



The
University
Of
Sheffield.

School of
Mathematics
and Statistics

Department of
Automatic Control and
Systems Engineering

UoS PhD Studentship!

A University of Sheffield **PhD studentship** is available at the Solar Physics and Space Plasma Research Centre (SP²RC) that spans across the School of Mathematics and Statistics and the Department of Automatic Control and Systems Engineering, in the following areas:

- Helioseismology of the Sun
- Magnetoseismology of the solar atmosphere (from spicules to corona)
- General MHD wave theory with astrophysical applications
- MHD wave observations and Solar Magneto-Seismology
- Numerical modelling (HPC and GPU computing) of wave processes in the solar atmosphere
- Heating of the solar atmosphere: waves, reconnection, etc.
- Novel joint ground-based and satellite observations of the Sun and Sun-Earth system
- Analysis of ionospheric perturbations: Application to Climate prediction and natural hazard risk assessment
- Energy transfer mechanisms in the Sun-Earth system
- Space weather

SP²RC has a wide expertise in advanced analytical/numerical modelling and analysing high-resolution observations obtained by cutting-edge ground-based instruments and space satellites. The studentship may be supplemented by income from assistance in undergraduate tutorials.

Applications are invited from Mathematics, Physics, Engineering or Computer Sciences students who have graduated or expect to graduate with a first or upper-second class degree.

The studentship is available **from October 2017**. The screening of applications is continuous with a **closing date of 28 April 2017**. Applications after that date may also be considered until the position is filled.

For additional information, please contact:

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