



## Faculty Details Proforma



Title	Dr.	First Name	Ashwani	Last Name	Agnihotri	Photograph
Designation		Assistant Professor in Geography				
Address		Flat No-402, Galaxy Apartment, Sector- 16 B Dwarka				
Date of Birth		01/02/1989				
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Web-Page		NA				
<b>Educational Qualifications</b>						
<b>Degree</b>		<b>Institution</b>			<b>Year</b>	
UG		CSJM University, Kanpur,			2010	
PG		Banaras Hindu University, Varanasi,			2012	
M.Tech		University of Madras, Chennai			2014	
Ph.D		Indian Institute of Technology (BHU), Varanasi			2020	
<b>Career Profile</b>						
<b>Designation</b>		<b>University</b>			<b>Duration</b>	
Senior Project Associate		Indian Institute of Technology, Kanpur			September 2021 To March 2023	
Assistant Professor		Shaheed Bhagat Singh College, University of Delhi.			April 2023 To till date	
<b>Areas of Interest / Specialization</b>						
1. Fluvial geomorphology, 2. Remote sensing and GIS analysis 3. InSAR time series analysis 4. Drone-based imaging and data analysis						
<b>Papers Taught</b>						
1. Sustainable Resource Development 2. Statistical methods in Geography						
<b>Research Guidance</b>						
NA						

## Publications Profile

1. **Agnihotri, AK**, Anurag Ohri, and Sachin Mishra. (2018) "Channel planform dynamics of lower Ramganga River, Ganga Basin, GIS and Remote Sensing analyses." *Geocarto International* 1-37.
2. **Agnihotri, A. K.**, Ohri, A., Gaur, S., Das, N., & Mishra, S. (2019). Flood inundation mapping and monitoring using SAR data and its impact on Ramganga River in Ganga basin. *Environmental monitoring and assessment*, 191(12), 760.
3. Maurya, Satya Prakash, and **Agnihotri, AK.** "Corrigendum to "Evaluation of course change detection of Ramganga river using remote sensing and GIS, India"[Weather and Climate Extremes 13 (2016) 68–72]." *Weather and Climate Extremes* 17 (2017): 59.
4. **Agnihotri, AK**, Ohri, A., Mishra, S., (2018). "Impact of green spaces on the urban microclimate through landsat 8 and TIRS data, in Varanasi, India". *International journal of environmental research and development*, 7(1), 72-80.
5. Mishra, S., Tiwary D., Ohri A. **Agnihotri, AK**, 2018. "Spatial analysis of groundwater quality around MSW landfill site". *Nature Environment and Pollution Technology*, 17(3): 393-395.
6. Mishra, S., Tiwary, D., Ohri, Agnihotri, **Agnihotri, AK**, "Assessment of groundwater quality using WQI and GIS near the Karsara municipal landfill site, Varanasi, India". *Arabian Journal of Geosciences* (2018) 11:252.
7. Akhtar, J. Mishra, S., Ohri, A. Tiwary, D. **Agnihotri, AK**, (2018). Assessment of water quality of River Assi by using WQI, Varanasi, India. *International journal of environmental research and development*, 7(1), 114-121.
8. Ashish Kumar Vishwakarma, **Agnihotri, AK**, Rajesh Rai<sup>1</sup>, B. K. Shrivastva<sup>1</sup>, Sachin Mishra (2018) " Impact assessment of a mine subsidence on native vegetation of south eastern coalfields, india. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume XLII-5.
9. Ankit Pandey, **Ashwani Kumar Agnihotri**, Akhilesh Kumar Mishra,(2017) Spatial Pattern of Land Resource Utilization in Mirzapur District, Uttar Pradesh, India in *Interdisciplinary Journal of Contemporary Research*, Vol. 4, No. 1.
10. Mishra, S., Tiwary, D., Ohri, A., & **Agnihotri, A. K.** (2019). Impact of Municipal Solid Waste Landfill leachate on groundwater quality in Varanasi, India. *Groundwater for Sustainable Development*, 9, 100230.
11. Das, N., Kumar, V., Tewari, A., **Agnihotri, A. K.**, Gaur, S., & Ohri, A. (2019, November). Periodic Monitoring of Rivers Using Portable Sensor System. In 2019 8th International Conference System Modeling and Advancement in Research Trends (SMART) (pp. 110-114). *IEEE*.
12. Das, N., Bhattacharjee, R., Choubey, A., **Agnihotri, A. K.**, Ohri, A., & Gaur, S. (2022). Analysing the change in water quality parameters along river Ganga at Varanasi, Mirzapur and Ghazipur using Sentinel-2 and Landsat-8 satellite data during pre-lockdown, lockdown and post-lockdown associated with COVID-19. *Journal of Earth System Science*, 131(2), 1-28.
13. Das, N., Bhattacharjee, R., Choubey, A., **Agnihotri, A. K.**, Ohri, A., & Gaur, S. (2022). Analysis of the Spatio-Temporal Variation of the Thermal Pattern of River Ganges in Proximity to Varanasi, India. *Journal of the Indian Society of Remote Sensing*, 1-16

14. Bhattacharjee, R., Gupta, A., Das, N., **Agnihotri, A.K.**, Ohri, A. and Gaur, S., 2022. Analysis of algal bloom intensification in mid-Ganga river, India, using satellite data and neural network techniques. *Environmental Monitoring and Assessment*, 194(8), pp.1-20.
15. Bhattacharjee, R., Gaur, S., Das, N., **Agnihotri, A.K.** and Ohri, A., 2023. Analysing the relationship between human modification and land surface temperature fluctuation in the Ramganga basin, India. *Environmental Monitoring and Assessment*, 195(1), p.104.

#### **Book Chapter**

1. Ashwani Kumar Agnihotri, Anurag Ohri. Sachin Mishra, Ankit Pandey (2017) "Remote sensing Based Assessment of Urban Heat Island from TIRS data -A case study of Varanasi city, India"(Ed) *Advance in Urban Studies in India*.
2. Nilendu Das, Anurag Ohri, Sachin Mishra, Padam Jee Omar, Ashwani Kumar Agnihotri (2018) "Wetland Dynamics using Geo-Spatial Technology" *Advances in Water Resources Engineering and Management*.
3. Mishra, Sachin, Shivam Tripathi, Dhanesh Tiwary, Anurag Ohri, Ashwani Kumar Agnihotri, and Ashish Kumar Vishwakarma. "Application of Visual MODFLOW in Groundwater Flow Modeling at the Left Crescent of the Ganga River, Varanasi, India." In *Fate and Transport of Subsurface Pollutants*, pp. 105-124. Springer, Singapore.

#### **Conference/ workshop organized**

1. Successfully organized one-day national workshop as a member of organizing committee on mitigating the impact of climate change on Indian Agriculture jointly organized by the Department of Civil Engineering IIT (BHU) and the Department of Civil Engineering IIT Roorkee.
2. Successfully organized a three-day International conference as a member of the organizing committee on River Health: Assessment to Restoration" (RHAR-2019) Department of Civil Engineering IIT (BHU) during Feb 14-16, 2019.

#### **Awards and Distinctions**

1. Young Geospatial Scientist award 2019 in Geosmart India 2019 at HICC Hyderabad on 3 December 2019 by Surveyor General of India
2. Rachapudi Kamakshi Memorial Gold Medal in Geosmart India 2019 at HICC Hyderabad on 3 December 2019 by Surveyor General of India
3. Travel support from IIT BHU, 2018 to attend International Conference on ISPRS, Spatial Exchange Program in Thailand.
4. Travel support from IIT BHU, 2018 to attend International Conference on Ajman 5<sup>th</sup> International Environment Conference 2018 in Dubai.
5. Doctoral Fellowship 2014 to carry out PhD thesis at IIT BHU from University Grants Commission (UGC) of India for five years.

#### **Association With Professional Bodies**

1. Lifetime member of Civil Engineering Society Organization (India)

#### Other Activities/ Paper Presented in Conferences

1. Paper presented on **International Conference in Ajman** 5<sup>th</sup> International Environmental Conference on "*Impact of green spaces on the urban microclimate through Landsat 8 and TIRS data, in Varanasi*" organized by Ajman Municipal and Planning Department, Ajman University, UAE.
2. Paper presented on **International Conference** on Urban Geo-Informatics on "*Urban green space assessment using Remote Sensing and GIS: A case study of Varanasi city*" organized by Teri University Delhi.
3. Paper presented in **International Conference** in Remote Sensing and GIS for Applications in Geosciences conference on "*Assessment of groundwater quality using WQI and GIS near the Karsara Municipal landfill site, Varanasi.*" organized by Department of Geology, Aligarh Muslim University, Aligarh, India.
4. Paper presented on **International Conference** in Liable Cities: Transforming Sustainability and its challenges on "*Remote Sensing based assessment of urban heat island from TIRS data- A case study of Varanasi city, India*" organized by Department of Geography, Sheed Bhagat Singh College University of Delhi.
5. Paper presented in **International Conference** on Liable Cities: Transforming Sustainability and its challenges on "*Spatial Analysis of Ground water quality around MSW landfill site*" organized by Department of Geography, Sheed Bhagat Singh College University of Delhi.
6. Paper presented on **National seminar** on perspective on land, water and population: issue and challenges on "*Impact of land use land cover change on LST in Varanasi*" organized by Department Of Geography, BHU, Varanasi.
7. Paper presented in **International Conference** on "River Health: Assessment to Restoration (RHAR-2019)" from February 14-16, 2019 in the department of Civil Engineering IIT (BHU) on "Monitoring of thermal pattern in rivers using landsat-8 satellite data".
8. Paper presented in **International Conference** on "River Health: Assessment to Restoration (RHAR-2019)" from February 14-16, 2019 in the department of civil engineering IIT (BHU) on "Geospatial Analysis of land use changes in the Ramganga river Basin using Google Earth Engine".
9. Poster presentation in **International conference** on "Flood Inundation Mapping and Monitoring of Ramganga River Using Dual-Polarized SAR Data". From 3-5 December 2019 at GeoSmart India HICC, HYDERABAD INDIA.

#### Participated in Workshops & Courses

1. Thailand one week training program on the spatial exchange program at Sirindhom Center for Geo-informatics (SCGI) Space Krenovation Park of **GISTDA , Chonburi, Thailand.**
2. One week National workshop on Techniques in Hyperspectral data analysis and processing jointly organized by IESD (BHU) & **Department of Physics IIT (BHU) 2017.**
3. One week International workshop on "Geo-statistical Analysis of Environmental Data" organized by **National Institute of Technology Surathkal, Karnataka.**

4. One week on “GIS and Spatial modelling” jointly organized by the **University of Salzburg, Austria** and **University of Madras, Chennai**.
5. One week training on Western Ghats biodiversity using free and open source Geospatial Tool (FOSS4G) organized by Karnataka State Council for Science and Technology, and **Indian Institute of Science Campus, Bangalore**.
6. One week program of GIAN on sustainable urban planning using remote sensing and GIS organized by **IIT Kanpur**.
7. One week training program on Tools for scientific documentation: LATEX, JabRef, DocEar and other open source software organized by DST- center for interdisciplinary mathematical science (DST-CIMS) **BHU, Varanasi**.
8. One week short course on principles and applications of GIS organized by Department of Civil Engineering **IIT (BHU), Varanasi** during January 7-12, 2019.
9. One week special course on “Machine learning and it’s application” organized by Indian Institute of Remote Sensing (IIRS), Dehradun during June 3-7, 2019
10. Two-week training program on SAR data Processing for land deformation Studies organized by **Indian Institute of Remote Sensing (IIRS)**, Dehradun during Nov 14-25, 2022