

## **Curriculum Vita**

## **Prof. Lyndsay Fletcher FRSE**

### **Contact**

Prof. Lyndsay Fletcher,  
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**Area of Expertise:** Solar physics: solar flare observations and theory, solar activity.

### **Relevant Employment and Educational History**

#### **Education**

10/85 - 06/89 B.Sc. Physics & Astronomy, (Hons, 1<sup>st</sup> class), University of Glasgow  
10/89 - 12/92 Ph. D., University of Glasgow (award, July 1993)

#### **Employment**

01/93 - 01/96 Postdoctoral Researcher, Utrecht University, The Netherlands  
02/96 - 12/97 Research Fellow, European Space Agency, Noordwijk, The Netherlands  
05/98 - 03/00 Senior Physicist, Lockheed Martin Solar and Astrophysics Lab, California  
04/00 - 09/00 Postdoctoral Research Assistant, University of Glasgow  
10/00 - 01/06 Lecturer in Astronomy, University of Glasgow  
02/06 – 07/14 Reader in Solar Physics, University of Glasgow  
08/14 – present Professor of Astrophysics, University of Glasgow

#### **Selected Esteem indicators**

1999 – Lockheed Martin Advanced Technology Center Award for Technical Excellence  
2011 – Royal Astronomical Society Harold Jeffreys Lecturer  
2013 – NASA Group Achievement Award to the RHESSI Science Team  
2017 – Elected Fellow of the Royal Society of Edinburgh (Scotland's National Academy)  
2017 – 'Suffrage Science' Awardee  
2017 – Herald Scotland 'Diversity Hero of the Year'  
30 invited talks and reviews at international conferences in the last decade  
President, International Astronomical Union Commission E.2 on Solar Activity (2015 - 2018)  
Member, AURA Visiting Committee to the US National Solar Observatory (2012-13)  
Member, International Visiting Committee to the Kiepenheuer Institute for Solar Physics (2015 - )  
Member, Science Advisory Committee to the Roseland Centre of Excellence in Solar Physics (2017-

#### **Research Interests**

Solar flares: particle acceleration; observational and theoretical relationship of acceleration to coronal magnetic field restructuring; multi-wavelength flare observations; UV and EUV plasma diagnostics. Solar image processing: Simulation of flare particle transport/acceleration. Principal supervisor of 11 graduated PhD students

#### **Publications Summary**

> 100 refereed journal articles, reviews & chapters, 50 proceedings, popular articles and book reviews.

#### **Selected Research-Related Public Service Positions**

PPARC Solar System Science Advisory Panel (Sept 2004 – Aug 2007)  
Daniel K. Inouye Solar Telescope Science Working Group Member (Aug 2005 - )  
American Astronomical Society Hale and Harvey Prize Committee (2003 – 2006, Chair in 2006)  
Secretary, European Physical Society Solar Physics Division (Sep 2005 - 2011)  
Member, Editorial Board of the Journal 'Solar Physics' (2006 - 2018)  
Chair, UK Solar Physics (2007 – 2010)  
Leader, ISSI international teams on flare chromospheres (2009-2010, 2013-14)  
STFC Astronomy Grants Panel, Vice Chair (2017- ) Chair of Solar Studies (2012- 2015)  
Royal Astronomical Society Senior Secretary (2017- ), Geophysics Secretary (2011-2016)

### **Summary of Grant income > £10k**

Sept 2001 – EPSRC/CASE studentship+costs (Co-I, £18,000)  
Aug 2002 – PPARC Rolling Programme (Co-I, £512k)  
Feb 2005 – PPARC/CASE studentship + additional costs (PI £50k)  
March 2005 – PPARC Rolling Programme (Co-I, £781k)  
October 2006 – EC Marie Curie Network (Co-I, €271k)  
March 2008 – STFC Rolling Programme (Co-I, ~£1.4M)  
March 2009 – Leverhulme Grant (Co-I, £143k)  
Dec 2010 – EC FP7 “SOLAIRE” project (Glasgow PI, €304k)  
Jan 2011 – STFC Rolling Programme (PI, £1.2M)  
Oct 2013 – EC FP7 “F-CHROMA” Collaborative Grant, (PI & Co-ordinator, €2.2M)  
Nov 2013 – STFC Consolidated Grant (PI, ~£1M)  
Mar 2014 – STFC PPRP Research Grant (Glasgow PI, £42k)  
Jan 2017 – STFC Consolidated Grant (PI, ~£0.9M)

### **Teaching Activities**

#### **Postgraduate-level National and International Summer School Teaching**

PPARC/STFC Introductory and Advanced summer courses in Solar Physics, 2000, 02-09,12,14,16  
April 2002, June 2009 – ‘Solar Magnetism’ School, Dwingeloo, the Netherlands  
March 2006 – “The Physics of the Sun: The Active Sun on your Active Desktop”, L’Aquila, Italy  
July 2007 - 2015 – Culham International Summer School in Plasma Physics  
April 2014 – SOLARNET Spring School, Wroclaw, Poland  
November 2016 – F-CHROMA Winter School, Wroclaw, Poland

#### **University Teaching and Teaching-Related Positions**

2000-2004 Head of 1<sup>st</sup> year Astronomy Laboratories  
2005-2010 Head of 2<sup>nd</sup> year Astronomy  
2010-2012 Head of 1<sup>st</sup> year Astronomy  
2013-2015 Head of Honours & Undergraduate Masters Astronomy  
2016-present Chair, Astronomy Board of Examiners  
2015-2018 External Examiner Physics and Astronomy, University of Birmingham.  
*Level 1* Stellar Structure and Evolution (Utrecht University, 8 hrs); Life in the Universe (10hrs);  
The Sun and its Radiation (8 hrs); Observational Methods (8 hrs); Solar System Physics (6hrs), Stellar  
Physics (8 hours)  
*Level 2* Stars and their Spectra (10 hrs), Theoretical Astrophysics (10 hours)  
*Level 3/4* Stellar Structure and Evolution (11 hrs); Instruments for Optical and Radio (11 hrs);  
Natural and Laboratory Plasmas (11hrs), Astronomical Data Analysis (11 hours)  
*Postgrad.* Scottish Universities Physics Alliance lectures on Astrophysical Plasmas (4 hrs)

#### **Public Outreach Activity**

I am committed to engaging the public’s interest in science in general, and solar physics in particular. I give several talks per year on the Sun and Space Weather, at festivals and to amateur astronomy societies, teachers, schools and other groups. Recent events include:

- Edinburgh Science Festival, April 2012
- IOP lectures Dundee, Aberdeen (2014, 2015)
- “Festival of the Solstice”, Crawick Multiverse (2016)
- British Astronomical Association Annual Meeting, Chester (2017)
- David Elder Lectures, Glasgow Science Centre Planetarium (2018)

#### **Diversity**

Chair of successful bid for Institute of Physics ‘Juno Champion’ (2011, 2014), and Athena SWAN Silver (2012, 2016) status for Glasgow University School of Physics and Astronomy, recognising leadership in efforts to reduce underrepresentation of women in physics.

#### **Professional Affiliations**

American Astronomical Society, American Geophysical Union, Royal Astronomical Society, Royal Society of Edinburgh