Christopher A. Hales

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RESEARCH INTERESTS

- Radio-astronomy and polarisation
- Cosmic magnetism
- Neutron stars
- Spacecraft engineering

EDUCATION

2008 – **Doctor of Philosophy**
The University of Sydney & CSIRO's Australia Telescope National Facility
Research Area: *Radio Polarisation and the Origin of Galactic and Intergalactic Magnetic Fields*
Supported by a Commonwealth APA and a CSIRO OCE scholarship

2006 – 2007 **Bachelor of Science (Physics), First Class Honours**
The University of Sydney
Honours Project: *Cosmic Forensics: A Study of the Pulsar Wind Nebula G359.23-0.82, "The Mouse"*

2001 – 2005 **Bachelor of Aerospace Engineering, First Class Honours** and **University Medal**
University of New South Wales
Honours Project: *Design and Manufacture of Integrated BLUEsat Structure* (~14kg microsatellite)
Participated in a one-year exchange program with **Purdue University, USA**

SELECTED AWARDS

2008 **Bok Prize, Astronomical Society of Australia**

2007 **Henry Chamberlain Russell Prize, The University of Sydney**

2006 **Undergraduate Space Thesis Prize from The National Committee on Space Engineering, Engineers Australia**

2004 **Warwick Slade Royal Aeronautical Society Prize**

SELECTED RESEARCH EXPERIENCE AND EMPLOYMENT

2008 – **Postgraduate Teaching Fellow**
School of Physics, The University of Sydney
Level A (Associate Lecturer)

2008 **Invited Judge, Australian Space Design Competition Finals**
St Lucia Campus, University of Queensland

2007 – 2008 **Orbital Operations Analyst, Satellite Engineering**
Belrose Satellite Earth Station, SingTel Optus

2007 – **Visiting Fellow, BLUEsat Microsatellite Project**
School of Electrical Engineering and Telecommunications, University of New South Wales

2003 **Summer Undergraduate Research Fellowship**
Department of Aeronautics and Astronautics, Purdue University, USA
Research Project: *Mechanical versus Wear Properties of Carbon-Carbon Composite Disk Brakes*

PUBLICATIONS

Search for my refereed astronomy publications at http://www.adsabs.harvard.edu/abstract_service.html . Further details about my research can be obtained from my website (see address at top of page), or by contacting me.