

Curriculum Vitae - Dr. Gavin Peter Rowell

Nationality: Australian

Address:

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Career Overview:

- (2014 - cont) Level-D Assoc. Professor (continuing) University of Adelaide
- (2012 - cont) Level C Senior Lecturer (continuing), The University of Adelaide
- (2011 - 2012) Level C Senior Lecturer/Senior Research Associate, The University of Adelaide
- (2006 - 2011) QE-II Research Fellow, The University of Adelaide
- (2002 - 2006) Max Planck Research Fellow, Max Planck Institut für Kernphysik, Heidelberg, Germany
- (2000 - 2002) von Humboldt Research Fellow, Max Planck Institut für Kernphysik, Heidelberg, Germany
- (1997 - 1999) JSPS Fellow, Institute for Cosmic-Ray Research, Tokyo, Japan
- (1995 - 1997) Research Scientist (Infrared surveillance specialist), DSTO, Adelaide
- (1991 - 1996) Ph.D, High Energy Astrophysics Group, The University of Adelaide
- (1987 - 1991) BSc. & Hons (1st Class) Experimental & Theoretical Physics, The University of Adelaide

Research Activities Overview:

- High energy astrophysics and astroparticle physics.
- Gamma-ray astronomy from \sim GeV to multi-TeV energies with the HESS, CTA and Fermi-LAT facilities
- The origin of cosmic-rays and electrons (focus on galactic astronomy).
- Studies of supernova remnants, massive stellar clusters, pulsars, unidentified gamma-ray sources, pulsar-wind-nebulae, gamma-ray bursts, transient sources
- Cosmic-ray and gamma-ray production, transport and absorption.
- Radio mm-wave studies of the interstellar medium towards high energy sources.
- Design and development of new ground-based gamma-ray telescopes.
- Data analysis techniques in ground-based gamma-ray astronomy.

Research Publications and Impact:

- Published over 200 refereed papers since 1990 with over 14,000 citations.
- Hirsch index or H-index of 65 according to NASA Astrophysical Data System (adsabs.harvard.edu)
- Over 10 invited and/or keynote talks at conferences since 2001.
- 2010: Bruno Rossi Prize awarded to the HESS Collaboration for contributions to our understanding of supernova remnants, pulsar nebulae and active galaxies (<http://www.aas.org/head/index.html>)
- 2009: HESS is ranked in the top ten list of high-impact astronomical facilities in the world (ref: Madrid & Macchetto 2009 Bulletin American Astronomical Soc., v41, No.2: preprint arXiv:0901:4552)
- 2006: European Union Decartes Prize awarded to the HESS Collaboration (http://www.aspera-eu.org/index.php?Itemid=98&id=149&option=com_content&task=view)

Teaching and Supervision:

- 1st year physics: Physics for Life and Earth Sciences (since 2011)

- 2nd year physics: Space Science and Astrophysics (since 2011)
- Honours: Advanced Astrophysics lectures (cosmic-rays, gamma-rays, interstellar medium), The University of Adelaide (2006-present)
- 1st year Physics, Principles and Applications (Thermal Physics), The University of Adelaide (2008, 2009)
- Undergraduate Student Supervision: Mirror quality control measurement laboratory, Max Planck Institute for Nuclear Physics, Germany (2000-2004)
- Currently supervising 4 PhDs, 3 MPhils, 2 Hons students
- Five PhD and one students completed since 2008

Major Research Grants - Total \$3800k:

- 2017-2021 \$1390k ARC Linkage Infrastructure LE170100104 CI: Rowell, et al.
- 2016-2016 \$150k ARC Linkage Infrastructure LE160100094 CI: Burton,..Rowell et al.
- 2015-2015 \$270k ARC Linkage Infrastructure LE150100070 CI: Rowell, Burton et al.
- 2012-2014 \$315k ARC Discovery DP120100158 CI Burton, Rowell
- 2012-2016 \$750k ARC Linkage Infrastructure LE120100158 CI:Burton, Rowell, Dawson et al.
- 2011-2011 \$150k ARC Linkage Infrastructure LE110100038 CI:Burton, Rowell, Dawson et al.
- 2010-2012 \$130k ARC Discovery DP1096533 CI:Rowell, Dawson
- 2006-2011 \$657k ARC Discovery DP0662810 CI:Rowell (QE-II Fellowship)

Selected Committee Memberships:

- 2016 - 2018: Member National Committee for Astronomy (under auspices of the Australian Academy of Science)
- 2011 - 2014: Elected member of the Council of the Astronomical Society of Australia (<http://asa.astronomy.org.au/>)
- Since 2011: Member of The University of Adelaide IPAS (Institute for Photonics and Advanced Sensing) Science Management Committee
- 2011 - 2016: The University of Adelaide representative for Astronomy Australia Ltd. (<http://astronomyaustralia.org.au/>)
- 2011: Chairperson of the Scientific and Local Organising Committees for the Astronomical Society of Australia Annual Scientific Meeting 2011, Adelaide (<http://www.physics.adelaide.edu.au/astrophysics/asa2011/>)
- 2009 - 2010: Australian Telescope National Facility (ATNF): Time Allocation Committee (TAC) "Reader" assisting the TAC in assessing radio astronomy proposals for the various radio telescopes operated by ATNF.
- 2009: Scientific Organising Committee member for the Astronomical Society of Australia Annual Scientific Meeting 2009, Melbourne (http://asa2009.science.unimelb.edu.au/Site/Home_Page.html)

Outreach:

- 2011: Plenary talk 'AstroFest - Promoting Physics Careers Through Astronomy' The Australian Conference on Science and Mathematics Education, Melbourne (<http://sydney.edu.au/iisme/conference/2011/index.shtml>)
- Since 2009: Participation in The University of Adelaide 'Open Days'
- 2009: Joint organiser of 'AstroFest 2009' outreach event (<http://www.physics.adelaide.edu.au/aip-sa/astrofest.html>)
- 2009: Invited talks at SA Primary and Secondary School teacher annual conferences
- Annual supervision of SA high school work experience students (2007-present)
- Siemens Science Summer School lecture (2007)