

Curriculum Vitae

Dr. SWATI MAURYA

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Department of Environmental Science
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RESEARCH INTEREST

Remote sensing, GIS, Flood, Watersheds Characterisation, Hydrological forecasting, Rainfall-runoff modelling, Climate change analysis

EDUCATION

Ph.D in Environment and Sustainable Development (2016-2020)

Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi, UP, India

1. Thesis title: Watersheds Characterization And Discharge Estimation Using Rainfall-Runoff Models For Soil And Water Conservation

M.Phil in Environment and Sustainable Development (2015-2016)

Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi, UP, India

1. Thesis title: Morphometric Analysis of Pahuj Basin For Soil And Water Conservation

Masters of Science, Environmental Science (2012-2014)

Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi, UP, India

2. *Dissertation project* Preparation of Spatial database of all Urban Elements for the sake of Environmental Assessment and Planning

Summer training (1 month)

Central Mining Research Institute (CMRI), DHANBAD, Jharkhand

3. *Project report* on Estimation of portable photosynthesis system in Vegetation of mine area by using LICOR6400-XT

AWARDS

4. University Grant Commission (UGC) NET December-2014

5. Best poster award in National Conference, Emerging scenario of Mahamana Ganga River Development & Water Resource Management, IESD, Banaras Hindu University,2017
6. Reviewer excellence award in the journal of earth system science-2017

SEMINARS AND WORKSHOPS

1. Participant, EGU General Assembly on Kalman filter integrated with neural network for bias correction of WRF downscaled land surface temperature (2019).
2. Participant, International Conference on Water and Wastewater Management and Modelling(ICWWMM) on Rainfall forecasting using triple exponential smoothing state space model organized by Central University of Jharkhand Brambe,Ranchi, India January 16-17, 2018 (2018).
3. Attended a National workshop on Techniques in Hyperspectral Data Analysis and Processing at IESD, Banaras Hindu University, Varanasi (2017).
4. Participant, National Conference on Managing Soil Resource for Environmental Sustainability: Challenges & Perspectives (MSRES) on Soil erosion modelling using soil parameters and geospatial technique organized by Banaras Hindu University, Varanasi.(2017).
5. Participant, National Conference on, Emerging scenario of Mahamana Ganga River Development & Water Resource Management,poster presentation on Morphometric analysis of Mahi River Basin for Water Resource Management, organized by Banaras Hindu University, Varanasi.(2017).
6. Prashant K Srivastava, S. Maurya., V. P., 2017. Retrieval of Soil Moisture Deficit Through Long Term Climate Change Initiative (CCI) Soil Moisture Data and Probability Distributed Model, ACRS conferences.
7. Participant, National Conference on Water and sustainable development, Oral presentation on Prioritization of Pahuj river basin mini-watersheds for water resource management using geospatial analysis organized by Central University of Jharkhand Brambe, Ranchi, 2016
8. Participated,National Level Second Graduate Seminar organized by Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi, India(2016).
9. Participant, Second Graduate Seminar on Environment and Sustainable Development, BHU, Varanasi, 2015
10. Participant, Second Tier training course on Village level aquifer management plan organised by central ground water board, northern region Lucknow, BHU,2015
11. Participant, Third Tier training course on Sustainable development and management of ground water organized by central ground water board, northern region Lucknow, in BHU,2014
12. Participant, RIO +21 IYWC India program as a short term coarse study in water cooperation,2014.

1. **Swati Maurya**, Prashant K. Srivastava, Lu Zhuo, Aradhana Yaduvanshi, R K Mall, "Future climate change impact on the streamflow of Mahi river basin under different general circulation model scenarios" *Water Resource Management*, (2023) 11269-022-03372-1.
2. **Swati Maurya**, Prashant K. Srivastava, Aradhana Yaduvanshi, Akash Anand and George P. Petropoulos, Lu Zhuo, R.K. Mall, "Soil erosion in future scenario using CMIP5 models and earth observation datasets" *Journal of Hydrology*, 594 (2021) 125851.
3. **Swati Maurya**, Prashant K. Srivastava, Manika Gupta, Tanvir Islam & Dawei Han, "Integrating Soil Hydraulic Parameter and Microwave Precipitation with Morphometric Analysis for Watershed Prioritization" *Water Resource Management*, (2016) 30:5385–5405.
4. **Swati Maurya**, Prashant K. Srivastava, "Prioritization of Pahuj river basin mini-watersheds for water resource management using geospatial analysis", In book: *Water and Sustainable Development*, New Delhi Publisher, India, ISBN: 978-93-85503-22-1, 2016.
5. Abhishek Agrawal, Prashant Kumar Srivastava, Vinod Kumar Tripathi, **Swati Maurya**, Reema Sharma, Shrinivasa D.J. "Future projections of crop water and irrigation water requirements using a bias-corrected regional climate model coupled with CROPWAT" *Water and Climate change*, (2023) 14 (4): 1147–1161.
6. Rajani Kumar Pradhan, Prashant K. Srivastava, **Swati Maurya**, Sudhir Kumar Singh, and Dhruvesh P. Patel, "Integrated framework for soil and water conservation in Kosi River Basin," *Geocarto International*, pp. 1-20, 2018.
7. **Swati Maurya**, Prashant K. Srivastava, "Rainfall forecasting using triple exponential smoothing state space model", In book: *Wastewater Reuse and Watershed Management: Engineering Implications for Agriculture, Industry, and the Environment*, p. 381, 2019, ICWWMM Proceeding, ISBN:978-1-77188-746-5.
8. Varsha Pandey, **Swati Maurya**, Prashant K. Srivastava, "Assessment of agricultural drought using a climate change initiative (CCI) soil moisture derived/soil moisture deficit: case study from Bundelkhand", In book: *Wastewater Reuse and Watershed Management: Engineering Implications for Agriculture, Industry, and the Environment*, ICWWMM Proceeding, p. 63, 2019, ISBN: 978-1-77188-746-5.
9. Rajani Kumar Pradhan, **Swati Maurya**, and Prashant K. Srivastava, "Morphometric analysis and prioritization of sub-watersheds in Kosi river Basin using remote sensing and GIS", In book: *Water and Wastewater Management: Engineering Implications for Agriculture, Industry, and the Environment*, ICWWMM Proceeding, p. 353, 2019, ISBN:978-1-77188-746-5
10. Swati Suman, **Swati Maurya**, Varsha Pandey, Shailendra Pratap, Book review: "Thermal infrared remote sensing sensors, methods, application" , *Bulletin of Environmental and Scientific Research*, vol. 5, 2016.

SKILLS

- Computing and Programming: MATLAB, R language, Linux/Unix, ArcGIS, ENVI
- Physical and Numerical models: SWAT, IHACRES ,FUSE and PDM model

