

# Curriculum Vitae



**Current position:** Lecturer, School of Physics, University of Exeter  
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## Experience

- 2007 – Lecturer in Astrophysics, School of Physics, University of Exeter.
- 2004 – 2007 PPARC Postdoctoral Fellow, Institute of Astronomy (IoA), University of Cambridge.
- 2001 – 2004 PhD Student, IoA, Cambridge.
- 2001 Young Graduate Trainee, ESTEC, European Space Agency (ESA), The Netherlands.
- 2000, 1998 Research Assistant, IoA, Cambridge.

## Education

- 2005 Doctor of Philosophy, University of Cambridge & Corpus Christi College.  
 Thesis title: *Planetary transits and stellar variability*.
- 2000 MSci in Physics, Imperial College of Science, Technology and Medicine, London (1<sup>st</sup> class honours)  
 Msci project: *Tidal energy with no underwater moving parts*.
- 1996 Scientific Baccalaureate, Lycée Pierre de Fermat, Toulouse, France (mention très bien).

## Research interests

- 2004 – Binarity and environments of young low mass stars.
- 2001 – Ground- and space-based detection and characterisation of transiting extra-solar planets.
- 2001 – Characterisation and modeling of stellar variability.

## International collaborations

- 2004 – Founder and Co-PI of the Monitor project (search for occultations and rotation periods in young open clusters). PI of numerous observing programs on PATT, NOAO and ESO telescopes.
- 2004 – Member of the SuperWASP Science Consortium (ground-based search for planetary transits).
- 2001 – Co-I of the CoRoT space mission (space-based search for planetary transits); PI of additional programs on stellar variability.
- Other Member of several ground-based transit search programs (UNSW, ASTEP) and of the ISSI working group on planetary transits.

**Teaching and supervision**

- 2007 – Tutoring of stage 2 physics undergraduates.
- 2007 – Supervision of one PhD student
- 2006 Settign and marking of first year PhD student essays
- 2005 – Supervision of several Mphys and summer students.
- 2002 – 2005 Tutoring of stage 3 astronomy undergraduates.

**Outreach**

- 2005 – Public lectures in Cambridge and Exeter on the search for extra-solar planets.
- 2003 – 2004 Researcher in residence at Parkside secondary school, Cambridge
- 1999 Internship at the Exploratorium (museum of science, art and human perception) in San Francisco.

**Other**

- 2007 SOC, Michelson Science Centre summer workshop: *Planetary transits*, July 23–27, NASA Ames
- 2006 LOC, *The planet-disc connection*, 17–21 July, IoA, Cambridge
- 2003 Co-editor, proceedings of the 2<sup>nd</sup> *Eddington Workshop: Stellar Structure and Habitable Planet Finding* (ESA-SP 538, 2004).
- 2002 – 2004 Organisation of inter-disciplinary seminars on extra-solar planets in Cambridge.
- 2002 – 2003 Organisation of the weekly meetings of the IoA's stellar population group.

**Professional affiliations**

- 2004 – Member of the Royal Astronomical Society.

**Grants and awards**

- 2004 – 2007 Postdoctoral Fellowship, UK Particle Physics and Astronomy Research Council (PPARC).
- 2001 – 2004 Studentships from PPARC, the Isaac Newton Trust and the Cambridge European Trust.
- 1999 Studentship from the Worshipful Company of Scientific Instrument Makers.

**Skills**

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|------------------------|---|
| Observations           | Wide-field imaging, multi-fibre spectroscopy.   |
| Data analysis          | Production of light curves, treatment of systematics in large datasets, detection of variable stars and planetary transits, detailed analysis of stellar spectra. |
| Scientific programming | IDL, Fortran, C, IRAF, Perl   |
| Other software         | LaTeX, HTML, PHP, Microsoft Office, OpenOffice, iWorks  |
| Languages              | Bilingual French – English; spoken German and Spanish.  |

**Hobbies**

Literature, mountaineering and climbing, martial arts, music (flute).