

PERSONAL INFORMATION



Dr. Deepak Kumar

- Amity Institute of Geoinformatics and Remote Sensing (AIGIRS),**
Amity University, Sector –125, Noida-201 303, Uttar Pradesh (India)
- (+91) 9448675499 / +91-120-4732361
- dkumar12@amity.edu / deepakdeo2003@gmail.com
- <https://www.amity.edu/aigirs/>
- Orcid ID <https://orcid.org/0000-0003-4487-7755>

Sex Male | **Date of birth** 06/08/1987 | **Nationality** Indian

PERSONAL STATEMENT

My current research emphasizes on wider areas of satellite image processing and geospatial technology to utilize cutting-edge technology in exploring potential of technologies for interdisciplinary research. My interdisciplinary research interest include :

- Satellite Image Processing
- Planetary and Radar Remote Sensing
- Microwave and Hyperspectral Image Processing and Analysis
- Pattern Recognition and Object Based Image Analysis
- Urban Landscape Studies and Analysis for Smart cities
- Location Analytics, Spatio-Temporal Data Analytics
- Spatial Data Management and Revisualization
- Renewable Energy, Energy Conservation, Conversion and Management

WORK EXPERIENCE

14/06/2016–Present

Assistant Professor

Amity Institute of Geoinformatics and Remote Sensing (AIGIRS),

Amity University, Sector –125, Noida-201 303, Uttar Pradesh, India

- *Teaching and Research Work*
- *Teaching to doctoral, post graduate and undergraduate students*
- *Administrative responsibilities*

01/08/2014–09/06/2016

Senior Research Fellow [DST-INSPIRE]

School of Earth Sciences, Central University of Karnataka, Kalaburagi (Gulbarga), India.

- *Research Work*
- *Teaching to postgraduate and undergraduate students*

06/08/2012–31/07/2014

Junior Research Fellow [DST-INSPIRE]

School of Earth Sciences, Central University of Karnataka, Kalaburagi (Gulbarga), India.

- *Research Work*
- *Teaching to postgraduate and undergraduate students*

EDUCATION AND TRAINING

08/2012–06/2016

Doctor of Philosophy (Ph.D.)

School of Earth Sciences, Central University of Karnataka, Kalaburagi (Gulbarga), India.

Renewable Energy & Geospatial Technology

08/2010–06/2012

Master of Science

School of Earth Sciences, Central University of Karnataka, Kalaburagi (Gulbarga), India.

Geospatial Applications in Regional Development

08/2005–07/2009

Bachelor of Technology (B.Tech)

Biju Patnaik University of Technology, Odisha, India. (India)

Information Technology

ONGOING RESEARCH SUPERVISION

- Research supervision to Ms. Noyingbeni Kikon on topic entitled *Advanced spatial information retrieval and quantification (ASIRQ) from SAR and optical images* at Amity Institute of Geoinformatics and Remote Sensing (AIGIRS), Amity University, Sector –125, Noida-201 313, Uttar Pradesh, India, India.
- Research supervision to Ms. Mandvi Misra on topic entitled *Evaluating urban green landscape through hybrid approach for smart cities* at Amity Institute of Geoinformatics and Remote Sensing (AIGIRS), Amity University, Sector –125, Noida-201 313, Uttar Pradesh, India, India.
- Research supervision to Ms. Sunita on topic entitled *Assessing Urban Blue-Green Spaces through SAR Remote Sensing* at Amity Institute of Geoinformatics and Remote Sensing (AIGIRS), Amity University, Sector –125, Noida-201 313, Uttar Pradesh, India, India.

ONGOING PROJECT

- Hybrid Urban Landscape Analysis for Green Smart Cities through Geospatial Technology, DST Early Career Research Award (2017-20) as Principle Investigator.
- Meta-sensing of urban footprint from airborne synthetic aperture radar (ASAR) data, SAC (ISRO) Department of Space, Govt. of India (2017-20) as Principle Investigator.

MEMBERSHIPS

- Member of International Society for Photogrammetry and Remote Sensing
- Life Member of Indian Society of Remote Sensing (ISRS) //Membership. No-L-4491.
- Life Member of Indian National Cartographic Association (INCA) //Membership. No-LM-2763.
- Member of European Geosciences Union(EGU) // ID No.265275

FELLOWSHIPS, ACADEMIC AWARDS AND HONOURS

- Received *International Travel Support (ITS)* grant from Science and Engineering Research Board, Department of Science and Technology, Government of India for presenting paper at USA.
- Received *Best Paper Award* for the paper entitled *Evaluating solar exergy for alternate energy systems* at 37th INCA International Congress on Geoinformatics for Carto-Diversity and Its Management during 01st to 03rd November 2017 at National Hydrographic Office, Dehradun-248 001, India.
- Recipient of research grant from SAC-ISRO, Govt. of India under NISAR mission of NASA-ISRO on project entitled *Meta-sensing of urban footprint from airborne synthetic aperture radar (ASAR) data* with funding of ₹15.86 lakhs.
- Recipient of *Early Career Research (ECR)* Award from Science and Engineering Research Board, Department of Science and Technology, Government of India on project entitled *Hybrid Urban Landscape Analysis for Green Smart Cities through Geospatial Technology* with research funding of ₹17.44 lakhs.
- Recipient of *University Gold Medal* from Central University of Karnataka, Kalaburagi (Awarded from the President of India) for securing highest marks at position at post-graduate level.
- Recipient of *Junior Research Fellowship (JRF)* position from National Remote Sensing Centre, Indian Space Research Organization, Department of Space, Government of India.
- Recipient of *DST-INSPIRE Fellowship [IF120639]* in the year 2012-2013 by the Department of Science & Technology, Ministry of Science & Technology, Government of India for pursuing the Doctoral Program in Science & Technology.
- Recipient of *University Research Fellowship* in the year 2012-2013 by the Central University of Karnataka for pursuing the Doctoral Program in Earth Sciences domain.
- Received *Certificate of Outstanding Contribution in Reviewing* for the contributions made to the quality of the SCIENCE OF THE TOTAL ENVIRONMENT Journal by The Editors of SCIENCE OF THE TOTAL ENVIRONMENT, Elsevier, Amsterdam, The Netherlands.
- Received *Certificate of Outstanding Contribution in Reviewing* for the contributions made to the quality of the SUSTAINABLE CITIES AND SOCIETY Journal by The Editors of SUSTAINABLE CITIES AND SOCIETY, Elsevier, Amsterdam, The Netherlands.

- Received Certificate of Outstanding Contribution in Reviewing for the contributions made to the quality of the SOLAR ENERGY Journal by The Editors of SOLAR ENERGY, Elsevier, Amsterdam, The Netherlands.
- Received Certificate of Outstanding Contribution Reviewing for the contributions made for the SOLAR ENERGY Journal by The Editors of SOLAR ENERGY, Elsevier, Amsterdam, The Netherlands.

RESEARCH CONTRIBUTIONS

- Completed PhD Research on the thesis entitled *Solar Energy Modelling and Feasibility Analysis of Smart Solar Grids Using Geospatial Technology* from School of Earth Sciences, Central University of Karnataka, Kalaburagi (Gulbarga), India.
- Completed Research Project entitled *Lunar Digital Surface Modelling & Analysis Using Chandrayaan-1 TMC Stereo Data for Implementing Navigation Techniques Based on Surface Derivatives Criterion* from Space Applications Centre (ISRO), Ahmedabad, Gujarat, India.
- Contributed to data processing and product generation work related to *Chandrayaan-1 Mission* and also worked on preliminary activities for *Chandrayaan-2 Mission* like Terrain Surface Modeling & Visualization as well as understanding Geo-Information pipeline for data processing.
- Worked on multiple on-going projects (related to high resolution data processing & output generation) related to *Chandrayaan-1 Mission* during three months internship at HRDPD/SPDCG/SIPA, Space Applications Centre (ISRO), Ahmedabad, Gujarat.

REVIEWERS OF JOURNALS

- IEEE Access-The Multidisciplinary Open Access Journal
- Science of the Total Environment, Elsevier.
- Optik - International Journal for Light and Electron Optics, Elsevier.
- Sustainable Cities and Society, Elsevier.
- Solar Energy, Elsevier.
- Environmental Progress & Sustainable Energy, Wiley.
- Geo-Spatial Information Science, Taylor & Francis Group.
- International Journal of Remote Sensing, Taylor & Francis Group.

PUBLICATIONS

International Peer Reviewed Journal

- **Kumar, Deepak (2019).** *Hyper-temporal variability analysis of solar insolation with respect to local seasons*, Remote Sensing Applications: Society and Environment, (Elsevier), ISSN: ISSN: 2352-9385 (Online). DOI: <https://doi.org/10.1016/j.rasae.2019.100241>
- **Kumar, Deepak (2018).** *Mapping solar energy potential of southern India through geospatial technology*, Geocarto International, (Taylor & Francis), ISSN: 1010-6049 (Print) 1752-0762 (Online). DOI: 10.1080/10106049.2018.1494759
- **Kumar, Deepak, Tewary, Tavishi and Shekhar, Sulochana (2018).** *Enhanced Adaptive Technique for surface Temperature Variability Analysis*, Iranian Journal of Science and Technology Transactions A: Science (Springer), Volume 42, Issue 3, pp 1309–1316. DOI: 10.1007/s40995-017-0469-5. ISSN 1028-6276.
- **Kumar, Deepak (2018).** *Surface temperature variability analysis of an urban area using Landsat ETM+ thermal images*, Asian Geographer (Taylor & Francis), Volume 34, Issue-1, page 25-37, <https://doi.org/10.1080/10225706.2017.1322992>
- **Kumar, Deepak and Shekhar, Sulochana (2016).** *Linear Gradient Analysis of Kinetic Temperature through Geostatistical Approach*, Modelling Earth Systems and Environment (Springer) ISSN 2363-6203, DOI 10.1007/s40808-016-0198-3.
- **Kumar, Deepak (2016).** *Adaptive Hierarchical Cell Sub-Division (AHCS) Method For Enhanced Surface Radiance Temperature Variability Analysis*, Modelling Earth Systems and Environment (Springer) ISSN 2363-6203, DOI 10.1007/s40808-016-0194-7

- Kumar, Deepak and Shekhar, Sulochana (2015). *Statistical Analysis of Land Surface Temperature–Vegetation Indexes Relationship through Thermal Remote Sensing*, Elsevier-Ecotoxicology and Environmental Safety (Elsevier), Volume 34, Issue-1, page 25-37, <http://dx.doi.org/10.1016/j.ecoenv.2015.07.004> (**Impact Factor-2.878**).
- Kumar, Deepak and Shekhar, Sulochana (2015). *Renewable Energy Potential for Green Networks*, Research J. Science and Tech. 7(2): April-June, 2015, Print ISSN: 0975-4393 / Online ISSN: 2349-2988, PP 125-132.

National Peer Reviewed Journal

- Kumar, Deepak (2018). *Evaluating Solar Exergy for Alternate Energy Systems*, Indian Cartographer, Vol-37, 2017 (ISSN 0927-8392), INCA, Hyderabad, India, PP 1-10.
- Kumar, Deepak (2014). *Spatial Variation of Surface Energy Fluxes with respect to land use changes across Gulbarga city*, Indian Cartographer, Vol. XXXIV (2014).

International Conference/ Proceedings

- Kumar, Deepak (2015). *Economic Assessment of Photovoltaic Energy Production Prospects in India*, Elsevier Earth and Planetary Science Procedia (Elsevier) 11 ISSN: 1878-5220 PP 436-447. doi:10.1016/j.proeps.2015.06.042 (**SNIP-1.088**).
- Kumar, Deepak (2015). *Remote Sensing Based Vegetation Indices Analysis to Improve Water Resources Management in Urban Environment*, Elsevier Aquatic Procedia 4(2015) ISSN: 2214-241X, PP 1374-1380. doi:10.1016/j.aqpro.2015.02.178.
- Kumar, Deepak and Shekhar, Sulochana (2014). *Computing Building Rooftop Solar Potential for Photovoltaics*, Conference Proceedings papers of ISRS Special Interactive Session in ISPRS TC VIII Mid-Term Symposium on “Operational RS Applications: Opportunities, Progress and Challenges” held during December 9-12, 2014 at Hyderabad, India.
- Kumar, Deepak and Shekhar, Sulochana (2013). *Modelling Solar Energy Using Geospatial Technology*, Conference Proceedings of International Conference on Geospatial Momentum for Society and Environment, CEPT University, Ahmedabad, AGSE Publishing, Germany, PP 351-364, ISBN: 978-3-943321-12-8.

National Conference/ Proceedings

- Misra, Mandvi and Kumar, Deepak (2018). *Base Map Preparation with Multi-Source Datasets for Urban Landscape Analysis*, Conference Proceedings of ESRI India User Conference 2018, Delhi, NCR.
- Rana, Diksha and Kumar, Deepak (2018). *Analysing Impact on Urbanization Pattern of Delhi NCR Region due of Delhi Metro*, Conference Proceedings of ESRI India User Conference 2018, Delhi, NCR.
- Garg, Pratibha and Kumar, Deepak (2018). *Assessing lateral expansion along Delhi Meerut Expressway Corridor*, Conference Proceedings of ESRI India User Conference 2018, Delhi, NCR.
- Girish, Aditya and Kumar, Deepak (2018). *Analysing decline of Green Cover due to Eastern Peripheral Expressway*, Conference Proceedings of ESRI India User Conference 2018, Delhi, NCR.

Book Chapters

- Kumar, Deepak (2019). *Statistical Image Processing for Enhanced Scientific Analysis*. In A. K. Somani et al. (eds.), Smart Systems and IoT: Innovations in Computing, Smart Innovation, Systems and Technologies 141, https://doi.org/10.1007/978-981-13-8406-6_1 (Springer Nature Singapore Pte Ltd. 2020)
- Kumar, Deepak (2017). *Mitigating Climate Change through Efficient Agroforestry Methods*. In Climate Change and Agroforestry, pp. 95-108 Editors: C.B. Pandey, Mahesh Kumar Gaur and R.K. Goyal © 2017, New India Publishing Agency, New Delhi, India, PP 93-106, ISBN: 9789386546067.
- Kumar, Deepak & Shekhar, Sulochana (2015). *Rural Energy Supply Models for Smart Villages*. In Rao, Madhava V.; Rao, Kesava P.; Kumar Phanindra T. & Murthy D.S.R. (1st Edi.) Geoinformatics Applications in Rural Development, Professional Books Publisher, Hyderabad, PP 166-178 ISBN: 978-81-909728-9-5.

- **Kumar, Deepak** (2014). *Overview of open Source Virtual Learning Environment for Scientific Research*. In Kattimani P.S., & Jange, Suresh (1st Edi.) *Integrating ICT in Academic Libraries: Making a Difference in Knowledge Age*, Neoti Book Agency, New Delhi, PP 672-683, and ISBN: 9788-19275-6912.

WORKSHOP, TRAINING AND CERTIFICATIONS

- **June 2019:** Participated in the course on *Machine Learning and its Application* conducted by, Indian Institute Remote Sensing (IIRS), Dehradun during June 03-07, 2019 at Dehradun.
- **September 2018:** Participated in the course on *SAR Data Processing and Analysis for Land Applications with Special Emphasis on L&S Bands* conducted under TREES (Training and Research in Earth Eco-System),an initiative of Space Applications Centre during 24-28 September, 2018 at Ahmedabad.
- **April 2016:** Participated in the course on *Microwave Remote Sensing Applications* conducted by National Remote Sensing Centre, Hyderabad during April 11-22, 2016.
- **February-April 2016:** Completed advance course Off-campus outreach Certificate program on *Geospatial Technologies for Urban Planning* conducted by Indian Institute of Remote Sensing (ISRO), Department of Space, Govt. of India during 11th February 2016 to 15th March 2016.
- **July 2015:** Participated in ISPRS Summer School on *Research and Teaching Methodologies for Master and Ph.D. students* conducted by Siberian State University of Geosystems and Technologies, Russia in association with Indian Institute Remote Sensing (IIRS), Dehradun during July 6-10, 2015.
- **May 2015:** Participated in the National Workshop on *Basic Matlab Programming and Simulink* held from May 6-8th, 2015 at the Department of Mathematics, Central University of Karnataka, Kalaburagi (Gulbarga), India.
- **April-May 2015:** Participated in the course on *Emerging Trends in Remote Sensing* conducted by National Remote Sensing Centre, Hyderabad during April 20-May 1, 2015.
- **April 2015:** Participated in the International Conference on *Global Challenges, Policy Framework & Sustainable Development for Mining of Mineral and Fossil Energy Resources: 2015-20(GCPF:2015-20)* held at Department of Mining Engineering, National Institute of Technology Karnataka, Surathkal between 17th & 18th April 2015.
- **February 2015:** Participated in two days' workshop on *Real Time GIS* organised by Department of Geography, School of Earth Sciences, Central University of Karnataka, Gulbarga during February 16 -17th ,2015.
- **January-March 2015:** Completed advance course Off-campus outreach Certificate program on *Applications of Remote Sensing & GIS for Natural Resources* conducted by Indian Institute of Remote Sensing (ISRO), Department of Space, Govt. of India during 27th January 2015 to 27th March 2015.
- **January 2015:** Participated in one days' Training in *Human Rights* held on 19th January 2015 at the Administrative Building, Central University of Karnataka, Kalaburagi (Gulbarga).
- **December 2014:** Participated in Four day Workshop on *Recent Challenges in Atmospheric and earth Sciences (RCAES-2014)* held at Department of Chemical Engineering, National Institute of Technology Karnataka, Surathkal during 27th to 30th December 2014.
- **December 2014:** Participated in Pre-Symposium Tutorial on *Hyperspectral Data Analysis and Applications* held during December 07-08, 2014 at National Remote Sensing Centre, ISRO as part of ISPRS Technical Commission VIII Mid-Term Symposium, 2014.
- **September 2014:** Attended Three Weeks DST-NRDMS Sponsored Winter/Summer School Training Programme on *GEOSPATIAL TECHNOLOGY-Significance, Applications and beyond* held during 4th to 24th September, 2014 organized by Department of Earth Sciences (DST-FIST Sponsored) at Annamalai University, Annamalai Nagar, Tamil Nadu.
- **February-March 2014:** Completed advance course Off-campus outreach Certificate program on *Microwave (SAR) Remote Sensing for Natural Resources* conducted by Indian Institute of Remote Sensing (ISRO), Department of Space, Govt. of India during 03rd February 2014 to 29th March 2014.
- **February 2014:** Participated in *National Workshop on SPSS and Statistical Data Analysis* held on 8th & 09th February, 2014 at Faculty of Management Studies, AKS University Satna in collaboration with SPSS South Asia Pvt. Ltd., Bangalore-an IBM Company.
- **January - February 2014:** Participated and successfully completed the three week *NRDMS Geospatial Winter School on Open Source Development of Geospatial Technology* sponsored under NRDMS programme of DST, Govt. of India and jointly organised by the non-profit foundation Open Source Geospatial and Lab for Spatial

Informatics, International Institute of Information Technology, Hyderabad during 27th January-15th February, 2014.

- **December 2013:** Attended International Workshop on *Innovative Learning Tools 2013: ISPRS Technical Commission-VI, Working Group VI/2 with specific emphasis on Earth Resource management* organised by Faculty of Technology, CEPT University, Ahmedabad during December 20-21, 2013.
- **December 2013:** Attended Pre-Symposium Tutorial on *PLANETARY EXLORATION* conducted at Department of Geo-Engineering & Centre for Remote Sensing, College of Engineering (Autonomous), Andhra University, Visakhapatnam during December 2-3, 2013.
- **November 2013:** Participated one Week AICTE recognized short term course on *Soft Computing through ICT* from 11th November to 15th November 2013 at AKS University, Satna, Madhya Pradesh, India.
- **July 2013:** Contributed as Technical Resource Person in two day workshop on *Frontier's in Geospatial Technology* organised by Dept. of Geography, School of Earth Sciences, Central University of Karnataka, Gulbarga during 1st and 2nd July 2013 sponsored by Karnataka Science & Technology Academy, Govt. of Karnataka.
- **May 2013:** Completed advance course through Off- Campus Outreach Certificate Program on *Geoweb Services-Technology and Applications* conducted by the Indian Institute of Remote Sensing(IIRS),ISRO, Dehradun held during 11th February to 15th March 2013.
- **January 2013:** Attended 13th PLANEX (*Planetary Sciences and Exploration Program*) on *Impacts on Solar System Objects* at CSIR-National Geophysical Research Institute, Hyderabad held during January 6-12, 2013 and completed a short project entitled *Numerical Modelling Using High Performance Computers*.
- **October 2012:** Completed basic course through Off- Campus Outreach Certificate on *Remote Sensing, Geographical Information System and Global Position System* conducted by the Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun held during 06th August to 22nd October 2012.
- **May 2012:** Attended two day National Seminar on *Frontiers of Earth Science Research* organised by School of Earth Sciences, Central University of Karnataka, in association with Mineralogical Society of India during May 5-6, 2012.
- **January 2012:** Participated and Volunteered in two day's Social Business Plan Competition entitled "UTTHAN'12" organised by Faculty of Management Studies, Banaras Hindu University during January 6-7, 2012.
- **October- November 2011:** Undergone one month intensive field training on *Physical Survey & Field Techniques* during October 12th to November 15th ,2011 along with hands on experience with Chain, Compass, Theodolite, Total Station, Plane, GPS Survey techniques from Department of Civil Engineering, Poojya Doddappa Appa (PDA), College of Engineering, Gulbarga, Karnataka.
- **May 2011:** Undertaken three week summer internship program on *Digital Image Processing, Principles of Image Interpretation & Applications of Remote Sensing* during May 10th to 28th ,2011 along with hands on training on ESRI's ArcGIS software's & its extensions(like Spatial Analyst & 3-D Analyst), ERDAS Imagine, AutoCAD, ArcView from Department of Applied Geology, Kuvempu University, Shankaraghata, Karnataka.

CONFERENCES, SEMINAR AND SYMPOSIA

- **March 2019:** Presented a paper entitled *Countering Challenges of Smart Cities Mission through Participatory Approach* at the International Conference on Smart Cities during March 14-16, 2019 at Department of Civil Engineering, Jamia Millia Islamia, New Delhi -110025, India.
- **January 2019:** Presented a paper entitled *Enhanced Scientific Analysis through Statistical Image Processing Approach* at the International Conference on 2nd International Conference on SMART IOT SYSTEMS: INNOVATIONS IN COMPUTING (SSIC 2019) during January 18-20, 2019 at Manipal University Jaipur (Rajasthan), India.
- **September 2018:** Authored a paper entitled *Base Map Preparation with Multi-Source Database for Urban Landscape Analysis* at the ESRI User Meet 2018 during 11th September 2018 organized by ESRI India User Conference 2018, India.
- **November 2017:** Presented a paper entitled *Innovative Trends in Engineering Science and Management-Presentation on Evaluation and Analysis of Ground Water Quality through Geospatial Technology* at the

- International Conference on Innovative Trends in Engineering, Science and Management (ITESM-2017) during 10th to 11th November 2017 organized by MATS University,Aarang,Raipur-493441(Chhattisgarh), India.
- **November 2017:** Presented a paper entitled *Evaluating solar exergy for alternate energy systems* at the 37th INCA International Congress on Geoinformatics for Carto-Diversity and Its Management during 01st to 03rd November 2017 organized by National Hydrographic Office, Dehradun-248 001, India.
 - **October 2017:** Presented a paper entitled *Geospatial Technology for the Urban Health Equity* at the 38th Asian Conference on Remote Sensing during October 23 - 27, 2017 at Hotel-The Ashok, New Delhi, India.
 - **October 2017:** Presented a paper entitled *Prospects of Big Data Analytics in Geospatial Sciences* at the 38th Asian Conference on Remote Sensing during October 23 - 27, 2017 at Hotel-The Ashok, New Delhi, India.
 - **August 2017:** Presented a paper entitled *Spatio-Temporal Data Analytics in Urban Remote Sensing* at the National Seminar on Recent Trends in Mining Technology and Geosciences held on August 05th, 2017 at National Institute of Technology, Raipur (CG).
 - **March 2017:** Presented a paper entitled *Simulation for Feasibility Assessment of Renewable Energy Systems* at the International Conference on Advances in Steel, Power and Construction Technology held during March 22nd to 23rd, 2017 at Hotel Hyatt, Raipur (CG) organized by OP Jindal University, Raigarh (CG).
 - **March 2017:** Presented a paper entitled *Mitigating Energy Crisis through Geospatial Technology* at the International Conference on Advances in Steel, Power and Construction Technology held during March 22nd to 23rd, 2017 at Hotel Hyatt, Raipur (CG) organized by OP Jindal University, Raigarh (CG).
 - **February 2017:** Presented a paper entitled *GIS Based Solar Energy Potential Map for Southern India* at the International Conference Membrane Technology and Its Application (MemSep-2017) held during February 21st to 23rd, 2017 at Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli 620015, India.
 - **February 2017:** Presented a paper entitled *Hyper Temporal Variability Analysis of Solar Insolation* at the International Conference Membrane Technology and Its Application (MemSep-2017) held during February 21st to 23rd, 2017 at Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli 620015, India.
 - **March 2016:** Presented a paper entitled *Simulation for Feasibility Assessment of Renewable Energy Systems* at the International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016) held during March 17th -19th, 2016 at Jaipur National University, Jaipur, Rajasthan ,India. (**ISBN No.-978-93-5254-230-7**).
 - **March 2016:** Presented a paper entitled *Empowering Smart Cities With Energy Supply Models* at the International Conference on Materials Research and Application (ICMRA-2016) held during March 11th -13th ,2016 at CMR Technical Campus, Hyderabad, Telangana, India.
 - **February 2016:** Presented a poster/paper titled *Effect of Rainfall Variability on Photovoltaic Energy Production* at the Annual Workshop on Monsoon-2014 and National Symposium on Vagaries of Monsoon organized by Indian Meteorological Society, Pune Chapter held during February 23rd and 24th, 2016 at Indian Institute of Tropical Meteorology, Pune, and Maharashtra, India.
 - **March 2015:** Presented a paper titled *Rural Energy Supply Models for Smart Villages* at the National Seminar on Geo-Informatics in Rural Development organized by National Institute of Rural Development & Panchayati Raj, Hyderabad held during March 26-27th, 2015 at Hyderabad, Telangana, India.
 - **March 2015:** Presented a paper titled *Remote Sensing Based Vegetation Indices Analysis to improve Water Resources Management in Urban Environment* at International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15) held during March 12 -14th ,2015 organized by Department of Applied Mechanics and Hydraulics, National Institute of Technology Karnataka, Surathkal, Mangaluru, India.
 - **March 2015:** Presented a poster titled *Variability of Monsoons and its Implications to Drifts in Energy Usage* at the Annual Workshop on Monsoon-2014 and National Symposium on Vagaries of Monsoon organized by Indian Meteorological Society, Pune Chapter held during March 02-03rd, 2015 at Indian Institute of Tropical Meteorology, Pune, Maharashtra, India.
 - **January 2015:** Presented poster tilted *Feasibility Analysis of Smart Solar Grids for Handling Energy Linked Disasters* at Two days Karnataka Science and Technology Academy (KSTA) Conference on "Science and Technology for Disaster Management" organised by School of Earth Sciences, Central University of Karnataka, Kalaburagi (Gulbarga),India during January 30th and 31st , 2015.

- **December 2014:** Presented a paper entitled *Spatial Variation of Surface Energy Fluxes with respect to Land Use Changes across Gulbarga City* at the Indian National Cartographic Association XXXIV INCA International Congress, Hyderabad held during December 16th -18th ,2014 at Hyderabad, Telangana, India.
- **December 2014:** Presented a paper entitled *Computing Building Rooftop Solar Potential for Photovoltaics* at ISPRS TC VIII Mid-Term Symposium on “Operational RS Applications: Opportunities, Progress and Challenges” held during December 9-12, 2014 at Hyderabad, Telangana, India.
- **September 2014:** Presented paper entitled *Statistical Analysis of Land surface Temperature-Vegetation Indexes Relationship through Thermal Remote Sensing* in the International Conference on Green Technology for Environmental Pollution Prevention and Control (ICGTEPC-2014) held at National Institute of Technology, Tiruchirappalli, Tamil Nadu, India during 27th -29th September 2014.
- **September 2014:** Presented paper entitled *Transition and Transect in Geospatial Science & Engineering* in National Conference on Emerging Trends of GIS & Remote Sensing in Modern Engineering organized in association with Chhattisgarh Council of Science and Technology (CGCOST) Raipur, Chhattisgarh, India during 14th -15th September, 2014.
- **August 2014:** Presented paper entitled *Overview of open Source Virtual Learning Environment for Scientific Research* in National Conference on Integrating ICT in Academic Libraries: Making a Difference in Knowledge Age organised by Central Library, Central University of Karnataka, Gulbarga, India during August 12-13th, 2014.
- **February 2014:** Presented paper entitled *Dynamics of Urban Heat Pattern in Urban Environments* at National Conference of Union of Geographic Information Technologists (UGIT) organised by Department of Geography, School of Earth Sciences, Central University of Karnataka, Gulbarga, India held during February 14-15, 2014.
- **January 2014:** Presented poster titled *Renewable Energy Potential Assessment through Geospatial Modelling Techniques* at Two days Karnataka Science and Technology Academy (KSTA) Regional Conference on “Science and Technology for Development” organised by School of Earth Sciences, Central University of Karnataka, Gulbarga, India during January 30th and 31st , 2014.
- **December 2013:** Presented paper entitled *Modelling Solar Energy Using Geospatial Technology* at International Conference on Geospatial Momentum for Society and Environment (AGSE 2013) organised by Faculty of Technology, CEPT University, Ahmedabad, Gujarat India during December 16-19, 2013.
- **December 2013:** Presented paper entitled *Geoinformatics Tools and Techniques for Regional Renewable Energy Assessment and Management* in the National Symposium on Remote Sensing and GIS for Environment with special Emphasis on Marine and Coastal Dynamics held Andhra University, Visakhapatnam, Andhra Pradesh, India during December 2-3, 2013.
- **December 2012:** Presented Paper entitled *Geospatial Analysis for Water Conservation Structures in Gulbarga, Karnataka, India* in International Conference on Sustainable Water Resource Development and Management organised by Department of Environmental Science, Shivaji University, Kolhapur, Maharashtra, India during December 20-21, 2012.

Travel Subsidy Justification

Justification

As a PhD student, I am currently on my advisor's grant from National Aeronautics and Space Administration (NASA) Ocean Vector Winds Science Team (OVWST). The grant allows me to travel 2 domestic (within U.S.) and 1 International conference trip every academic year. During the current academic year (2019-2020), I will be attending American Meteorological Society's 34th Tropical Conference (New Orleans, USA), NASA OVWST annual science team meeting (which is compulsory for me) to be held in Bangalore, India and International Conference on Clouds and Precipitation (ICCP) to be held in Pune, India. Therefore, my grant will not be able to pay for the summer school due to its restrictions. Hence, I am requesting a subsidy from the organizers of the summer school as I would really like to attend the school because of its advantages in my research.

Requested Level of Subsidy

I would like to request a 'Travel Subsidy' since my grant will not be able to pay for the travel and the registration fee for the summer school.

Tentative Cost Estimate for Travel Subsidy

Return trip from Chicago O' Hare to London Heathrow: \$510 (USD) ~ £399.62

Flight Details:

Airlines: Finnair

Departure	Departure Date/Time	Arrival	Arrival Time
Chicago O'Hare (AY5788)	August 21, 2020 7:25 PM (Local)	London Heathrow	August 22, 2020
London Heathrow (AY5755)	August 31, 2020 7:45 AM (Local)	Chicago O'Hare	August 31, 2020

Justification for subsidy - Lois Baker

I would like to be considered for a full attendance subsidy please, as I will not have sufficient funding from my doctoral training centre for registration and accommodation due to participation in an international conference this year. I will however be able to fund my own travel.

JUSTIFICATION FOR TRAVEL SUBSIDY

Dear Sir/Madam,

My name is Innocent Gibbon Masukwedza and I am a PhD student at the University of Sussex under the Peter Carpenter scholarship which aims to empower climate scientists from Africa. The scholarship is covering my tuition and stipend.

The little I manage to save is what I use to support my family back home in Zimbabwe. Had it not been for this, I would have sacrificed to fund myself to attend this very important training that will go a long way in ensuring my success as a researcher.

Regards,

Innocent Masukwedza.

Dear Sir
Dear Madam,

By this justification, I kindly ask you to grant me help to cover my costs of participation in the HPC summer school and travel costs.

My University does not pay me research costs like seminars, conferences, summer schools. My University only pays me the costs of staying in Belgium for 10 months a year.
So every time, I have to ask for help to be able to attend research activities abroad.
Thanks for your understanding.

Arab DJEBBAR
PhD Student.
Uclouvain.be

Dr Julian Kunkel
University of Reading,
Whiteknights Campus,
Reading, UK, RG6 6UR

03/03/2020

Justification for Attendance Subsidy

Dear Organising-Committee,

I am writing to apply for attendance subsidy to the Summer School on Effective HPC for Climate and Weather in Reading, UK. Attending this summer school will be greatly beneficial not only to me personally, but to the HPC expertise at the University of Hong Kong. The Faculty of Science of the University of Hong Kong has therefore already agreed to cover my travel expenses from Hong Kong to London (approx. £750) as well as providing seed funding for a follow-up knowledge transfer workshop. The high travel cost, however, means that the University is unable to cover my attendance fee and accommodation.

Yours sincerely,



Dr Alexander Koch

JUSTIFICATION FOR THE REQUEST OF TRAVEL SUBSIDY

I would appreciate it so much if my request for travel subsidy is granted by the organizing committee. I recently received the offer as a senior scientific officer in current organization. It is a federal government job offer but as at the time of my application for this HPC summer school, am not yet entitled to request for a travel grant for participation at International conference. Another option of self-sponsor is not possible due to my financial status currently. I hereby solicit for your generous support to enable my participation in the 2020 ESiWACE summer school.

Request of Subsidy

Marco Miani
The Cyprus Institute
Konstantinou Kavafi, 20
2121, Nicosia
Cyprus
☎ +357-99-01-85-11
✉ m.miani@cyi.ac.cy

Programme Committee
ESIWACE Summer School
University of Reading, UK

February 28, 2020

Dear Programme Committee,

The Cyprus Institute granted me *limited* budget for attending activities involved in scientific research. Therefore, for sake of fairness, I decided to opt for the “Minimal Registration” subsidy scheme (yet including travel subsidy).

This is, I believe, an optimal solution and a fair compromise as it would surely help preventing the premature depletion of my yearly budget and, at the same time, leave more room and possibilities for other attendees whose acces to funding might be limited.

Assuming that travel expenses and participation fees are granted, I would be glad to consider sustaining the costs for lodging, food and domestic transportation (airport transfers).

Thank you very much for kind consideration.

Sincerely Yours,

Marco Miani



Justification For Subsidy

I want a subsidy for Travel from my country to London Because I have a problem of financial approach even if not only subsidize on travel I want to all cost sensitive areas to support me. because am from low income parents and I have low monthly income.

Justification For Subsidy

I want a subsidy for Travel from my country to London Because I have a problem of financial approach even if not only subsidize on travel I want to all cost sensitive areas to support me. because am from low income parents and I have low monthly income.

Dear Sir or madam

It is humbly stated that I'm Subodh Kumar, a Ph.D. scholar (SRF) at National Institute of Technology Rourkela Odisha, India. I am trying to attend the Summer School on Effective HPC for Climate and the Weather course that will be an excellent platform to establish myself and gain new insight into possible research interests. I am excited to be part of this short term summer school training program, which is very helpful in enhancing my knowledge to make effective use of HPC environments and generate insights.

Since I am a Ph.D. scholar here in India (got very less stipend to bear abroad travels for attending such smart program), it is rather challenging to obtain funding for all expenses through a research grant. So I am curious about the airfare, meals, registration fees, and the accommodation funding provide from your side, or I am interested in grants available for Ph.D. students or students like us. I hope you can understand the situation and appreciated help for the poor students who can't afford such a prestigious training program and bear the main expenses like travel journeys, registration fees, Accommodation, and meals.

I am looking forward to your kind consideration and positive reply from your side. I will be very thankful to you.

Thanking you

Yours Sincerely,

SUBODH KUMAR

SRF NIT Rourkela

M.Tech- IIT Delhi

+91 7678483610

(Subodhsingh.iitd@gmail.com)

Skype id- Live:subodhsingh.iitd

JUSTIFICATION FOR THE REQUESTED LEVEL OF SUBSIDY

1. TRAVEL COST

<	20 Aug N/A	21 Aug 527 USD	22 Aug N/A	23 Aug 687 USD	24 Aug 607 USD	25 Aug N/A	26 Aug 527 USD	>
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1 RESULT SORT BY: ▾ SHOW FILTERS

ECONOMY

TIME DURATION

Prices are in **USD** and **ONE WAY** (per passenger).

23 AUG 13:00 24 AUG 17:00 +1 day 29 hrs ⓘ
NLA LHR 2 Stops (BLZ,ADD)

ET 875 Boeing 737-800
ET 710 Airbus A350

DETAILS ▾

From
687 USD ▾

2 RESULTS SORT BY: ▾ SHOW FILTERS

ECONOMY

TIME DURATION

Prices are in **USD** and **ONE WAY**.

29 AUG 21:00 30 AUG 12:10 +1 day 14 hrs 10 mins ⓘ
LHR NLA 1 Stop (ADD)

ET 701 Airbus A350
ET 875 Boeing 737-800

DETAILS ▾

From
532 USD ▾

NLA → LHR 1,219 USD

DEPARTURE Sun, Aug 23rd CHANGE FLIGHT

23 AUG 24 AUG +1 29 hrs ⓘ
13:00 17:00 day 2 (BLZ,ADD)
NLA LHR Stops
ET 875 Boeing 737-800
ET 710 Airbus A350

DETAILS ▾

RETURN Sat, Aug 29th CHANGE FLIGHT

29 AUG 30 AUG +1 14 hrs 10 mins
21:00 12:10 day ⓘ
LHR NLA 1 Stop (ADD)
ET 701 Airbus A350
ET 875 Boeing 737-800

DETAILS ▾

Trip Costs

NLA → LHR 730 USD ⌂
Departing 1:00 pm, on 23 August 2020
Ndola(NLA) London(LHR)
Duration: 29 hrs / 2 Stops (BLZ,ADD)
ET 875 Operated by Ethiopian Airlines
ET 710 Operated by Ethiopian Airlines
Returning 9:00 pm, on 29 August 2020
London(LHR) Ndola(NLA)
Duration: 14 hrs 10 mins / 1 Stop (ADD)
ET 701 Operated by Ethiopian Airlines
ET 875 Operated by Ethiopian Airlines

Adult x 1 730 USD
Hi, do you need any help?

Seats

Extras

1. ACCOMODATION

50 \$ x 6 days = 300 \$

Justification for the requested level of subsidy

I'm currently working in one of TOP 5 University in Pakistan, but our university did not provide any funds for traveling and other training registration. I have only one project and its objective is different so my university will not allow me to take funds from this project. As we are living in developing country and there is no such facility of funding is availability from any Govt. Institutions. This training is necessary for me as well as to my University So you are requested to please provide us fully funded training

JUSTIFICATION FOR THE REQUESTED LEVEL OF SUBSIDY

I am pursuing final semester of my masters in Atmospheric Science from Central University of Rajasthan. As this Summer School on Effective HPC for Climate and Weather is scheduled on 23-28 August 2020, at that time I will be done with my degree and will be no longer a student of this university so in this case my University cannot sponsor me for attending the summer school. And I come from a middle class family, we are three siblings, I am the middle one, my father's income is around 2.16 Lakh Rupees (2710.05 Euro) per year so he cannot afford, that is why I want Subsidy for attending the same.

I will be glad to answer any questions you may have and to see if you need any other information in this regard.

I am very thankful for your valuable time and considerations.

Looking forward to hearing from you,

Sumitra Sharma

Master of Science, Department of Atmospheric Science,
Central University of Rajasthan, India.

Dear All,

1. My main justification for the subsidization, that I have only funding source which is my salary and it is not enough to cover expenses of the summer school. I know that ESIWACE has a few grants for travel, but I hope for your support to attend this important summer school.
2. The requested level of subsidy is the **Travel Subsidy**.
3. A tentative cost estimate: according to Booking website it ranged between 500 £ to 700 £.

Your sincerely,

Gamil

Travel fee: from Dakar to Reading can vary £ 500 to £ 700 without hôtel réservation.

Itinéraire

↗ Dakar - Londres, Samedi 22 Août 2020

↘ Londres - Dakar, Samedi 29 Août 2020

1 Voyageur (1 adulte)



ADULTE

To the Organisers ESiWACE summer school

Justification for the grant request

I would like to apply for attendance subsidy (Full registration fee for the summer school)

In the Sofia University “St. Kliment Ohridski” there are limited funds to support participation of PhD students in conferences, workshops and schools or courses. However, preference is given to the high-level international conferences’ participation. For example, I will be able to attend the European Geophysical Union General Assembly in May 2020. The training courses are covered with less financial resources. My estimation is that I will be able to cover the travel expenses and might be able to cover partly the accommodation.

Yours sincerely,

Mirna Matov

Request for Travel Grant

Dear Organisers,

I am Prashant Singh, PhD student from Department of Physics, University of Mumbai, India. Currently I submitted my PhD thesis titled as “Study for modeling and simulation of convection process over South Asia”. Since I had submitted my thesis, I am not eligible for any grant or fellowship to attend the training/workshop. For time being I had joined an NGO and working on air quality analysis, this kind of work doesn’t fall under interest of current institute as well as its temporary assignment. It’s difficult to arrange fund from my department since Atmospheric sciences is not covered with any funding.

This Summer School on Effective HPC for Climate and Weather will be very helpful to understand the technical insight of tool. It will help me to secure good postdoc and frame good problems related to atmospheric science. I hope for travel grant (travel subsidy) which includes full registration and lumpsum reimbursement of travel cost of about 550 £ from Mumbai to University of Reading. In mean time, I will try to arrange at least travel cost if possible, from some funding agency.

I hope you will consider my application for the school and provide the travel subsidy.

Thanks, and Regards,

Prashant Singh

prashantsinghprs@gmail.com

Since I do not have external funding to support me to join in this summer school and I should miss this summer school if I do not get your funding.

The message below is the estimated cost from my living place to your city

Round-trip ticket: 698GBP (From Vancouver to Lower Earley airport)

Transportation fee: 100 GBP (not sure, from airport to Reading University)

Justification for requesting subsidy

- I am from a developing country
- No support from my Institution
- My research budget is not enough to get flight ticket
- It's by my own I'd like to learn so that I can do my research successfully

**Application for financial support for the
Summer School on Effective HPC for Climate and Weather 2020**

Dear Organizer Committee,

My name is Matías Olmo, and I'm currently doing my PhD at the University of Buenos Aires with a fellowship granted by the National Council of Scientific and Technical Research (CONICET) of Argentina. I am part of two research projects of the University of Buenos Aires and the National Agency of Scientific and Technical Research of Argentina, and a CORDEX Flagship Pilot Study about dynamical and statistical downscaling of daily extreme precipitation events in southeastern South America. My PhD studies focus on the statistical modeling of such events with machine learning techniques, in analyzing their temporal changes in multiple datasets over the region in a context of climate change, and in the generation of associated circulation patterns with neural networks. Finally, I will study how these patterns are projected to change by the end of the century based on the projections by global and regional climate models.

It results of major importance to tell that Argentina's economic problems and financial restrictions present constraints for the participation of scientists in international meetings and courses. Consequently, the institutions where I do my PhD (University of Buenos Aires and the National Council of Scientific and Technical Research of Argentina) and the projects funded by them only allow for minimal international travel expenses. These limitations mean that specially young researchers and PhD students do not often have opportunities to participate in international meetings, so the interaction with other students and researchers abroad is generally restricted. Therefore, considering that I'm very interested in attending this school, since it will provide me the necessary tools and knowledge on managing big data and improving my codes for climate analysis and simulations, I have no other option than to request full financial support to attend this summer school. Travel expenses from Buenos Aires to England may be around £1000-1100. I will be very grateful if it is possible to receive financial support to attend the meeting. Please do not doubt in contacting me in case anything is needed.



Communauté Economique des
Etats de l'Afrique Centrale

SAWIDRA-AC

Projet d'Information Satellitaire et
Météorologique pour la Réduction des
Risques de Catastrophes en Afrique Centrale



Banque Africaine de Développement

Douala, le 16/01/2020

N°071/MAD/CEEAC/SG/SGA-DIPEM/GRC-ACC/SAWIDRA-AC/UCP/RAF.

Le Coordonnateur,

Le Responsable Administratif et Financier

A

Monsieur le Directeur Général d'Ecobank

Douala, République du Cameroun

Objet : Mise à disposition de fonds

Monsieur le Directeur Général,

Nous avons l'honneur de vous demander de bien vouloir ordonner la mise à la disposition de Monsieur TAGUEUMFO KAMMALAC Jores la somme de :CENT MILLE (100.000) FRANCS, en règlement des indemnités de stage du mois de janvier 2020, par le débit du Compte courant en F CFA « CEEAC-PROJET SAWIDRA-AC » numéro : 10029-00002-01332068501-92, ouvert dans les livres d'ECOBANK Agence de Bonanjo à Douala, sur présentation de sa carte nationale d'identité :

Carte d'identité nationale camerounaise n° 110382614

Date d'émission : 28/07/2010

Date d'expiration : 28/07/2020

Veuillez-agréer, Monsieur le Directeur Général, l'expression de notre considération distinguée.

Le Responsable Administratif et Financier

Aristide Bienvé NZOKENÉA
PROJET SAWIDRA-AC
RAF
CEEAC

Le Coordonnateur

Elie MBAITOUBAM

We have so many economic crises in Iran. Every day, our currency value goes down and it fell more than 20 times in comparison to 8 years ago. So I will not be able to participate without grant.

Dear Madam/Sir

I would like to take this opportunity to request you for possible funding so that I can attend the summer school on Effective HPC for Climate and Weather. I am currently in the last year of PhD and working on the research topic, 'Spatial Distribution and Time Series Analysis of Atmospheric Aerosols in Delhi'. The topics to be covered during the summer school would help me develop my skills in analyzing data related to my thesis work. Attending this event will help me acquire knowledge in my field of research as well as to become familiar with the work of other researchers across the globe which will be highly beneficial for my career.

However, without a travel grant it is hardly possible for me to cover the expenditure and attend the school. My institution does not provide funding for attending international events. There are only two major sources of external funding in my country, ie., Department of Science and Technology (DST) and Council of Scientific and Industrial Research (CSIR). I have already utilized their funds for attending international conferences in the last two years (details enclosed in CV). These organizations provide travel grant only once in three years. Hence I cannot apply for further funding here. As a student, I do not have any other sources to support this trip. I will be highly obliged if my application is considered for **travel subsidy**, so that I could attend the esteemed event.

The tentative cost for travel is estimated to be **750 € (round trip)**.

My detailed CV is attached along with this application for your perusal. I will appreciate your feedback on my application.

Thanking You,

Sincerely,

KANIKA TANEJA

PhD Student

Jamia Millia Islamia

Delhi, India

Statement for Subsidization

1. I have been working as a postdoctoral researcher at Cornell University on a specific project under NASA, and the project doesn't have funding for me to attend this workshop. Also at Cornell University, postdocs are not allowed to be Principal Investigator, so I couldn't get my own funding yet.
2. I'd need the travel subsidy if possible as I will be travelling from US.
3. The cost estimate probably will include a round-trip airfare from New York to London in the summertime (~\$1000).

Dear Sir/Madam,

Since I live in Iran as a developing country I need full support for the program.

Best Regards

Morteza Pakdaman

Rene Tato LOUA

CB 201, Cite Conseil Général
20 Avenue Hippolyte Foucque, Saint-Denis
Tel: +262 (0) 69 241 15 10
Email: rene-tato.loua@univ-reunion.fr

Reunion Island 02/03/2020

**University of Reading, Whiteknights Campus,
Reading, UK, RG6 6UR**
Julian Kunkel, j.m.kunkel@reading.ac.uk
Luciana Pedro, l.r.pedro@reading.ac.uk

Subject: Application for Travel Subsidy to attend the Summer School on Effective HPC for Climate and Weather.

Dear M/Ms,

I would like to make an application for subsidy in order I can participate in the Summer School on Effective HPC for Climate and Weather to be held at the University of Reading, UK, from 23 to 28 august 2020.

I am currently at the end of my PhD preparation in the Lab of Atmosphere and Cyclones (LACy), at the University of Reunion Island on the thesis: *Variability and Trends in Meteorological Parameters in Guinea: Analysis of forcings by numerical methods*.

The defense of my thesis is planned for April 30th, 2020, and I suppose to return back home just after my defense. And there is currently not possibility to cover the fees for my participation in this event. However, I wish to attend this training because I am strongly interested by its contents. It is for that reason I apply for a Travel Subsidy (for a tentative cost estimated at 1000£) in order I can participate Summer School on Effective HPC for Climate and Weather. My participation in this School will be a milestone step in my carrier as young researcher and will allow me to discover more scientists of the international scientific community.

Thank you for your time and consideration.

Sincerely,



Rene Tato LOUA

Svante Arrhenius Väg 16C
Stockholm, Sweden

Summer School on Effective HPC for Climate and Weather
University of Reading
Reading, UK

February 27, 2020

Dear all,

I want to express my interest in applying for “travel subsidy” to attend the Summer School on Effective HPC for Climate and Weather. The reason of this is that currently I do not have approved any fund for attending. If in the mean time I get funds to participate I will inform you.

Sincerely,

Alejandro Uribe
PhD candidate
Meteorologiska institutionen (MISU)
Stockholms Universitet.

Request for Subsidisation

Reference to my application for participation in the Summer School I would like to mention that unfortunately, currently no finances are available with my department to provide funding for such participations. Therefore, I submit my application along with request for **full travel subsidy** to attend this summer school. I would not be able to attend such an important activity without your kind support. Estimated current average cost of air fare from Islamabad Pakistan to London Heathrow is **\$750** while accommodation and meals may also kindly be included as per your rules and regulations.

Thank you for your time and consideration. I look forward hear a positive response from you.

Subsidy Justification

Tentative Travel cost

15 days before booking condition

Source	Destination	Amount in INR	Amount in Euro
Mumbai	London (Heathrow)	38,923.00	490.39
London (Heathrow)	Mumbai	25,846.00	325.63
	Total		816.02

Full Package Registration Cost: 800 Euro

Total Tentative Subsidy : 1616.02 Euro

Note: I will contribute for Visa fee, local travel expenditure(India), Travel insurance.

Subsidy Justification

Tentative Travel cost

15 days before booking condition

Source	Destination	Amount in INR	Amount in Euro
Mumbai	London (Heathrow)	38,923.00	490.39
London (Heathrow)	Mumbai	25,846.00	325.63
	Total		816.02

Full Package Registration Cost: 800 Euro

Total Tentative Subsidy : 1616.02 Euro

Note: I will contribute for Visa fee, local travel expenditure(India), Travel insurance.

I am a PhD student at Indian Delhi Institute of Technology (IITD), INDIA, working closely with the high performing computing system for my PhD thesis on “**Improved Convection and Cloud Parameterization: Towards an India Centric Climate Model (ICCM)**”. My work focuses on identifying the various sources of biases in GCMs, and improving the deep convective and cloud processes. In the development of ICCM, I am facing the various challenges in scientific computing related to the software environment, code execution, and big data handling. Since, this summer school is focusing the HPC topics that are largely helpful to my PhD work. The opportunity of attending this summer school will provide me with more advanced scientific views on HPC, which would make me very effective and enhance my scientific ability. Attending this summer school will not only advance my scientific prospective, but also advance my professional life and add value to the resume. I am very much excited to attend this summer school but due to my budget constraint, as in India PhD student gets very less stipend (~500USD per month), it would not be possible to attend this summer school. Hence, I request you to please consider my applicability for this travel subsidy.

Travel subsidy - Jean Iaquinta

Justification for the subsidization

Working in the INES project (Infrastructure for the Norwegian Earth System modelling) I am employed in the Geosciences Department at the University of Oslo, and **there is simply no funding available for the vocational training of the “technical and administrative personnel” like me.**

Research Software Engineers have to provide technical support for the effective use of HPC for students and academic staff, however all the money available goes to the research (we only get our expenses paid to travel once every other year for a project meeting in Bergen).

This has long been identified as an issue and reported to the University unions and management, but in the meantime the IT infrastructures become increasingly complex and we really struggle to keep up with the latest developments.

One cannot simply rely on his existing background, knowledge and experience in such a rapidly changing working environment with new concepts, technologies and tools: pre-exascale, AI, GPUs, cloud computing, containers, performance analyses, etc.

The University of Oslo being relatively small and quite isolated in a small country, it is extremely difficult to find local expertise in these technical areas, especially in the Department or in the Meteorology and Oceanography Section.

This summer school represents a unique opportunity for me to get access to high-level training and be acquainted with other software engineers and scientists, but without full subsidy, I will not be able to attend.

Requested level of subsidy: Travel subsidy and full package registration.

Tentative cost estimate (for travel subsidy): Total: 2067NOK (~171GBP)

Including:

Train from Oslo-Central station to Oslo-Gardermoen and return: 396NOK

Plane from Oslo-Gardermoen to London-Gatwick and return: 1371 NOK

Train from London-Gatwick to Reading and return: 300NOK



UNIVERSITY OF CAPE TOWN
IYUNIVESITHI YASEKAPA • UNIVERSITEIT VAN KAAPSTAD

African Climate & Development Initiative

Geological Sciences Building, University of Cape Town
7701, Rondebosch, South Africa

Joyce Kimutai

Tel: +27 648680118

E-mail: kimutaijoy@gmail.com
kmtjoy001@myuct.ac.za

03 March 2020

To
HPS Summer School Planning Committee,

Re: Application for travel subsidy

I hereby submit my request for travel subsidy to attend HPS Summer School in University of Reading scheduled for August 2020. I am a PhD student on scholarship at African Climate Development Institute, University of Cape Town, South Africa. Also, a Meteorologist with Kenya Meteorological Department, but currently on study leave. The allocation for conference/workshop attendance as part of my scholarship has since run out.

This is a result of a 2-month research visit at University of Oxford, one summer school and two conferences attended in 2019. Also, as stipulated for employees on study leave, I do not draw salary from my employer.

My research works seeks to understand the role of anthropogenic climate change in extreme weather events in East Africa, particularly floods and droughts. This work requires use of high-resolution climate models to effectively capture and simulate processes that result in extreme events in East Africa. There exist limited capabilities in application of HPC in weather forecasting and climate prediction in Kenya and the wider Horn of Africa. The largest support of HPC in Africa is currently provided by the Centre for High Performance Computing (CHPC) in Cape Town, South Africa.

Kenya is one of the Square Kilometer Array (SKA) partner countries in an ongoing HPC Ecosystems Project, administered by CHPC, responsible for the distribution and deployment of decommissioned HPC hardware as mid-tier systems to research institutions within Africa. The current focus of the project is to support HPC development in the SKA partner countries across Africa through enabling computational research initiatives and developing human capital in HPC. Kenya Education Network (KENET) is supporting a special interest group, Computational Modeling and Materials Science, by facilitating workshops on the use of HPC resources.

I'm a registered user to both local and international research infrastructure like Jasmin (UK) and the Climate System Analysis Group (CSAG, University of Cape Town) servers etc.

Cost estimate: Air fare from Cape Town, South Africa - Heathrow, United Kingdom - £ 750

Yours Sincerely,
Joyce Kimutai