

Graça Rocha

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Experience

Member of the Cambridge Planck Analysis Center (CPAC) 2001 – 2005

Planck Team member 2002 – present

Planck Scientist 2006 – present

Coordinator of four *Planck* Core Areas:

- *Planck* Compact Source Investigation, CSI, Collaboration, 2006 – 2009
- *Planck* Core Working area on Power Spectrum and Likelihoods for the first few years and Coordinator of the same Core area at JPL, 2006 – present
- Leader of *Planck* Working Group on Fundamental Physics: constraining time and space variations of Fundamental Constants, 2009 – present
- Leader of *Planck* Working Group on Variability of Planck Point Sources, 2006 – present

Member of the BICEP1 Collaboration, 2005 – 2009

Member of the Colloquium panel of the Astrophysics and Cosmology Colloquia Sessions at JPL, 2012 – present

Member of the International Astrostatistics Association, IAA, 2014 – present

Member of the COsmostatistics INitiative COIN, 2016 – present

Member of PICO: a NASA Probe-class space mission study, 2017 – 2018

Chair of PhysPAG, 2020-2021 and Co-Chair of PhysPAG, 2017 – 2020

Co-Chair of IP SIG and COS SIG, 2017 – 2020

Co-Lead of a KISS, study and workshop with title: *Designing Future CMB Experiments* held at Keck Institute, Caltech, March 2018

Main Scientific organizer, MSO of a COSPAR session with title: *Knocking on heaven's door: CMB in pursuit of the footprint of Inflation*, held in Pasadena, CA, USA, July 2018

Associate Editor in *Frontiers in Astronomy and Space Sciences* -- Section of Astrostatistics, 2020 – present

Education

Licenciatura, Mathematics (Pure Maths), University of Porto, Portugal, 1987

Licenciatura, Physics & Applied Maths, Astronomy, University of Porto, Portugal, 1991

MSc, in Mathematics, QMW, University of London, UK, 1992

PhD. in Physics, MRAO, and Downing College, University of Cambridge, UK, 1997

Employment

Staff Research Scientist, in Astrophysics and Space Sciences Section (Org. 326) JPL, 2009 – present

Group Supervisor of the Origin of the Universe Group (Org. 3268), 2019 – present

Discipline Program manager (DPM), PCOS related A&R (7X), 2020 – present

Group Supervisor of the 'Evolution of Galaxies' group at JPL, Caltech, 2011 – 2012

Staff Scientist, Infrared Processing and Analysis Center, IPAC, Caltech, 2006 – 2009

Visiting Associate at Caltech, Physics, Math & Astronomy Department, 2016 – present
Visiting Scholar at Caltech, Physics, Math & Astronomy Department, 2006 – 2016
Leverhulme Postdoctoral Fellow, University of Cambridge, UK, 2001 – 2005
Lecturer on `Theoretical Cosmology, U. of Cambridge, 2004 – 2005
Postdoctoral Scholar in Physics, Observational Cosmology Group, Caltech, 2005
Academic Visitor, University of Oxford, 2000 – 2001
Collaborator at CAUP, U. of Porto, Portugal, 2001 – present
Postdoctoral Fellow, CAUP, U. of Porto, Portugal; 1998 – 2001
Invited Lecturer, U. of Porto, 1998
Postdoctoral Fellow, Department of Physics, KSA, USA, 1997

Honors

Honors: 2019 Giuseppe and Vanna Cocconi Prize to Planck and WMAP; Marcel Grossman Institutional Award to the Planck Scientific Collaboration; 2018 Gruber Prize in Cosmology awarded to the Planck team and its Principal Investigators Nazzareno Mandolesi and Jean-Loup Puget; Royal Astronomical Society's 2018 Group Achievement Award to Planck mission.

NASA Awards: NASA Exceptional Achievement Medal for the work on Planck Data Analysis, 2014; Early Release Compact Source Catalogue Team - Group Achievement Award, 2011; Planck Data Analysis and Operations Support Team - Group Achievement Award, 2011; Herschel & Planck Projects Teams - Group Achievement Honor Award, 2011; BICEP Experiment Team - Group Achievement Award, 2009; Planck Data Analysis Pipeline Development Team - Group Achievement Award, 2009; Planck Data Analysis Team - Group Achievement Award, 2009

JPL awards: Mariner Award - Bonus Award, 2013; Mariner Award - Bonus Award 2012; Planck Effective Beamshape Team - Team Bonus Award, 2011; Certificate of Recognition for 5 years of service to JPL, 2010

Selected publications

Hancock S., Rocha G. et al., MNRAS, **294**, L1-L6, 1998
Rocha et al., MNRAS, **352**, 887-902, 2004
Carvalho P., Rocha G., et al., MNRAS **393**, 681-702, 2009
Rocha et al. 2011, MNRAS **414**, 823-846, 2011
Carvalho P., Rocha G., et al., MNRAS **427**, 1384-1400, 2012
Mitra S., Rocha G., et al., ApJ Supp **193**, 5, 2011
Iyer et al., ApJ **823**, 1091, 2016
Lacy, Mark et al., MNRAS, **438L**, 22L, 2019
Planck Papers, 2009, 2011, 2013, 2015, 2018
<https://www.cosmos.esa.int/web/planck/publications>
From SAO/NASA ADS record of publications:
Total number of publications (incl. Science White Papers): 281
Number of citations: 48662; h-index: 91