

CURRICULUM-VITAE

Alok Kumar Pandey, PhD
Assistant Professor (on contract)
Department of Environmental Sciences
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CURRENT POSITION

Central University of Haryana
Assistant Professor, Department of Environmental Sciences **April 2017 – Present**

Coordinator
ISRO'S IIRS EDUSAT Programme @ Central University of Haryana

RESEARCH AND TEACHING INTERESTS

- Remote Sensing & GIS
- Climatology and Meteorology
- Biodiversity
- Atmospheric Sciences
- Environmental Modelling
- Urban Climate

EDUCATION

Jawaharlal Nehru University New Delhi, India
Ph.D., Environmental Sciences 2017

Thesis Title: Satellite Derived Spatio-Temporal trends of Air Quality over Indo -Gangetic Plain
Thesis submission date: 21st July 2016 **Thesis award date: 28th February 2017**

Jawaharlal Nehru University New Delhi, India
M.Phil., Environmental Sciences (Course work only) 2011

Patna University Patna, India
M.Sc., Environmental Science and Management 2010

Professional Qualification

- ❖ Short Course in **Remote Sensing and Image Interpretation - Indian Institute of Remote Sensing, Dehradun, India**

ACADEMIC ACHIEVEMENTS

- ❖ Visiting Research Student of the University of Edinburgh UK under the **Netwon-Bhabha PhD programme India (DST) and UK (British Council)** **(January – June 2016)**
- ❖ Recipient of **Inspire Fellow (Fellowship)** - Department of Science & Technology (DST), India
- ❖ Qualified UGC-NET Examination in Environmental Sciences
- ❖ Qualified ARS-NET Examination in Environmental Sciences
- ❖ Qualified GATE Examination in Life Sciences
- ❖ Qualified CSIR-UGC NET & Junior Research Fellowship in Earth, Atmospheric, Ocean & Planetary Sciences

PUBLICATIONS

Peer-reviewed Refereed Journals:

- 1) **Alok Kumar Pandey**, Amit Kumar Mishra, Ritesh Kumar, Shivesh Berwal , Rakesh Devadas, Alfredo Huete and Krishan Kumar, “*CO variability and its association with household cooking fuels consumption over the Indo-Gangetic Plains*”, **Environmental Pollution**, 2017, 222, 83 – 93, ELSEVIER <http://dx.doi.org/10.1016/j.envpol.2016.12.080> (ISSN: 0269-7491)
- 2) **Alok Kumar Pandey**, Sachchidanand Singh, Shivesh Berwal, Dinesh Kumar, Puneeta Pandey, Amit Prakash, Neelesh Lodhi, Sandeep Maithani, Vinod Kumar Jain and Krishan Kumar, “*Spatio-Temporal Variation of Urban Heat Island over Delhi*” **Urban Climate**, 2014, 10, 119 – 133, ELSEVIER <http://dx.doi.org/10.1016/j.uclim.2014.10.005> (ISBN/ISSN No. 2212-0955)

Conference Papers:

- 3) **Alok K. Pandey**, Ram P. Kumar and Krishan Kumar “*Satellite and ground based seasonal variability of NO₂ and SO₂ over New Delhi, India*”, Proc. SPIE 9640, Remote Sensing of Clouds and the Atmosphere XX, 96400U, 2015, <http://dx.doi.org/10.1117/12.2193542> (ISBN: 9781628418507)
- 4) Berwal, Shivesh, Dinesh Kumar, **Alok Kumar Pandey**, Vinay Pratap Singh, Ritesh Kumar, and Krishan Kumar “*Dynamics of thermal inertia over highly urban city: a case study of Delhi*” In SPIE Remote Sensing, pp. 100080E-100080E. International Society for Optics and Photonics, 2016, , <http://dx.doi.org/10.1117/12.2241741> (ISBN: 9781510604209)
- 5) Purnima Bhardwaj, Alok Kumar Pandey, Krishan Kumar, V. K. Jain, "Seasonal variability of aerosols and their characteristics in urban and rural locations of Delhi-NCR", *Proc. SPIE 10431, Remote Sensing Technologies and Applications in Urban Environments II*, 1043109 (4 October 2017); <http://dx.doi.org/10.1117/12.2278506>

Other Publications:

- 6) **Alok K Pandey**, Ranbeer S Rawal, Sanjay Gairola, Indra D Bhatt, Ram P Kumar, Nivedita Priyadarshini and Ashutosh Kumar, “*Protection From Anthropogenic Disturbances Contributed to The Recovery of Vegetation in The Kumaon Himalaya: A Case Study*” International Journal of Geology, Earth & Environmental Sciences, 2017 Vol. 7 (2) pp.39-50 (ISSN: 2277-2081)
- 7) R. P Kumar, **A. K Pandey**, R Kumar, P Kashyap, K Kumar, “*Assessment of Source Profile of Nonmethane Hydrocarbon in the Ambient Air of Metro City Delhi, India*”. Current World Environment, 2017, 12(2) (ISSN: 0973-4929)
- 8) Nivedita Priyadarshini, Reeta Kumari, Ashutosh Kumar, **Alok Kumar Pandey**, “*Diversity and Seasonal Variation of Spiders Community in a Tropical Region: A Case Study in Saran, Bihar, India*” 2017, Ecology, Environment and Conservation (ISSN: 0971-765X) (In Press)
- 9) Purnima Bhardwaj, "Bhupendra Pratap Singh, **Alok Kumar Pandey**, Krishan Kumar, V. K. Jain “*Characterization and morphological analysis of summer and wintertime PM_{2.5} aerosols over urban-rural locations in Delhi-NCR*”, International Journal of Applied Environmental Science, 2017 Volume 12, Number 5 (2017), pp. 1009-1030 (ISSN 0973-6077)
- 10) R. P Kumar, **A. K Pandey**, K. Kumar “*A Review on the Atmospheric Non Methane Hydrocarbons (NMCH) Study in India*”, Current World Environment 2017; 12 (2), (ISSN: 0973-4929)
- 11) P Bhardwaj, **A. K Pandey**, K Kumar, V. K. Jain, “*Spatial variation of Aerosol Optical Depth and Solar Irradiance over Delhi -NCR during Summer season*”, Current World Environment 2017;12(2), (ISSN: 0973-4929)
- 12) N Priyadarshini, R Kumari, R N Pathak, **A K Pandey**, 2015, “*Biodiversity and Community structure of spiders in Saran, part of Indo-Gangetic Plain, India*”, Asian Journal of Conservation Biology, 2015, Vol. 4 No. 2, pp. 121-129 (ISSN 2278-7666)

PROFICIENCY

Modelling:

- UKCA-HadGEM3 UM-8.4
- Statistical Models

Computer:

- User level proficiency in Operating Systems – Mac, Windows, & Linux
- Mathematical software's like : Python, Matlab, SciLab and SPSS
- Remote sensing-GIS Software's like: ArcGIS, ENVI, and Erdas Imagine

Instrumentation:

- Handheld Field Spectro – Radiometer
- MICROTOPS II
- Gas Chromatography (GC)

CONFERENCE/WORKSHOP PRESENTATIONS

- ❖ **Alok Pandey**, Krishan Kumar; Poster entitled – “Spatio-temporal air quality trends over the Indo-Gangetic Plain” at “**UKCA Theory and Practice Workshop**” at the Department of Chemistry, **University of Cambridge, Cambridge, UK** (4th – 08th January 2016) – **Best poster award**
- ❖ **Alok Pandey**, Ram Kumar, Krishan Kumar, Paper Title: “Satellite Based AOD, NO₂, SO₂ and HCHO Seasonal Variation over the Indo Gangetic Plain, India” at the **Atmospheric Sciences and Application to Air Quality (ASAAQ) Conference Kobe, Japan** (November 11th – 13th, 2015)
- ❖ **Alok K. Pandey**, Ram P. Kumar and Krishan Kumar “Satellite and ground based seasonal variability of NO₂ and SO₂ over New Delhi, India” at the **SPIE Remote Sensing Conference, Toulouse, France** (21st – 24th September 2015)

Training / Workshop / School / Symposium

1. Workshop on the **Advanced Institute on Disaster Risk Reduction with Systems Approach for Slow-Onset Climate Disasters (AI-SOCD)** at Academia Sinica, **Taipei, Taiwan** (10th July – 14th July, 2017)
2. GIAN (Global Initiative For Academic Network) course on “**Spatial Data Analysis**” at **Jawaharlal Nehru University, New Delhi** (26th – 30th December 2016)
3. National Centre for Atmospheric Sciences (NCAS) “**Introduction to Scientific Computing Course**” at the **University of Leeds, Leeds, UK** (11th - 15th April 2016)
4. Attended the “**UKCA Theory and Practice Workshop**” funded by the National Centre for Atmospheric Sciences (NCAS) at the **Department of Chemistry, University of Cambridge, Cambridge, UK** (4th - 08th January 2016)
5. ISPRS Summer School on **Open Source GIS** conducted by **Indian Institute of Remote Sensing (IIRS), Dehradun** (July 6th - 10th, 2015)

6. Training course on “**Glaciers, Climate Change and Remote Sensing**” sponsored by Divecha Centre for Climate Change, Department of Science and Technology, Govt. of India and University of Iceland held at **Indian Institute of Science, (IISc) Bangalore** (08th – 19th June 2015)
7. BRNS-AEACI Eight **School on Analytical Chemistry (SAC-8)** Jointly organised by BARC, Mumbai and CSIR-NML at CSIR-National Metallurgical Laboratory, Jamshedpur (14th – 21st April 2014)
8. Winter school on Atmospheric “**Aerosol Physics, Measurement and Sampling Techniques**”- **Indian Institute of Technology, Madras** (13th -16th January 2014)
9. 1st COSPAR Symposium on “**Planetary System of our Sun and Other Stars and the Future of Space Astronomy**” at Bangkok Thailand (11th - 15th November 2013)
10. Capacity Building Workshop entitled “**Atmospheric Correction of Earth Observation data for Environmental Monitoring: Theory & Best Practices**” jointly organized by **COSPAR and GISTDA at Bangkok, Thailand** (4th - 8th November 2013)
11. SERB School on “**Weather and Climate in Tropics**” sponsored by Science and Engineering Research Board, Department of Science and Technology, Govt. of India held at **Indian Institute of Technology, Delhi** (3rd June - 26th June 2013)
12. Management Development Programme on **Statistical Modeling for Data Analysis – Indian Institute of Technology, Kharagpur** (10th December – 15th December 2012)
13. Participated as a **ISRO Sponsored Delegate in 39th COSPAR Scientific Assembly 2012; Theme: Space for the Benefit of Mankind** at Mysore (14th July - 22nd July 2012)
14. Faculty Development Programme on “**Pattern Recognition & Image Processing Using MATLAB**” – **Delhi Institute of Advance Studies, Delhi** (1st June – 2nd June 2012)
15. Poster Presentation in National Seminar on **Environment Pollution and Bioremediation** entitled “**A comparative study of the spectral characteristics of noise levels due to dusk chorus at different types of habitats in Delhi**” – **Jawaharlal Nehru University, New Delhi** (28th December -29th December 2011)
16. National Seminar on **Modern and Palaeo Sediments: Implication to climate, Water Resources and Environmental Changes & XXVIII Convention of Indian Association of Sedimentologists** – **Jawaharlal Nehru University, New Delhi** (24th November – 26th November 2011)
17. Workshop on **Advance Soft Computing Techniques in Hydrology and its Application – National Institute of Hydrology, Roorkee** (20th June – 24th June 2011)
18. Short term course on **Aerosol properties: Health, Regional Air Quality and Climate – Indian Institute of Technology, Delhi** (1st April - 4th April 2011)

Grant/Support received to attain Conference/Workshops

INTERNATIONAL

- AI-SOCD Travel Grant – AI-SOCD Workshop, Taipei, Taiwan, 2017
- NCAS Travel Support – UKCA Theory and Practice Workshop” at University of Cambridge, Cambridge, UK, 2016
- ASAAQ Travel Support – ASAAQ Conference Kobe, Japan, 2015
- SPIE Travel Grant – SPIE Remote Sensing Conference, Toulouse, France, 2015
- COSPAR Travel Support – Capacity Building Workshop, Bangkok, Thailand 2013

NATIONAL

- CICS Travel Grant – SPIE Remote Sensing Conference, Toulouse, France, 2015
- ISRO Travel Support – For 39th COSPAR Scientific Assembly, Mysore 2012

Membership

Name of body	Type of membership	From Date	Positions held
COSPAR	LIFE	14/07/2012	Associates
AEACI - BARC	LIFE	25/04/2014	Member

References

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