formation**', at the Cavendish Astrophysics Group, University of Cambridge.
- Currently **PhD Supervisor** of **Sarah Smith** and **Nutan Rajguru** at the Cavendish Astrophysics Group, University of Cambridge.

2.2 Other Teaching experience

- **1994** College supervisor for the course ‘**Part IA Elementary Mathematics for Biologists**’, New Hall, University of Cambridge.
- **2002** College supervisor for the course ‘**Mathematical Tripos Part IB, Electromagnetism (O5)**’, Queens, Pembroke, Magdalene and Jesus College, University of Cambridge.
- **Since 2002 External Interviewer** for Undergraduate Mathematics Admissions for Magdalene College.
- **2003** College supervisor for the course ‘**Mathematical Tripos Part IB, Introduction to Special Relativity (P6a)**’, Downing and Magdalene College, University of Cambridge.

2.3 Other Research experience

- **1999** Member of the Scientific Organizing Committee of the ‘International Conference on Modern Theories of Structure Formation’, held in Porto, CAUP, September 13-18, 1999.
- **Since 1999** Element of the ‘**CMBNET: Cosmic Microwave Background Network in Europe for Theory and Data Analysis**’ within the European V-framework, as member of the ‘**Cambridge Planck Analysis Center**’, CPAC.
- **2000** Member of the Local Organizing Committee of the CMBNET meeting, held at Oxford, first week of December 2000.
- **Since 2001** Member of the ‘**Cambridge Planck Analysis Center**’, CPAC, as an Associate of the current working group. Planck satellite is a mission of ESA’s Horizon 2000 Scientific program designed to image the anisotropies of the Cosmic Microwave Background (CMB) radiation over the whole sky. I am also a member of several Planck Technical Working groups (**WG1.7**, **WG4.1** and **WG4.3**, etc.).
- **Since 2002** Member of the Planck project team in the **HFI** as **DPC** (data processing), **ScS** (Scientific support) and **Coll** (Collaborator).
- **2002** Co-organizer of a **JENAM** (Joint European National Astronomical Meeting) 2002 workshop ‘**The Cosmology of Extra Dimensions and Varying Fundamental Constants**’, held at Porto on September 3-5.
- **Referee** for the Monthly Notices of the Royal Astronomical Society Journal (MNRAS).
- **Referee** for the Modern Physics Letters A (MPLA).
- **Scientific consultant** for the Scientific and Technical Translation to Portuguese Prize Award eg. on the book ‘**The Elegant Universe**’ by **Brian R. Green** translated from english to portuguese by **Jão Pimentel** and **Ricardo Schiama**.
- **Organizer** of the ‘**Cambridge Cosmology and Astrophysics Lunch**’ held weekly at DAMTP, Cambridge.
- **Team member** of research projects funded by **FCT, Portugal**.

3 Scholarships

- **Leverhulme Fellowship** for research in the University of Cambridge.
- **FCT Postdoctoral Fellowship** (by the Foundation for Science and Technology (FCT)) for research at the Center for Astrophysics of the University of Porto (CAUP).
- **NSF Postdoctoral Fellowship** (NSF grant with matching support from the State of Kansas and from a K*STAR First award) for research in the Kansas State University.
- **JNICT PhD scholarship** for research in the University of Cambridge.
- **JNICT MSc scholarship** for research in the University of London.
- **JNICT scholarship** for research in optics and its applications, 1990-91, in the University of Porto.