## **Curriculum Vita**

#### **Prof. Lyndsay Fletcher FRSE**

#### Contact

Prof. Lyndsay Fletcher, Professor of Astrophysics,

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

#### **Education**

10/85 - 06/89	B.Sc. Physics & Astronomy, (Hons, 1st 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

02/06 – 07/14 Reader in Solar Physics, University of Glasgow
08/14 – present Professor of Astrophysics, University of Glasgow

12/18 – present Adjunct Professor, Rosseland Centre for Solar Physics, University of Oslo

#### **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'

2018 - Appointed Adjunct Professor, University of Oslo, Norway

30 invited talks and reviews at international conferences in the last decade

President, International Astronomical Union Commission E.2 on Solar Activity (2015 - 2018)

#### **Research Interests**

Solar flares: 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 13 graduated PhD students

#### **Publications Summary**

148 refereed journal articles, reviews & chapters, 57 proceedings, popular articles and book reviews. WoS h-index = 37; NASA ADS h-index = 39

### **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 (2006 - ) and Chair of Science Policy Advisory Committee (2018 - )

European Physical Society Solar Physics Division, Member (Sep 2005 - 2011)

Editorial Board of the Journal 'Solar Physics', Member (2006 - 2018)

UK Solar Physics, Chair (2007 – 2010)

International Space Science Institute Science Committee, Member (2016 - 2020)

Member, Science Advisory Committee to the Leibniz Institute for Solar Physics [KIS] (2017 - )

STFC Astronomy Grants Panel Member (2010-15); Vice Chair (2017-2019); Chair (2021-)

Royal Astronomical Society Senior Secretary (2017-), Geophysics Secretary (2011-2016)

ESA Solar System Exploration Working Group Member (2017 - 2020)

# Summary of major grants awarded > £100k, (full economic cost)

Aug 2002 – PPARC Rolling Programme (Co-I, £512k)

March 2005 – PPARC Rolling Programme (Co-I, £781k)

October 2006 – EC 'SOLAIRE' Marie Curie Network (Co-I, €271k)

March 2008 – STFC Rolling Programme (Co-I, £1.4M)

March 2009 – Leverhulme Grant (Co-I, £144k)

Dec 2010 – EC FP7 "HESPE" project (Glasgow PI, €416k)

Apr 2011 – STFC Rolling Programme (PI, £1.47M)

Oct 2013 – EC FP7 "F-CHROMA" Collaborative Grant, (PI & Co-ordinator, €2.2M)

Apr 2014 – STFC Consolidated Grant (PI, £1.14M)

Apr 2017 – STFC Consolidated Grant (PI, £0.93M)

Apr 2020 - STFC Consolidated Grant (PI, £1.29M)

Nov 2019 – Research Collaboration with the University of Oslo (PI £101k)

Apr 2020 – STFC Consolidated grant (PI, £1.65M)

Jan 2021 – UKRI Grant Extension Allocation (PI £19.5k)

April 2023 – STFC Consolidated Grant (PI, £0.58M)

Dec 2023 – Leverhulme Project Grant (Co-I, £0.22M)

# **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.

2021-present External Examiner for M.Sc. Astrophysics, Liverpool John Moore's University.

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 I & II (11 hrs each); 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:

- 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)
- British Astronomical Association Christmas Lecture (2023)

#### **Equality and Diversity**

Chair of successful bid for Institute of Physics 'Juno Champion' (2011, 2014), and Athena SWAN Silver (2012, 2016, 2019) status for Glasgow University School of Physics and Astronomy, recognising leadership in efforts to reduce underrepresentation of women in physics.

### **Professional Affiliations**

Royal Astronomical Society, Royal Society of Edinburgh, International Astronomical Union