

DURGESH TRIPATHI

Current Positions:	Scientist - G (Professor) Head, Max Planck Partner Group of MPS at IUCAA PI, Solar Ultraviolet Imaging Telescope (SUIT) on board Aditya-L1 Adjunct Scientist, Indian Institute of Astrophysics (IIA), Bengaluru Affiliate Faculty, CESSI, IISER-Kolkata
Current Address:	Inter-University Centre for Astronomy and Astrophysics, Post Bag 4, Ganeshkhind, Pune 411007, India
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RESEARCH INTEREST

Solar Physics	Coupling & Dynamics of Solar Atmosphere and Space Weather Solar Eruptions and Associated Phenomena, Solar Terrestrial Relations, Chromospheric and Coronal Heating, UV & EUV Spectroscopy, Solar Magnetohydrodynamics, Solar Stellar Connection
	Sun-Climate Relationship Variation of Solar Ultraviolet Irradiance and relationship with various magnetic and non-magnetic features
	Space Missions Currently Principal Investigator of the Solar Ultraviolet Imaging Telescope (SUIT) on board Aditya-L1 mission of the Indian Space Research Organization (ISRO). SUIT will observe the Sun within 200-400 nm using 11 different passbands, providing full disk images of the photosphere and chromosphere.

PUBLICATION SUMMARY

No of refereed papers	<i>69 (published) + 8 (in preparation)</i>
Total No of Citations & h-index	<i>2696 & 31 (Google Scholar)</i>
Google Scholar Profile	Google Scholar Profile

AWARDS AND HONOURS

2020 - continuing	Chair of the international steering committee of Coronal Loops Workshops
Jan 2019 - continuing	Member of the Editorial Board of Proceedings of Royal Society A
2018 - continuing	Elected member of the international steering committee on Coronal Loops Workshops
2017	BUTI Foundation Award in Plasma Science and Technology given biennially to a scientist under 45 years by the Physical Research Laboratory This award was given to me for my work on Coronal Physics

- 2014 - 2020 Appointed as Head of Max-Planck-Partner group of Max Planck Institute for Solar System Research at IUCAA on **Coupling and Dynamics of Solar Atmosphere**
- 2013 Group Achievement Award in Understanding the Genesis and Evolution of Coronal Mass Ejections, **Awarded by Romanian Academy of Science, Romania**
- 2010 JSPS Visiting Professorship at Kwasan and Hida Observatories Kyoto University, Japan
- 2009 - 2011 Research Fellowship at Clare Hall College, University of Cambridge, UK
- 2006 Visiting Scientist fellowship, High Altitude Observatory, National Centre for Atmospheric Research, Boulder, USA
- 2006 - 2009 Associate Membership at St. Edmunds College, University of Cambridge, UK
- 2002 - 2005 International Max-Planck-Research School Fellowship at the Max-Planck-Institute for Solar System Research, Katlenburg-Lindau, Germany
- 2002 University Gold Medal, D.D.U. Gorakhpur University, Gorakhpur, India

FACULTY APPOINTMENTS

- JUL 2019 - PRESENT | *Professor (Scientist - G)*
- JUL 2014 - JUN 2019 | *Associate Professor (Scientist - F)*
- APR 2011 - JUN 2014 | *Assistant Professor (Scientist - E)*
 Inter-University Centre for Astronomy and Astrophysics (IUCAA),
 Post Bag - 4, Ganeshkhind, Pune 411007, India
 ☎+91 20 25604 100

POST DOCTORAL APPOINTMENTS

- OCT 2009 - MAR 2011 | *Research Fellow*
 Clare Hall College, University of Cambridge,
 Herschel Road, Cambridge CB3 9AL, United Kingdom
 ☎+44 1223 332360
- NOV 2008 - MAR 2011 | *Post Doctoral Research Associate*
 Department of Applied Mathematics and Theoretical Physics (DAMTP)
 Centre for Mathematical Sciences,
 University of Cambridge, Wilberforce Road CB3 0WA, United Kingdom
 ☎+44 1223 765000

MAY-NOV 2008 | *Post Doctoral Research Associate*
Mullard Space Science Laboratory (University College London)
Holmbury St Mary, Dorking, Surrey RH5 6NT, United Kingdom
☎+44 1483 204 100

SEP 2005 - MAY 2008 | *Post Doctoral Research Associate*
Department of Applied Mathematics and Theoretical Physics (DAMTP)
Centre for Mathematical Sciences,
University of Cambridge, Wilberforce Road CB3 0WA, United Kingdom
☎+44 1223 765000

FEB 2005 - AUG 2005 | *Post Doctoral Fellow*
Max-Planck-Institute for Solar System Research
Max-Planck-Str 2, D-37191 Katlenburg-Lindau, Germany
☎+49 5556 979 0

PHD STUDENTSHIP

FEB 2002 - FEB 2005 | *Ph.D. Student*
Max-Planck-Institute for Solar System Research
Max-Planck-Str 2, D-37191 Katlenburg-Lindau, Germany
☎+49 5556 979 0

VISITING POSITIONS

SEP 2011 - PRESENT | *Adjunt Scientist*
Indian Institute of Astrophysics,
II Block, Koramangala, Bangalore 560034, India
☎+91 80 2553 0672

OCT - DEC 2010 | *Visiting Professor*
Kwasan and Hida Observatories, Kyoto University,
Kitashirakawa-oiwake-cho, Sakyo-ku, Kyoto, 606-8502,
4th floor in the Build. of faculty of Science, Japan
☎+81 75 753 3893
(Host: Prof H. Isobe)

OCT - NOV 2006 | *Visiting Scientist*
High Altitude Observatory, 3090 Center Green Drive,
Boulder, Colorado 80301, USA
☎+1 303 497 2188
(Host: Dr Sarah E. Gibson)

PH.D. STUDENTS

2019 - PRESENT Supervisor	Mr Vishal Upendran Thesis Title: Heating and Dynamics of the Quiet Solar Corona IUCAA PhD Student, registered at JNU, Delhi
2018 - PRESENT Supervisor	Mr Abhishek Rajhans Thesis Title: Energetics of the Solar Atmosphere IUCAA PhD Student, registered at JNU, Delhi
2015 - 2020 Supervisor with Prof Ahmed	Ms Aishawnnya Sharma Thesis Title: Coupling of the Solar Atmosphere through Waves University of Tezpur, Assam, India
2014 - 2019 Supervisor with Prof Ramaprakash Position Moved onto	Dr Avyarthana Ghosh Thesis Title: Dynamic Coupling of the Solar Atmosphere: Instrumentation and Observations Centre for Excellence in Space Science in India (CESSI), Indian Institute of Science Education and Research, Kolkata, India Instrumentation Post Doctoral Fellow, IUCAA, Pune
2008 - 2011 Mentor Supervisor: Dr Helen Mason	Dr Brendan O'Dwyer Thesis Title: EUV and X-ray Spectroscopic Diagnostics of the Solar Corona University of Cambridge, UK
2005 - 2008 Mentor Supervisor: Dr Helen Mason	Dr Cristina Chifor Thesis Title: Dynamics and Non-Equilibrium Phenomena in the Solar Atmosphere University of Cambridge, UK

UNDERGRADUATE PROJECT STUDENTS

DEC 2016 - MAY 2018	Mr Nived V. N. MSc Thesis at Indian Institute of Science Education and Research Working Project Title: Study of Active Regions using AIA, IRIS and EIS PhD student at Armagh Observatory, Ireland, UK
JAN 2016 - APRIL 2016	Ms Namrata Roy MSc Thesis at Presidency University Project Title: Characteristics of Chromospheric Spectral Lines in Solar Flares Position moved onto: PhD student at University of California, Santa Cruz
OCT 2013 - DEC 2014	Ms Sherry Chhabra MSc Thesis at Fergusson College, Pune Project Title: On the Asymmetries in the Solar Coronal Spectral Lines Position moved onto: PhD student at New Jersey Institute of Technology, USA

JAN 2013 - MAR 2014 | Ms Juie Shetye
Project Title: North-South Asymmetry in Solar Magnetic Flux and effect on the grand solar minima
Position moved onto: PhD student at Armagh Observatory, Ireland, UK

RESEARCH ASSISTANTS

OCT 2018 - SEP 2019 | Mr Nived VN
Project Student at IUCAA under Max Planck Partner Group
"Differences and Similarities between Quiet Sun and Coronal Holes"

OCT 2018 - AUG 2019 | Mr Aditya Singh
Project Student at IUCAA under Max Planck Partner Group
"Development of data pipeline for SUIT"

JUN 2016 - DEC 2017 | Mr Pranjal Sarmah
Project Student at Tezpur University
"Dynamics of Prominences"

OCT 2014 - FEB 2016 | Ms Aparna V.
Project Student at IUCAA under DST Fast Track Scheme
on "Physics of Jets in the Solar Atmosphere"
Position moved onto: PhD student at Georgia State University, USA

JAN 2013 - SEP 2014 | Ms Sargam Mulay
Project Student at IUCAA under DST Fast Track Scheme
on "Physics of Jets in the Solar Atmosphere"
Position moved onto: PhD student at DAMTP, University of Cambridge

POST DOCTORAL FELLOWS

JAN 2018 - PRESENT | Dr P. Sreejith
SUIT Project Scientist | Post Doctoral Fellow at IUCAA

JUN 2018 - OCT 2019 | Dr Sargam Mulay
Post Doctoral Fellow at IUCAA
Position moved onto: PDRA at Glasgow University

FEB 2017 - JAN 2019 | Dr Sangeetha CR
Post Doctoral Fellow at IUCAA under Max-Planck Partner Group
Position moved onto: PDRA at Udaipur Solar Observatory, Udaipur

AUG 2013 - MAR 2018 | Dr Girjesh Gupta
DST INSPIRE Faculty Fellow at IUCAA, Pune
Position moved onto: Commonwealth Rutherford Fellow at DAMTP,

	Cambridge and then as a Faculty member at Udaipur Solar Observatory, Udaipur
NOV 2014 - OCT 2016	Dr Pradeep Kayshap Post Doctoral Fellow at IUCAA under Max-Planck Partner Group Position moved onto: Post Doctoral Fellow at Institute of Physics, Lubin, Poland
JUL 2012 - JUN 2014	Dr Srividya Subramanian Post Doctoral Fellow at IUCAA, Pune Position moved onto: Visiting Position at Armagh Observatory, Ireland

ENGINEERS [JOINTLY WITH PROF A N RAMAPRAKASH]

JUL 2017 - CONTINUING	Mr Akshay Kulkarni SUIT Mechanical Engineer
NOV 2015 - CONTINUING	Mr Ravi Kesharwani SUIT Electronics Engineer
JAN 2015 - DEC 2018	Mr A. R. Khan SUIT Lead Engineer

TEACHING

IUCAA Graduate School: (Graduate Course)	2018 - 2019 - A&A II (Stellar Structure and Evolution)
	2017 - 2018 - A&A II (Stellar Structure and Evolution)
	2012 - 2013 - Electrodynamics and Radiative Processes
	2011 - 2012 - Electrodynamics and Radiative Processes
MSc Pune University: (Under-graduate Course)	2015 - 2016 - Astrophysics I [Orbtis, Fluids, Radiation]
	2014 - 2015 - Astrophysics I [Orbtis, Fluids, Radiation]

RESEARCH GRANTS

2016 - 2019 Co-PI Amount Sanctioned	"To study the dynamics of prominences and large scale eruptions such as CMEs", funded by ISRO/RESPOND, India INR 1.92 Million
2014 - 2017 Amount Sanctioned	Max-Planck Partner Group on Coupling and Dynamics of Solar Atmosphere jointly funded by Max-Planck Society Germany and Indo-German Science and Technology, Department of Science and Technology, India INR 3.9 Million (DST, India) + Euro 60,000 (MPG, Germany)
2016 - 2019 PI Amount Sanctioned	"Solar Ultraviolet Imaging Telescope (SUIT) on board Aditya-L1 a project by Indian Space Research Organization (ISRO), India INR 235 Million
2013 - 2015 Co-PI Amount Sanctioned	"ClassACT - Indo-US centre for astronomical object and feature characterisation and classification" funded by Indo-US Science and Technology Forum INR 3.3 Million
2012 - 2015 PI Amount Sanctioned	"Physics of Jets in Solar Atmosphere and their Roles in Large Scale Eruptions" funded by Department of Science and Technology, India INR 1.73 Million

PROFESSIONAL SERVICES & SYNERGETIC ACTIVITIES

- Jun 2013 - Present Principal Investigator (PI), Solar Ultraviolet Imaging Telescope (SUIT) on board Aditya-L1 mission
- Nov 2012 - Present Science Team Member, Visible Emission Line Coronagraph (VELC) on board Aditya-L1 mission
- 2006 - Present Peer reviewer for journals
ApJ, A&A, Solar Physics, Advances in Space Research, PASJ
- 2012 Member of NASA review panel for Proposals in Heliophysics
- 2006 - 2011 Designing and Planning of observations on space based telescopes on board SoHO and Hinode

ADMINISTRATIVE SERVICES

- Jan 2016 - Present Head, Library at IUCAA.
- Jan 2016 - Present Member, Instrumentation Committee at IUCAA.
- Nov 2014 - Present Member of Public Outreach Programmes Committee at IUCAA.
- Oct 2012 - Present Member of Teaching Programme Committee at IUCAA.
- Apr 2011 - Present Member of Academic Programme Committee at IUCAA.
- May 2013 - Nov 2014 National Outreach Contact for IAU.
- Aug 2013 - Nov 2014 Member of TMT's (Thirty Meter Telescope) Workforce, Education, and Public Outreach (WEP) Advisory Group
- Oct 2012 - Nov 2014 Head, Science Public Outreach Programmes at IUCAA.
- 2009 - 2011 Member of Governing Body, Clare Hall, Cambridge University, Cambridge.

ORGANISATIONS OF WORKSHOPS AND CONFERENCES

- Feb 2020, 3-8 **5th Asia Pacific Solar Physics Meeting, IUCAA, Pune**
Co-chair, SOC
- Mar 2018, 6-10 Annual meeting of Astronomical Society of India
Member SOC
- Feb 2018, 6-10 International Astronomical Union 340, Jaipur, India

Member LOC

- Jun 2017, 27-30 **Member SOC** 8th Coronal Loops Workshop: many facets of magnetically closed corona
- Mar 2017, 6-10 **Member SOC** Annual meeting of Astronomical Society of India
- Jan 2016, 24-29 **Member of LOC** "Science for Space Weather" in Goa, India
- Oct 2015, 26-29 **Chair of SOC and LOC** "IRIS-5 Workshop" at IUCAA, Pune
- Nov 2014, 10-14 **Chair of SOC and LOC** "International Conference on Coupling and Dynamics of the Solar Atmosphere" at IUCAA, Pune
- Aug 2014, 2-14 **Member SOC** "COSPAR-2014", Moscow
Member SOC for three different sessions
- Nov 2011, 6-9 **Member of LOC** "International Symposium on Solar-Terrestrial Physics" @ IISER-Pune
- September 2011, 5-7, **Chair of SOC and LOC** "National Workshop on Physics of Solar Transition Region and Corona" @ IUCAA, Pune
- Sep 2010, 13-15, **Co-Chair of SOC and LOC** "International Conference on Solar Plasma Spectroscopy: Achievements and Future Challenges" @DAMTP, University of Cambridge, UK
- July 2007, 25-27, **Co-Chair of SOC and LOC** "Eruptive Phenomena on the Sun" @DAMTP, University of Cambridge, UK

EDUCATION

- FEB. 2005 | Dr. rer. Nat. (Doctor rerum naturalium) in ASTRONOMY & ASTROPHYSICS
Institution: Max-Planck-Institute for Solar System Research, Katlenburg-Lindau,
Degree awarded by: Georg-August-Universität Göttingen, Germany
Honor: Magna Cum Laude
Thesis: EUV and Coronagraphic Observations of Corona Mass Ejections
- 2001 | Master of Science (M. Sc.) Physics (Specialization in Astronomy and Astrophysics)
Institution: D.D.U. Gorakhpur University, Gorakhpur, India
Honor: University Gold Medalist
- 1998 | Bachelor of Science, Physics and Mathematics
Institution: St. Andrews College, D.D.U. Gorakhpur University, Gorakhpur, India

COMPUTATIONAL SKILLS

Operating Systems: UNIX/LINUX, MCINTOSH, WINDOWS

Programming Language: IDL (fluent), Modern Fortran & f77 (basic)

Applications: Latex, MS Office, html

MEMBERSHIP TO PROFESSIONAL SOCIETIES

International Astronomical Union
Astronomical Society of India