Paul James Wright

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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. Currently I am gaining expertise in analysis of data from *SDO*/AIA, *Hinode*/XRT, *Hinode*/EIS and *NuSTAR*.

Education

University of Glasgow, Glasgow, UK — 2014 – present
Ph.D. Solar Physics
Thesis Topic: *The Energetics of Small Flares and Brightenings*
Advisers: Dr Iain G. Hannah, Dr Alexander MacKinnon

University of Southampton, Southampton, UK — 2010 – 2014
MPhys Astrophysics with a year abroad
First class honours (1:1)

Harvard University/Harvard-Smithsonian CfA, Cambridge, MA — 2013 – 2014
MPhys Astrophysics with a year abroad
Thesis Topic: *Superflare Rates of Solar-Like Stars*
Advisers: Dr Steven H. Saar, Dr Jeremy J. Drake

Current Academic Appointment

Post-Graduate Research Assistant, University of Glasgow — 2014 – present
SUPA School of Physics and Astronomy
Project: *The Energetics of Small Flares and Brightenings*

Previous Academic Appointments

Visiting Researcher, NASA Goddard Space Flight Center (GSFC) — 2016
Heliophysics Science Division
Collaborators: *Nicholeen Viall, Jack Ireland*

Research Scholar, Harvard-Smithsonian Center for Astrophysics (CfA) — 2013 – 2014
Solar and Stellar X-Ray Group
Designed and implemented a sophisticated stellar flare detection routine for long-cadence (30 mins) *Kepler* data.
Collaborators: *Steven Saar, Søren Meibom, Jeremy Drake, Vinay Kashyap*

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* (in prep)

[6] Wright, P. J., Saar, S. H., Meibom, S., *et al* (in prep)

Select Awards

Solar Physics Division Meeting (SPD) Studentship Award — 2017
Cumulative total of Awards and Grants: £7000

Select Memberships

International Space Science Institute (ISSI), Young Scientist Member — 2015 – present
Member of Paola Testa's ISSI Team: *New Diagnostics of Particle Acceleration in Solar Coronal Nanoflares from Chromospheric Observations and Modeling*