

Paul James Wright

CONTACT INFORMATION	Rm 614, Kelvin Building University of Glasgow Glasgow, G12 8QQ United Kingdom	Work: +44 (0)14133 08855 Web: www.pauljwright.co.uk Email: paul.wright@glasgow.ac.uk Publication List: SAO/NASA ADS
RESEARCH INTERESTS	My interests range from stellar to solar physics; my main interests lie in the heating of the solar atmosphere, including active regions and loops. I have expertise in analysis of data from <i>SDO/AIA</i> , <i>Hinode/XRT</i> , <i>Hinode/EIS</i> , and <i>NuSTAR</i> .	
EDUCATION	University of Glasgow , Glasgow, UK Ph.D. Solar Physics Thesis Topic: <i>The Energetics of Small Flares and Brightenings</i> Advisers: Dr Iain G. Hannah, Dr Alexander MacKinnon	2014 – present
	University of Southampton , Southampton, UK MPhys Astrophysics with a year abroad First class honours (1:1) Adviser: Professor Malcolm Coe	2010 – 2014
	Harvard University/Harvard-Smithsonian CfA , Cambridge, MA MPhys Astrophysics with a year abroad Thesis Topic: <i>Superflare Rates of Solar-Like Stars</i> Advisers: Dr Steven H. Saar, Dr Jeremy J. Drake	2013 – 2014
ACADEMIC APPOINTMENTS	Post-Graduate Research Assistant , University of Glasgow SUPA School of Physics and Astronomy Project: <i>The Energetics of Small Flares and Brightenings</i> <ul style="list-style-type: none">Analysed observations of the Sun with <i>NuSTAR</i>, a telescope not designed for helio-physics. These observations are the most sensitive of their kind and have resulted in numerous, wide-ranging highly-collaborative peer-reviewed publications.Analysed non-flaring coronal time-series in order to extract signatures of the coronal heating mechanism. Techniques included Fourier analysis, Wavelet analysis, and Local Intermittency Measure.Studied the temperature distribution of the solar atmosphere through the recovery of an ill-posed inverse problem using techniques such as Tikhonov Regularization, Markov-Chain Monte Carlo, and Sparsity. Collaborators: <i>Iain Hannah, Alec MacKinnon, Hugh Hudson</i>	2014 – 2017
	Visiting Researcher , NASA Goddard Space Flight Center (GSFC) Heliophysics Science Division <ul style="list-style-type: none">Worked on the possibility of implementing DEM maps in the Helioviewer project, and their usefulness as an input for various established analysis techniques. Collaborators: <i>Nicholeen Viall, Jack Ireland</i>	2016
	Research Scholar , Harvard-Smithsonian Center for Astrophysics (CfA) Solar and Stellar X-Ray Group <ul style="list-style-type: none">Designed and implemented a sophisticated stellar flare detection routine for long-cadence (30 mins) <i>Kepler</i> data. This work has had coverage by Science, and The Smithsonian Magazine. Collaborators: <i>Steven Saar, Søren Meibom, Jeremy Drake, Vinay Kashyap</i>	2013 – 2014

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REFEREED JOURNAL PUBLICATIONS

- [1] Marsh, A. J., Smith, D. M., Glesener, L. *et al* 2017. *First NuSTAR Limits on Quiet Sun Hard X-Ray Transient Events*, *ApJ* (in revision)
- [2] Wang, J., Simões, P. J. A., Jeffrey, N. L. S. *et al* 2017. *Observations of Reconnection Flows in a Flare on The Solar Disk*, *ApJL*, 847, L1
- [3] **Wright, P. J.**, Hannah, I. G., Grefenstette, B. W., *et al* 2017. *Microflare Heating of a Solar Active Region Observed with NuSTAR, Hinode/XRT, and SDO/AIA*, *ApJ*, 844, 132
- [4] Kuhar, M., Krucker, S., Hannah, I. G., *et al* 2017. *Evidence of Significant Energy Input in the Late Phase of a Solar Flare from NuSTAR X-ray Observations*, *ApJ*, 835, 6

FIRST AUTHOR PUBLICATIONS IN PREPERATION

- [5] **Wright, P. J.**, Hannah, I. G., Viall, N. M., *et al*
- [6] **Wright, P. J.**, Saar, S. H., Meibom, S., *et al*

CONFERENCES, WORKSHOPS, & SCHOOLS

Invited Oral Presentations

- ISSI Team Meeting: Coronal Nanoflares*, Bern, CH 2016
- Harvard-Smithsonian Center for Astrophysics*, Cambridge, MA, USA 2014

Oral/ePoster Presentations

- Solar Physics Division Meeting (SPD/AAS)*, Portland, OR, USA 2017
- Coronal Loops Workshop VIII*, Palermo, Sicily, IT 2017
- Living with a Star (SDO/LWS) Workshop*, Burlington, VT, USA 2016
- Hinode 10*, Nagoya, JP 2016
- National Astronomy Meeting 2016*, Nottingham, UK 2016
- Hinode 9*, Belfast, UK 2015
- Glasgow-Cambridge Flare Workshop*, Glasgow, UK 2015

Poster Presentations

- European Solar Physics Meeting (ESPM)*, Budapest, HU 2017
- Solar Physics Division Meeting (SPD/AAS)*, Portland, OR, USA 2017
- Living with a Star (SDO/LWS) Workshop*, Burlington, VT, USA 2016
- Coronal Loops Workshop VII*, Cambridge, UK 2015
- NAM 2015*, Llandudno, UK 2015
- 223rd AAS Meeting*, National Harbor, MD, USA 2014

Schools Attended

- CESRA Radio Summer School 2015*, Glasgow, UK 2015
- STFC Advanced Summer School in Solar Physics*, Dundee, UK 2014

Conferences/Workshops Attended

- NuSTAR Solar Workshop (remote participation)*, Berkeley, CA, USA 2017
- SUPA Cormack Astronomy Meeting*, Edinburgh, UK 2015
- RAS Discussion Meeting: Results from IRIS*, London, UK 2015
- SUPA Cormack Astronomy Meeting*, Edinburgh, UK 2014
- 1st Space Glasgow Research Conference*, Glasgow, UK 2014

AWARDS AND GRANTS TOTAL: £7000

SUPA School of Physics and Astronomy, University of Glasgow

- Solar Physics Division Meeting (SPD/AAS) Student Poster Award* 2017
- Solar Physics Division Meeting (SPD/AAS) Studentship Award* 2017
- Coronal Loops Workshop VIII Travel Award* 2017
- National Astronomical Observatory of Japan Travel Award* 2016
- Hinode 9 Travel Award* 2015
- European Space Agency/Cambridge Philosophical Society Travel Award* 2015

	School of Physics and Astronomy, University of Southampton	
	Research Scholarship	2013
	Summer Studentship Grant	2013
COMMUNITY INVOLVEMENT	Nature Communications , Reviewer	2017 – present
	CESRA Radio Summer School , Volunteer Organiser	2015
SCIENTIFIC OUTREACH	Glasgow Science Centre , Demonstrator	2016
	British Science Week , Demonstrator	2016
	Institute of Physics: <i>Women and Girls in Science</i> , Demonstrator	2016
	Scottish Television (STV) , Guest Presenter	2015
	World Wide Telescope , Ambassador	2013 – 2014
	BBC Stargazing Live , Demonstrator	2013
	So'ton Astrodome , Demonstrator	2012
	BBC Bang Goes The Theory Roadshow , Demonstrator	2012
TEACHING	University of Glasgow	
	Astronomy 1 Tutorial Demonstrator	2016 - 2017
	Supervised students, and marked first year astronomy problem sets.	
	Physics Pre-University Summer School	2015
	Engaged students in various physics experiments and marked assignments.	
	Astronomy 3/4 (Honours) Laboratory Demonstrator	2015 - 2016
	Demonstrated, supervised, and marked a number of final-year research projects covering topics such as asteroid light curves, and solar limb darkening.	
MEMBERSHIPS	NuSTAR Heliophysics Working Group , Member	2015 – present
	International Space Science Institute (ISSI) , Young Scientist Member	2015 – present
	Member of Paola Testa's ISSI Team: <i>New Diagnostics of Particle Acceleration in Solar Coronal Nanoflares from Chromospheric Observations and Modeling</i>	
	Royal Astronomical Society , RAS Fellow	2014 – present
MORE INFORMATION	More information and auxiliary documents can be found at http://www.pauljwright.co.uk , on ResearchGate, and GitHub.	