

Curriculum Vitae

Dr. Shivesh Berwal



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CURRENT POSITION

Assistant Professor (Adhoc Faculty) in SPM College for Women, University of Delhi (DU), from September 2019 onwards till date.

EDUCATION

PhD from the School of Environmental Sciences, Jawaharlal Nehru University- 2018 (*Research specialization: Atmospheric Sciences*)

Title of PhD Thesis: “Thermal Inertia and its interaction with Spatio and Temporal dynamics of Surface Urban Heat Island formation over Delhi”

M.Sc in Environmental Sciences and Engineering (6.88 CGPA) from Guru Jambheshwar University of Science and Technology, Hisar (2011).

B.Sc with Physics, Chemistry and Mathematics (71.3%) from Govt. PG College, Hisar (2009).

AREA OF INTERESTS

- Remote Sensing and GIS, Climate modelling, Data analysis

**RESEARCH
PUBLICATIONS**

- **“Spatio- Temporal Trends of Urban Heat Island Over Delhi”** in Elsevier journal of "Urban Climate 10 (2014) 119-133".
- **"CO variability and its association with household cooking fuels consumption over the Indo-Gangetic Plains"** in Elsevier journal of "Environmental Pollution (2016) 1-11".
- **"Dynamics of Thermal Inertia over Highly Urban City: a case study of Delhi"** at Proc. of SPIE Vol. 10008 100080E-1 (2016).

**INVITED
SPEAKER**

- Invited speaker at International conference on Climate change, Sustainable development & Smart Agriculture (ICSSA-2023) at Kalinga University, Raipur, Chhatisgarh from 06th April, 2023.
- Delivered guest lecture as resource person on “Climate Change: Role of Sustainable Development Goals” as a resource person on 3rd December 2022, at New Arts, Commerce & Science College, Ahmednagar.

**INTERNATIONAL
PAPER
PRESENTED**

- **“Thermal Inertia and Urban heat Island impact on climatology of Delhi”** as an oral presentation at 42nd COSPAR Scientific Assembly, 14 - 22 July 2018, Pasadena, CA, United States of America.
- **“Thermal Inertia and its Correlation with Urban Heat Island and Land use/Land cover over Delhi-National Capital Region”** presented at American Geophysical Union- Fall Meeting 2017 held at New Orleans, United States of America from 11-15 December, 2017.
- **“Urban heat island and its relationship with land-use/land-cover classification over Delhi-NCR”** as an oral presentation at SPIE Remote Sensing Conference held at Warsaw, Poland on 11-14th September, 2017.
- **"Dynamics of Thermal Inertia over Highly Urban City: a case study of Delhi"** as an oral presentation at SPIE Remote Sensing Conference held at Edinburgh, Scotland on 26-29th September, 2016.
- **"Spatial Dynamics of Thermal Inertia and its relationship with Urban Heat Island over Delhi-NCR"** as an oral presentation at International Conference on Urban Geoinformatics held during 22-23 Feb, 2017 at The Energy and Resources Institute (TERI), New Delhi, India.

- "Apparent Thermal inertia mapping of Delhi using MODIS data" as an oral presentation at conference on Space Technology for Sustainable Development held during 21-22 March, 2017 at Haryana Space Application Centre (HARSAC), Hisar, India.

**INTERNATIONAL
WORKSHOPS
AND SCHOOLS**

- Participated in the World Sustainable Development Summit (WSDS) held at Indian Habitat Centre, New Delhi from 22-24 February 2023.
- Participated in Second United Nations World Geospatial Information Congress in Hyderabad, India, from 10-14 October 2022.
- “Urban Climate Summer School” organized by ‘The Research Institute of the University of Bucharest’ at Bucharest, Romania held during 27-31’August, 2018.
- ‘NCAS Atmospheric Measurement Summer School’ organized by National Center for Atmospheric Science (NCAS) from 8th-20th September, 2013 held at Isle of Arran, Scotland, UK.
- ‘NCAR-NCAS ‘WRF tutorial 2013’ from 8th-11th October, 2013 held at York, England, United Kingdom.

**NATIONAL FDP,
WORKSHOPS,
SCHOOLS AND
SEMINARS**

- One week Interdisciplinary Faculty Development Programme on “Environmental Sustainability & Disaster Risk Reduction” from 4th– 9th, March 2024) organised by Swami Shraddhanand College, University of Delhi in collaboration with Mahatma Hansraj Malaviya Mission Training Center, Hansraj College, University of Delhi.
- One week (Online) Interdisciplinary Faculty Development Programme on “Environment Sustainability & Climate Change” (April 4th– 8th, 2022) organised by Miranda House, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi.

- Faculty Development Programme on “Environmental Audit” from 28th June-2 July, 2021 organized by department of Botany and Zoology of Kirori Mal College, University of Delhi.
- Four Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" from June 04 - July 01, 2020 by MHRD.
- Two Weeks Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS:2.0" from May 18 - June 03, 2020 by MHRD.
- One Week Faculty Development Programme on "Open Source Tools for Research" from June 08 - June 14, 2020 by MHRD.
- One week faculty development Programme on Quantum Geographic Information System (QGIS) from 1-5 June, 2020 organized by Don Bosco college of Engineering, Goa and IITB.
- Two days Faculty training programme for online teaching on Microsoft team software from 30-31st August 2020 by SPM college, DU.
- Online course on “Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials” which was conducted by Indian Institute of Remote Sensing (IIRS) Dehradun and ISRO, during 13-06-2020 to 01-07-2020.
- Faculty Development Program on “Environmental sustainability and Climate Change” from 4-8 April 2022 organized by Hansraj College in collaboration with Miranda House, University of Delhi.
- 2 week special course on “Microwave Remote Sensing Applications’ during 11-21 May, 2015 by NRSC and ISRO.
- ‘Remote Sensing, Geographical System & Global Navigation Satellite System’ conducted by Indian Institute of Remote Sensing from 04-08-2014 to 14-11-2014.
- TERI-BCCR Climate Research School-II ‘Beyond Regional Climate Modeling- Best Practices and New Insights’ during 01-05 October 2012 at New Delhi.

- 1st training workshop on ‘Climate Modeling: Simulations and Analysis’ sponsored by DST, held during 9-21 December 2013 at the Centre for Atmospheric Sciences, Indian Institute of Technology, Delhi (IIT D).
- BRNS-AEACI Ninth School on Analytical Chemistry (SAC-9) From Oct 27th to Nov 3rd, 2014 at Atomic Minerals Department, Shilong.
- "Geospatial Technologies for Urban Planning" conducted by Indian Institute of Remote Sensing (IIRS) from 11-02-2016 to 15-04-2016.
- 'Atmospheric Aerosol Physics, Measurements, and Sampling Techniques' held during 16-19 February, 2016 at Indian Institute of Technology (IIT) Madras, Chennai.
- 'Workshop on Climate Impacts on Health in Asia' organized by 'The Abdus Salam International Centre for Theoretical Physics (ICTP)' held at Indian Institute of Technology (IIT) Delhi during 05-16 December, 2016.
- 'National training workshop on Green House Gas measurements at IITM, Pune (10-14 July 2017).
- Participated in “National Wastes to Wealth” conference held at ASSOCHAM (The Associated Chambers of Commerce and Industry of India) on 14th November, 2011 at New Delhi.

**INTERNATIONAL
ABSTRACT
PUBLISHED**

- Abstract of “Directional analyses of UHI intensity over Delhi with respect to variations in vegetation cover in the National Capital Region of India” at 9th International Conference on Urban Climate during 20-24 July, 2015 at Toulouse, France.
- Abstract of "Spatio-Temporal Variation of Aerosol and its relation to vegetation cover over mega-city New Delhi" at SPIE Remote Sensing Conference held during 21-24 September, 2015 at Toulouse, France

**AWARDS
&
DISTINCTIONS**

- (UGC-BSR) University Grant Commission -Basic Scientific Research Fellowship for pursuing PhD.
- UGC- National Eligibility Test (NET) for Lectureship for June 2012 and December 2014.
- Student Travel grant for attending SPIE Remote Sensing conference held at Edinburgh, Scotland, 2016.
- Student travel award winner for “American Geophysical Union- Fall Meeting ” held at New Orleans, United States of America from 11-15 December,2017.