

## CURRICULUM VITAE

### Dr. WANI SUHAIL AHMAD

Assistant Professor, Department of Geography (Contractual)

University of Ladakh, (India)

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Google Scholar: <https://scholar.google.com/citations?user=Pu9IDT0AAAAJ&hl=en>

Research gate: <https://www.researchgate.net/profile/Wani-Suhail-Ahmad>

Contact: (+91) 6006991883

Date of Birth: 20<sup>th</sup> January 1992

Institution: University of Ladakh

Category Gen/SC/ST/OBC: Gen

Whether differently abled (yes/No): No



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### SKILLS

- Google Earth
- Digital Image Processing & Interpretations
- Remote Sensing,
- Project Planning
- Data Analysis
- Erdas Imagine, Spatial Analysis
- QGIS, Arc GIS
- Urban Planning
- Disaster Risk Management
- Flood Monitoring,
- Crop Monitoring, Forest Changes & Fire Burnt area

### Biography and Research Interest area

Dr. Wani Suhail Ahmad is a distinguished figure in Geospatial Sciences and Environmental Geography, hailing from Anantnag, UT Jammu & Kashmir, India. With a Ph.D. from Aligarh Muslim University, his expertise spans Google Earth Engine, Digital Image Processing, Remote Sensing, and Spatial Analysis. Since joining the University of Ladakh in 2023, Dr. Ahmad has excelled as both a researcher and educator, guiding students in exploring Ladakh's landscapes. His prolific research output in esteemed journals and his role as a reviewer reflect his significant contributions to academia. Honored with awards like the Young Researcher Award and the University Gold Medal, Dr. Ahmad's commitment to advancing geographical knowledge and addressing global challenges is evident. Additionally, his edited book on Climate Change Vulnerability and Adaptations, published by Springer, further cements his position as a leading authority in the field, showcasing his dedication to knowledge advancement and environmental sustainability.

### Educational Qualification

Name of Examination	Board/ University/ Institution	Year of Passing	Percentage	Division
Ph.D.	Aligarh Muslim University, Aligarh	2021	<b>Awarded on 28<sup>th</sup> December 2021</b>	
M.A./M. Sc Geography	Aligarh Muslim University, Aligarh	2016	71.04%	First
B.A. (Hons.) Geography	Aligarh Muslim University, Aligarh	2014	71.86% <b>Gold Medalist</b>	First
Intermediate (12th)	JK BOSE	2010	81.6%	<b>Distinction</b>

### Ph. D Dissertation

*Environmental Crisis of Wetland Ecosystem in Kashmir Valley - Jammu & Kashmir*

**Teaching Experience:** Assistant Professor Department of Geography, University of Ladakh from 30-03-2023 till date.

### M. A. / M. Sc. Dissertation Supervised:

- i. *Assessing the Status of Two Benchmark Glaciers in Ladakh Region of Western Himalaya* submitted by Razia Banoo (M.A./M.Sc. Geography)
- ii. *Assessing Land Transformation and Build-up Expansion in Trans Himalayas: Insights from Leh Ladakh – India* submitted by Tashi Gyatso (M.A./M.Sc. Geography)
- iii. *GIS based Landslide Susceptibility Mapping and Assessment using Heuristic & Statistical Techniques along Kangan to Kargil Highway (NH1)* submitted by Mohammad Ali (M.A./M.Sc. Geography)
- iv. *Assessing Agricultural Land Transformation and Urban Expansion using Remote Sensing & Econometric Models in Kargil Town & its Outskirts* submitted by Khalida Banoo (M.A./M.Sc. Geography)
- v. *Impact Assessment of LULC Dynamics & Population Growth on Food Security of South Kashmir* submitted by Aga Syed Hadi (M.A./M.Sc. Geography)
- vi. *Dynamics of Population Growth and its Impact on Land Change Systems in Kargil Town* submitted by Zeenath Khatoon (M.A./M.Sc. Geography)

## Books

1. **Climate Change Vulnerability and Adaptations, Springer**  
<https://doi.org/10.1007/978-3-031-49642-4>

## Publications

1. **Ahmad, W. S.**, Jamal, S., Sharma, A., & Malik, I. H. (2024). Spatiotemporal analysis of urban expansion in Srinagar city, Kashmir. *Discover Cities*, 1(1), 8. <https://link.springer.com/article/10.1007/s44327-024-00009-3>
2. **Ahmad, W. S.**, Kaloop, M. R., Jamal, S., Taqi, M., Hu, J. W., & Abd El-Hamid, H. (2024). An analysis of LULC changes for understanding the impact of anthropogenic activities on food security: a case study of Dudhganga watershed, India. *Environmental Monitoring and Assessment*, 196(1), 105. <https://doi.org/10.1007/s10661-023-12264-9>
3. Ahmad, M., **Ahmad, W. S.**, Ahmad, S. N., Jamal, S., & Saqib, M. (2024). Tracing the roots of wetland degradation in India: a systematic review of anthropogenic drivers, ecological consequences and conservation strategies. *GeoJournal*, 89(1), 1-20. <https://doi.org/10.1007/s10708-024-10997-9>
4. Jamal, S., Saqib, M., **Ahmad, W. S.**, Ahmad, M., Ali, M. A., & Ali, M. B. (2023). Unraveling the complexities of land transformation and its impact on urban sustainability through land surface temperature analysis. *Applied Geomatics*, 1-23. <https://doi.org/10.1007/s12518-023-00521-y>
5. Jamal, S., Ali, M. A., & **Ahmad, W. S.** (2023). *Modelling transformation and its impact on water quality of the wetlands of lower Gangetic plain: a geospatial approach for sustainable resource management. Geology, Ecology, and Landscapes*, 1-34 **Taylor & Francis**. <https://doi.org/10.1080/24749508.2023.2202445>
6. **Ahmad, W. S.**, Jamal, S., Taqi, M., Abd El-Hamid, H. T., Narboo, J (2022). *Estimation of Soil Erosion and Sediment Yield Concentrations in Dudhganga Watershed of Kashmir Valley using RUSLE & SDR Model. Environment, Development and Sustainability, Springer*. <https://doi.org/10.1007/s10668-022-02705-9>
7. Behere, D.K., Jamal, S., **Ahmad, W.S.**, Taqi, M., Kumar, R. (2022). Estimation of Soil Erosion Using RUSLE Model and GIS Tools: A Study of Chilika Lake, Odisha. *Journal of Geological Society of India, Springer* <https://doi.org/10.1007/s12594-023-2324-y>
8. Jamal, S., **Ahmad, W. S.**, Ajmal, U., Ali, M. A., & Ali, M. B. & Ahmed S (2022): An integrated approach for determining the anthropogenic stress responsible for degradation of a Ramsar Site -Wular Lake in Kashmir, India” *Marine Geodesy Taylor & Francis*. <https://doi.org/10.1080/01490419.2022.2034686>
9. Ajmal, U., Jamal, S., **Ahmad, W. S.**, Ali, M. A., & Ali, M. B. (2021). Waterborne diseases vulnerability analysis using fuzzy analytic hierarchy process: a case study of Azamgarh city, India. *Modeling Earth Systems and Environment*, 12687-2713. **Springer**
10. Singh, A. L., Jamal, S., & **Ahmad, W. S.** (2021). Impact assessment of Lockdown amid covid-19 pandemic on tourism industry of Kashmir Valley, India. *Research in Globalization*, 100053. **Elsevier**
11. Jamal, S., & **Ahmad, W. S.** (2020). Assessing land use land cover dynamics of wetland ecosystems using Landsat satellite data. *SN Applied Sciences*, 2(11), 1-24. **Springer**

12. Ganaie, T. A., Jamal, S., & **Ahmad, W. S.** (2020). Changing land use/land cover patterns and growing human population in Wular catchment of Kashmir Valley, India. *GeoJournal*, 1572-9893. **Springer**
13. Shafiq, M. U., Islam, Z. U., Abida, **Ahmad, W.S.**, Bhat, M. S., & Ahmed, P. (2019). Recent trends in precipitation regime of Kashmir valley, India. *Disaster Advances*, 12(4), 1-11.
14. Jamal, S., **Ahmad, W. S.**, Ajmal U., Shakoor M. S. A., & Shah B, (2021). Assessing anthropogenic influence on deterioration and shrinkage of water bodies in response to land transformation in Aligarh district, Uttar Pradesh. **Creative Space** 9(1), 29-37
15. Khan, T.A., **Ahmad, W. S.**, & Tariq S. (2020). A multi-temporal land use and land cover change analysis of Delhi-NCT, using Remote Sensing and GIS. *Bhugol Swadesh Charcha* (Multidisciplinary International Journal) 16 (1), 1-11
16. Jamal S., **Ahmad, W. S.**, Ali M. A, A, Sharma Monitoring Land Use/Land Cover Change Detection and Urban Expansion with Remote Sensing and GIS techniques in Anantnag District of Kashmir Valley. *The Geographer* 66 (1), 1-11
17. Taufique M, Khursheed V, and **Ahmad W. S.** (2017) Saffron Production in Jammu and Kashmir: Problems and prospects, *International Journal of scientific Research and Development* Vol. 5, Issue 04, ISSN (online): 2321-0613.
18. **Ahmad, W. S.**, Jamal S., (2019 & 2020). Disappearing water bodies: A case study of Aligarh district. *Global researcher view* 4(2) & 5(3) 28-36
19. Taqi M, Bidhuri S, Sarkar S, **Ahmad, W. A.**, and Wangchok P (2017) Rural Healthcare Infrastructural Disparities in India: A Critical Analysis of Availability and Accessibility, *Journal of Multidisciplinary Research in Healthcare* Vol-3, No-2 pp. 125–149.
20. Jamal S., and **Ahmad W.S.**, (2019) ‘The Fate of Kashmir Tourism during and aftermath of Political Instability: A Spatio-Temporal Analysis’. *Ajanta*, Volume VIII, Number 1. Pp. 59-78. *UGC Listed Journal Number* 40776

## Book Chapters

1. Dar, S. A., Nabi, M., Dar, S. A., & **Ahmad, W. S.** (2022). Influence of Anthropogenic Activities on the Diversity of Forest Ecosystems. In *Towards Sustainable Natural Resources* (pp. 33-49). **Springer**, Cham. [https://doi.org/10.1007/978-3-031-06443-2\\_3](https://doi.org/10.1007/978-3-031-06443-2_3)
2. Khursheed, V., Jamal, S., & **Ahmad, W. S.** (2022). Impact Assessment of Land Use Land Cover Dynamics and Population Growth on Food Security of Kashmir Valley, India. In *Towards Sustainable Natural Resources* (pp. 123-149). **Springer**, Cham. [https://doi.org/10.1007/978-3-031-06443-2\\_8](https://doi.org/10.1007/978-3-031-06443-2_8)
3. Rafi, S., Balasani, R., Qadir, F., Tahir, M., Ahmed, F., & **Ahmad, W. S.** (2022). Role of Artificial Intelligence in Agriculture Sustainability, an Example from India. In *Towards Sustainable Natural Resources* (pp. 275-293). **Springer**, Cham. [https://doi.org/10.1007/978-3-031-06443-2\\_15](https://doi.org/10.1007/978-3-031-06443-2_15)
4. Jamal S., Malik I. H. & **Ahmad W.S.**, (2022). Dynamics of Urban Land Use and Its Impact on Land Surface Temperature (LST) in Aligarh City, Uttar Pradesh. Re-envisioning Advances in Remote Sensing, Urbanization, Disasters and Planning. Ed by Ripudaman Singh ISBN: 9781032124575 **CRC Press Routledge**. <https://doi.org/10.1201/9781003224624>
5. Sahana M, Rihan M, Deb S, Patel PP, **Ahmad, W. S.**, Imdad K (2020). Detecting the Facets of Anthropogenic Interventions on the Palaeochannels of Saraswati and Jamuna.

Anthropogeomorphology of Bhagirathi-Hooghly River System in India, 469-489 **CRC Press Routledge** <https://doi.org/10.1201/9781003032373>

6. Jamal S. and **Ahmad W.S.**, (2019) 'Aligarh Zile me Jal nikayon ki viluptata; EkVishesh Adhyayan'. "Jal Jeevan and Samaj" (2019) Ed. Jibraeal Ane. Books Pvt. Ltd 9789388264525
7. Jamal S., Ali M. A., & **Ahmad W. S.**, (2021). Assessing sanitation condition for the urban poor in the slums of English Bazar Municipality, Malda District, West Bengal. Sanitation for the Urban Poor in Indian Cities. 263-283 B. R. Publishing Corporation, Delhi. Edited by Singh A. L., & Jamal S.
8. Singh, A. L., Jamal, S., Ajmal, U., **Ahmad, W. S.**, & Ali M. B., (2021). Realising right to water for urban poor: Finding our way forward. Water supply for the urban poor in Indian cities. 339-362. B. R. Publishing Corporation, Delhi. Edited by Singh A. L., & Jamal S.
9. Jamal S., **Ahmad W. S.**, Baba S. A., Asger M. S., Reshi U A., & Ali M. A., (2021). Impact assessment of anthropogenic stress on Green Spaces of Srinagar City, Jammu & Kashmir. Urban Environment and Spatial Science. Ane Books Pvt. Limited New Delhi/Prakashan Kuteer, edited by Ali M. A., Sethy K. M., Wani M., & Kamraju M.

## Conferences

- i. Presented paper on "*Assessing Land Use Land Cover change and its environmental impacts in Aligarh city, India*" in National Conference on "Agriculture, Environment and Sustainable Development in India: Post-Independence Scenario" organized by Department of Geography, Faculty of Science Aligarh Muslim University, Aligarh during 5-6 November, 2022.
- ii. Presented a paper on "*Assessing neighborhood vulnerability; A study of relationship between neighbourhood Socio-economic status and neighbourhood environment*" during 33<sup>rd</sup> IGI International Geography Online Conference on the theme Geomorphology and Environmental Sustainability Organized by Department of Geography, University of Allahabad, Prayagraj from 02-04-December 2021.
- iii. Presented a paper on "*Analysing land use land cover change and future urban growth with respect to location of slaughterhouses in Aligarh city outskirts*" in three days XVI DGSi International Geography Online Conference on Environment, Population & Sustainable Development held on 11<sup>th</sup> Sept. 2021.
- iv. Presented a paper on "*Water quality evaluation of Kashmir Wetlands using Water Quality Index (WQI) in GIS environment*" in the international conference on "Challenges of Disasters: Vulnerability, Adaptation and Resilience" Organized by the Centre for Disaster Management, Department of Geography, Jamia Millia Islamia, New Delhi during 2<sup>nd</sup> March 2021.
- v. Presented a paper on "*Remote sensing application for exploring land use and land cover dynamics in and around Chatra Wetland English Bazar, West Bengal*" in the National conference on "Climate change and Pathways to Self-Reliant India: Opportunity and Challenges for Sustainable Development" Organized by Department of Geography, Jamia Millia Islamia, New Delhi during 15-16 March, 2021.
- vi. Presented a paper on "*Limnological characterization of Wular Lake vis-à-vis Anthropogenic influences: A Geospatial Approach*" during the Young Geographer Award competition 2021 organized by Institute of Indian Geographers (IIG) in association with Department of Geography, Savitribai Phule Pune University from 25-26 February, 2021.

- vii. Presented a paper on "*Impact of Covid-19 on Economy, Environment and Human Behaviour*" in First International Geographical Union (IGU) India International E-Conference on Implications of Covid-19 on Local & Regional Sustainable Development: A Global Perspective, Organized under the aegis of IGU and in Collaboration with IGU-Commission on Local and Regional Development; Commission on Geo-Heritage, held on 27-28, June 2020
- viii. Presented a paper on "*Using Landsat satellite data to assess land use/land cover dynamics of wetland ecosystem in Kashmir Valley, India*" National Conference on the theme Impact of Climate Change on Food, Water and Health: Issues and Challenges Organized by Department of Geography, Aligarh Muslim University, Aligarh from 01-02 February, 2020.
- ix. Presented a paper on "Monitoring Land Use/Land Cover change detection and Urban expansion with Remote Sensing and GIS techniques in Anantnag District of *Kashmir Valley, India*" in 41<sup>st</sup> Indian Geography Congress 2019 & National Conference on 21<sup>st</sup> Century Challenges of Agriculture, Health and Development in India with special focus on Tribal Areas organized by Department of General and Applied Geography, Doctor Harisingh Gour Vishwavidyalaya, Sagar, M.P from 28-30 December, 2019.
- x. Presented a paper on "The fate of Kashmir Tourism During and Aftermath of Political Instability: A Spatio-temporal analysis" in One day Multidisciplinary International Conference on the theme Indian Society: Social, Cultural, Commercial, Historical, Political, Philosophical & Technological Assessment Organized by Samadiya Colledge of Arts & Commerce, Thane, Maharashtra, on 28-February, 2019.
- xi. Presented a paper on "*Spatiotemporal analysis of Urban expansion and its impacts on surface temperature and water bodies : A case study of Srinagar city of Kashmir Valley, India*" in International Conference on Global water crisis, Agriculture and Food security in the Era of Climate Change Organized by Department of Geography, Aligarh Muslim University, Aligarh from 1<sup>st</sup> to 3<sup>rd</sup> December 2018.
- xii. Presented paper on "*Disappearing wetlands of Kashmir Valley: A case study of Wular Lake*" in National Seminar of "Indian Institute of Geomorphologists (IGI)" organized by Department of Geography, Jamia Millia Islamia, New Delhi from 03-05 October, 2018.
- xiii. Presented paper on "*Land Use Land Cover Dynamics in and around Anchar and Hokersar Wetland of Kashmir Valley: A Geographical Analysis*" in National Seminar on "Urban Environment in the 21<sup>st</sup> Century: Issues and Challenges", Dept. of Geography, Jamia Millia Islamia, New Delhi, 27-28 March 2018
- xiv. Presented paper on "*Assessing LU/LC Transformation in Kulgam District of Kashmir Valley: A Spatio-temporal Analysis*" in National Conference on "Climate Change: Sustainable Agriculture and Environment" Department of Geography, Faculty of Science Aligarh Muslim University, Aligarh, 17-18 March 2018
- xv. Presented paper "*Assessing Change Detection and Quantification of LU/LC in Western Himalayas: A Case Study of Anantnag District*" in Nation conference on Role of Geo-spatial technologies for Good governance and Sustainable development held in Interdisciplinary department of Remote Sensing and GIS Applications, Amu, Aligarh 17-19 Feb. 2018.
- xvi. Presented Paper on "*Annual and seasonal Precipitation Times Series trend and pattern analysis in Kashmir Valley, India. A Geographical Analysis*" in International Seminar on Environmental Degradation –Causes and Consequences, Organized by Parvavaran Mitra Samiti in association with Nagar Nigam and K.G.K College (PG), 25 February, 2018.

- xvii. Presented a paper on “*Impact of Human induced factors on Socioeconomic conditions in South Kashmir Valley: A Case Study of Tourism*” in National conference on “Geoinformatics for Natural Resource Management” Organized Department of Geography, Jamia Millia Islamia, New Delhi during 07-08 February, 2017.

### **Workshops**

- Attended one week DST workshop on “Application of Remote Sensing and GPS in Natural Resource Management sponsored by Department of Science and Technology Govt. of India, New Delhi organized by Interdisciplinary Department of Remote Sensing & GIS Applications, Aligarh Muslim University, Aligarh from 09-15 October, 2017.
- Attended Workshop for seven days on role of Geospatial technologies in Natural resource management from 11 -16 Sept 2017.
- Attended Workshop on Global cities sustainability and management of the urban ecosystem (GIAN) conducted at the Department of Geography, JMI, New Delhi from 01-Nov-2016 to 05-Nov-2016.
- Attended Workshop on National Information system for Climate and Environment Studies (NICES) and its Activities” conducted at the Department of Geography, JMI, New Delhi on 29<sup>th</sup> April, 2019
- Attended Workshop on National Information system for Climate and Environment Studies (NICES) and its Activities” conducted at the Department of Geography, AMU Aligarh on 29<sup>th</sup> January, 2019
- Attended Workshop on Climate Change and Future trends in Disaster Management jointly organized by NIDM and University of Kashmir held from 27-29 January 2021

### **Courses and Training**

- *Attended NGP-DST Winter School on Geospatial Technologies (Level-I) conducted from 15 Nov.2021 to 9 Dec 2021, by Multidisciplinary Centre for Geoinformatics, Delhi Technological University, New Delhi*
- *Attended 21 weeks training program on “Geospatial technologies”, conducted by National Remote Sensing Centre (NRSC), Hyderabad (04-Nov. 2019-24 Jan. 2020).*
- Attended 20-hour professional development online course on “Introduction to Environmental education” from November 6 – December 10, 2018 from **Cornell University, U.S.A.**
- Certificate course on ***Applications of Remote Sensing and GIS on Natural Resource Management*** at Aligarh Muslim University, sponsored by DST from 05 Jan to 21 Jan 2017.
- Certificate course on “**Basics of Remote Sensing, GIS & Global Navigation Satellite System**” conducted by IIRS, Dehradun in 23<sup>rd</sup> outreach programme from 21 August 2017 to 01 December, 2017.
- Certificate of Participation on completion of online course on “**Health GIS: Geoinformatics for COVID 19**” conducted by **IIRS, Dehradun** from 15-06-2020 to 19-06-2020.

### **Lectures Delivered**

- Delivered a lecture on the topic “Writing Research Reports” in two days workshop on Basic Research Methodology Organized by the Tribal Research Institute (TRI), Kargil Campus, University of Ladakh on 5<sup>th</sup> & 15<sup>th</sup> November, 2022.

### **Reviewing Activities**

- Journal of Coastal Conservation, Springer
- Geojournal, Springer



- Environmental Monitoring and Assessment, Springer
- Arabian Journal of Geosciences, Springer
- Ecological Informatics, Elsevier
- GIScience & Remote Sensing, Taylor & Francis
- Geocarto International, Taylor & Francis
- Environment, Development and Sustainability, Springer
- Earth Systems and Environment (ESEV), Springer
- Sustainable Environment, Taylor & Francis

### Scholarships/Awards

- Awarded **First Prize** in **Oral Presentation competition** in 16<sup>th</sup> World Wetland Day National Conference 2022, organized by Paryavaran Dakshata Mandal in collaboration with Mangrove Marine Biodiversity Conservation Foundation of Maharashtra, Association of Teachers in Biological Sciences, H.V.P.'s Ramniranjan Jhunjhunwala College of Arts, Science and Commerce Mumbai & Enviro-Vigil Thane.
- Awarded **"Special Recognition Award"** in the World Wetland Day National Conference by Paryavaran Dakshata Mandal, 2021.
- Awarded **Young Researcher Award 2021** by Institute of Scholars (ISO 9001-2015)
- Lifetime member of **Institute of Scholars, INSC** (Professional Membership).
- Qualified UGC-Net June 2020, December 2020, July 2018, Jan 2017, July 2016, and December 2015.
- Qualified JKSET May 2016.
- Awarded **"Indian Council of Social Science (ICSSR) Doctoral fellowship"**, 01 January 2019 to 31 December 2020.
- **Gold Medalist** in B.A. (Hons) (Topper faculty of social science, 2014).
- Qualified for Azem Premji Foundation exams as **Associate**, 2016.
- Played Bio Regional Cricket tournament through Kendriya Vidyalaya Anantnag in Chandigarh.

### References

1. **Dr. Saleha Jamal (Associate Professor)**  
PhD. Professor/Supervisor, Department of Geography Aligarh Muslim University, Aligarh India. Contact info: [salehajm@gmail.com](mailto:salehajm@gmail.com)
2. **Prof. Dr. Haroon Sajjad**  
Professor & Head of Department, Department of Geography Jamia Millia Islamia, New Delhi India. Contact info: [hsajjad@jmi.ac.in](mailto:hsajjad@jmi.ac.in) [haroon.geog@gmail.com](mailto:haroon.geog@gmail.com)
3. **Prof. Dr. A. R. Siddiqui**  
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*W. Suhail*

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