Prof. Haroon Sajjad

NIRF Ranked 3rd
NAAC Accredited A++

Professor
Department of Geography, Faculty of Sciences, Jamia Millia Islamia, New Delhi - 110 025

Teaching Experience: 26 Years

- Former Head
  Deptt. of Geography, JMI
- Former Provost
  Hall of Boys' Residence, Campus B (Now Dr. Zakir Husain Hall of Boys' Residence), JMI
- Former Chief Proctor, Jamia Millia Islamia
- Former Member of Court (Anjuman), Jamia Millia Islamia

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University Webpage:
https://jmi.ac.in/ACADEMICS/Departments/Department-Of-Geography/Faculty-Members/1931/Haroon_Sajjad

Dr. Haroon Sajjad is Professor in the Department of Geography, Faculty of Sciences, Jamia Millia Islamia, New Delhi, India. Prior to joining in Jamia Millia Islamia, he served Meerut College Meerut for seven years as lecturer and Senior Lecturer. Subsequently, he became Senior lecture, Reader, Associate Professor and Professor in Jamia Millia Islamia. He obtained his B.Sc., M.Sc., M.Phil. and Ph.D. degrees all from Aligarh Muslim University, Aligarh, India. His present research interests include climate change/climate variability assessment, susceptibility, vulnerability, adaptation and mitigation assessment to disasters, environmental management, sustainable development, watershed management and applications of remote sensing and GIS. He has nine books to his credit. He has published 176 research papers in Journals of repute. Prof. Sajjad has presented more than sixty research papers at national and international conferences including at Sapienza University of Rome, Italy, University of British Columbia, Canada, University of Western Cape, Bellville, South Africa, University of Brighton, U.K and Kathmandu University, Nepal. He has delivered seventy-five invited talks at various universities. Seventeen doctoral degrees to the scholars have been awarded under his supervision. He has chaired academic sessions at various conferences. He is the reviewer of many scientific research journals and member of scientific bodies and Expert Panels. He has completed many research projects of many funding agencies as co-principal investigator. He has organized various academic events such as national and international conferences, workshops, and training programmes. Prof. Sajjad has helped the university administration as Head of the Department of Geography, Faculty of Sciences Provost, Hall of Boys' Residence, Campus B (Now Dr. Zakir Husain Hall of Boys' Residence), Jamia Millia Islamia from 2015 to 2017 and the Chief Proctor of Jamia Millia Islamia from 2017 to 2019. He has also been Member of Court (Anjuman), Jamia Millia Islamia.

Academic Qualifications

◉ Ph.D. in Geography (1997)	: Aligarh Muslim University, Aligarh
◉ M.Phil. in Geography (1993)	: Aligarh Muslim University, Aligarh
◉ M.Sc. (1992) (Geography)	: Aligarh Muslim University, Aligarh
◉ B.Sc. (1990) (Geography, Geology, Chemistry)	: Aligarh Muslim University, Aligarh
◉ Intermediate (1987) (Physics, Chemistry, Mathematics)	: Board of High School & Intermediate Education, Uttar Pradesh
◉ High School (1985) (Science, Biology, Social Science)	: Board of High School & Intermediate Education, Uttar Pradesh

Research Citation and H Index

Google Scholar Citations:

https://scholar.google.com/citations?user=EPz3WXgAAAAJ&hl=en

Scopus Citations:

https://www.scopus.com/authid/detail.uri?authorId=44462024700

ResearchGate Citations:

https://www.researchgate.net/profile/Haroon-Sajjad

ORCiD:

https://orcid.org/0000-0002-2007-1266?lang=en

Teaching Papers

Fluvial Geomorphology
Photogrammetry and Image Interpretation
Watershed Management
Remote Sensing and GIS Applications in Water and Forest Resources
Climatology and Oceanography
Hydrology

Research Interests

Climate change/climate variability assessment
Susceptibility, vulnerability, adaptation and mitigation to disasters
Environmental management,
Sustainable development,
Watershed management
Applications of Remote Sensing and GIS.

Research Guidance and Research Papers

Ph.D Awarded under Supervision	**:**	**17**
Post-Doctoral Supervision	**:**	**01**
Books	**:**	**09**
Research Papers Published	**:**	**176**

Ph.D. Awarded under Supervision

1. **Dr. Yatendra Sharma (2025)**
 | Topic: Assessing Climate Variability and Its Impact on Water Availability, Vegetation and Soil Organic Carbon in Nainital District, Uttarakhand

2. **Dr. Nirsobha Bhuiyan (2024)**
I Topic of the Ph.D. Thesis: *Landscape Ecological and Socio-economic Vulnerability to River Bank Erosion in the Flood Plains of Lower Brahamaputra River*

3. **Dr. Md. Hibjur Rahaman (2024)**
| Topic of the Ph.D. Thesis: *Climate Variability and Water Resource Management in Lower Thoubal Watershed, Manipur (India)*

4. **Dr. Roshani (2024)**
| Topic of the Ph.D. Thesis: *Climate Variability Impact and Forest Vulnerability Assessment in Valmiki Tiger Reserve, West Champaran (Bihar)*

5. **Dr. Geeta Kumari (2023)**
 | Topic of the Ph.D. Thesis: *Livelihood Vulnerability Assessment to Climate Variability: A Case Study of Dimapur District of Nagaland*

6. **Dr. Md. Masroor (2023)**
| Topic of the Ph.D. Thesis: *Climate Change Induced Drought in Godavari Middle Sub-basin: Impact, Vulnerability and Adaptation*

7. **Dr. Sufia Rehman (2021)**
 | Topic of the Ph.D. Thesis: *Climate Variability and Flood Hazard in Bhagirathi Sub-basin of West Bengal: A Geospatial Approach*

8. **Dr. Vinay Prasad Mandal (2019)**
I Topic of the Ph.D. Thesis**:** *Characterization of Farming Systems for Sustainable Agricultural Development: A Case Study of Katihar District, Bihar.*

9. **Dr. Pavan Kumar (2019)**
 | Topic of the Ph.D. Thesis: *Carbon Stock Estimation Using Geo-Spatial Approach in Sariska Tiger Reserve (Rajasthan)*

10. **Dr. Mubashir Jameel (2019)**
| Topic of the Ph.D. Thesis: *Land Suitability and Cropping Pattern Analysis for Optimal Land Use Planning in Bijnor District (U.P)*

11. **Dr. Mehebub Sahana (2018)**
 | Topic of the Ph.D. Thesis: *Ecological and Socio-Economic Vulnerability Assessment to Climate Change: A Study on Sundarban Biosphere Reserve, West Bengal*

12. **Dr. Purva Jain (2018)**
 | Topic of the Ph.D. Thesis: *Environmental Management and Restoration of Sariska Tiger Reserve (Rajasthan) Using Geospatial Approach*

13. **Dr. Raihan Ahmed (2018)**
| Topic of the Ph.D. Thesis: *Integrated Watershed Management for Sustainable Development of Natural Resources: A Case Study of Lower Barpani River, Assam*

14. **Dr. Iffat Nasreen (2014)**
| Topic of the Ph.D. Thesis: *Food Security and Sustainable Agriculture in Vaishali District (Bihar): A Geographical Analysis*

15. **Dr. Mohd. Iqbal (2013)**
| Topic of the Ph.D. Thesis: *Anthropogenic Impact on Land Use/Land Cover Dynamics: A Case Study of Dudhganga Catchment, Kashmir Valley (J & K)*

16. **Dr. Chetan Chauhan (2013)**
| Topic of the Ph.D. Thesis: *Indebtedness and Distress Among the Farmers of Sangrur District of Punjab: A Geographical Analysis*

17. **Dr. Harish Kumar (2007)**
| Topic of the Ph.D. Thesis: *Child Labour in Rural Areas of Meerut District: A Spatial Analysis*

Ph. D. Scholars submitted thesis / Working Under Supervision/provisionally registered

1. **Ms. Aastha Sharma (NET) Submitted**
| Topic: *Climate change Induced Landslide Susceptibility, Vulnerability and Risk Assessment: A Study of Shimla District, Himachal Pradesh*

2. **Mr. Rayees Ali**
| Topic: *Climate Change Induced Flood Susceptibility and Risk Assessment in Upper Jhelum Sub-catchment, Jammu and Kashmir*

3. **Mr. Daawar Bashir Ganaie (NET)**
I Topic: *Climate Chane Induced Storm Surge Flood Susceptibility, Risk and vulnerability: Concern for Adaptation and Mitigation*

4. **Mr. Rehan Ali**

5. **Mr. Md. Sahil**

6. **Ms. Hira Ahtsham**

Post-Doctoral Research Completed Under Supervision

1. **Dr. Tamal Kanti Saha**
I Topic: *Appraisal of Wetland Values and Ecological Threats using Geoinformatics and Machine Learning Techniques: A Case for Restoration and Management of Deepor Beel, Assam*
Science and Engineering Research Board, Department of Science and Technology, Government of India

Research Papers Published

1. Sharma, Y., **Sajjad, H**., Saha, T.K. *et al.* (2025). Soil loss estimation and susceptibility analysis using RUSLE and random forest algorithm: a case study of Nainital district, India. *Spat. Inf. Res.* **33**, 21 (2025). https://doi.org/10.1007/s41324-025-00620-5, **Springer**
   Impact Factor: 2.0, Emerging Sources Citation Index, Scopus

2. Sahana, M, Areendran, G, Sivadas, A, Masroor, M, Abhijita, C.S, Raj, K, Ranjan, K, Sharma, D, Sultan, M.S, Ghoshal, A, Parameswaran, S, **Sajjad, H,** Deb, S, Imdad, K (2025). A mixed-methods approach for identifying high conservation value areas in the high-altitude landscapes of the Indian Himalayan region. Geo: Geography and Environment, 12, e70002. https://doi.org/10.1002/geo2.70002
   Impact Factor: 1.7, Emerging Sources Citation Index (Clarivate Analytics), SCOPUS (Elsevier), Web of Science (Clarivate Analytics)

3. Saha, T.K., **Sajjad, H**., Rahaman, M.H., Ali, R., Bhuyan, N., Sharma, A. (2025). Livelihood Vulnerability Assessment of Fishing Communities: Evidence from Deepor Beel of Assam, India. In: Banu, N., Fazal, S. (eds) **Livelihoods and Well-Being in the Era of Climate Change**. Springer, Cham. https://doi.org/10.1007/978-3-031-81132-6_18, **Springer**

4. Kumari, G., & **Sajjad, H**. (2025). Assessing livelihood resilience among rural communities in Dimapur district, India: Policy implications. **Local Development & Society**, 1–18. https://doi.org/10.1080/26883597.2025.2474426
   Impact Factor: 1.6, Scopus

5. **Sajjad, H**., Kumar, P., Srivastava, P. K., Pathak, S. O., Ahmed, M., Kumar, V., … Pandey, P. C. (2024). Assessing soil organic carbon and its relation with biophysical and ecological parameters in tropical forest ecosystem India. ***Geocarto International***, *40*(1). https://doi.org/10.1080/10106049.2024.2441388, **Taylor & Francis**
   Impact Factor: 3.3, Science Citation Index Expanded, Web of Science, Scopus.

6. Ali, R., **Sajjad, H**., Saha, T.K. *et al.* (2024). Assessment of climate change in Upper Jhelum Sub-catchment, India, using nonparametric methods and random forest model. ***Acta Geophys***. (2024). https://doi.org/10.1007/s11600-024-01505-1, **Springer**
   Impact Factor: 2.0, Science Citation Index Expanded, Scopus

7. Aastha Sharma, **Haroon Sajjad**, Tamal Kanti Saha, Md Masroor, Yatendra Sharma, Geeta Kumari (2024). Analyzing trend and forecasting of temperature and rainfall in Shimla district of Himachal Pradesh, India using non-parametric and bagging REPTree machine learning approaches, ***Journal of Atmospheric and Solar-Terrestrial Physics***, Volume 265, ISSN 1364-6826, https://doi.org/10.1016/j.jastp.2024.106352.

(https://www.sciencedirect.com/science/article/pii/S1364682624001809), **Elsevier**
Impact Factor: 2.0, Science Citation Index Expanded, Scopus

8. Aastha Sharma, **Haroon Sajjad**, Nirsobha Bhuyan, Md Hibjur Rahaman, Rayees Ali, (2024). Climate change-induced landslide vulnerability: Empirical evidence from Shimla district, Himachal Pradesh, India, ***International Journal of Disaster Risk Reduction***, Volume 110, SSN 2212-4209, https://doi.org/10.1016/j.ijdrr.2024.104657. (https://www.sciencedirect.com/science/article/pii/S2212420924004199), **Elsevier**
Impact Factor: 4.2, Science Citation Index Expanded, Scopus

9. Bhuyan, N., **Sajjad, H**., Rahaman, M. H., & Ahmed, R. (2024). Riverbank erosion induced vulnerability in India: A review for future research framework. ***Natural Hazards***. https://doi.org/10.1007/s11069-024-06789-6, **Springer**
Impact Factor: 3.3, Science Citation Index Expanded, Scopus

10. Sharma, A., **Sajjad, H**., Rahaman, M. H., Saha, T. K., & Bhuyan, N. (2024). Effectiveness of hybrid ensemble machine learning models for landslide susceptibility analysis: Evidence from Shimla district of North-west Indian Himalayan region. ***Journal of Mountain Science***, 21, 2368–2393. https://doi.org/10.1007/s11629-024-8651-7, **Springer**
Impact Factor: 2.3, Science Citation Index Expanded, Scopus

11. Nirsobha Bhuyan, **Haroon Sajjad**, Yatendra Sharma, Aastha Sharma, Raihan Ahmed (2024). Assessing socio-economic vulnerability to riverbank erosion in the Middle Brahmaputra floodplains of Assam, India, ***Environmental Development***, Volume 51, 2024,101027, ISSN 2211-4645, https://doi.org/10.1016/j.envdev.2024.101027. (https://www.sciencedirect.com/science/article/pii/S2211464524000654), **Elsevier**
Impact Factor: 4.7, Science Citation Index Expanded, Scopus

12. Rahaman, M. H., **Sajjad, H.**, Hussain, S., Roshani, Masroor, M., & Sharma, A. (2024). Surface water quality prediction in the lower Thoubal river watershed, India: A hyper-tuned machine learning approach and DNN-based sensitivity analysis. ***Journal of Environmental Chemical Engineering, 134***, 112915. https://doi.org/10.1016/j.jece.2024.112915, **Elsevier**
Impact Factor: 7.4, Scopus

13. Roshani, **Sajjad, H**., Rahaman, M. H., Masroor, M., Sharma, Y., Sharma, A., & Saha, T. K. (2024). Vulnerability assessment of forest ecosystem based on exposure, sensitivity and adaptive capacity in the Valmiki Tiger Reserve, India: A geospatial analysis. ***Ecological Informatics***, 80, 102494. https://doi.org/10.1016/j.ecoinf.2024.102494, **Elsevier**
Impact Factor: 5.9, Science Citation Index Expanded, Scopus

14. Saha, T. K., Sajjad, H., Roshani, Rahaman, M. H., & Sharma, Y. (2024). Exploring the impact of land use/land cover changes on the dynamics of Deepor wetland (a Ramsar site) in Assam, India using geospatial techniques and machine learning models. ***Modeling Earth Systems and Environment.*** https://doi.org/10.1007/s40808-024-01999-0, **Springer**
Impact Factor: 2.7, Emerging Sources Citation Index, Scopus

15. Roshani, Rahaman, M. H., Sajjad, H., Masroor, M., & Saha, T. K. (2024). Assessment of habitat suitability and potential corridors for Bengal Tiger (Panthera tigris tigris) in Valmiki Tiger Reserve, India, using MaxEnt model and least-cost modeling approach. ***Environmental Modeling & Assessment.*** https://doi.org/10.1007/s10666-024-09966-w, **Springer**
Impact Factor: 2.7, Science Citation Index Expanded, Scopus

16. Sharma, Y., **Sajjad, H**., Saha, T.K. *et al.* (2024). Analyzing and forecasting climate variability in Nainital district, India using non-parametric methods and ensemble machine learning algorithms. ***Theor Appl Climatol*** **155**, 4749–4765 (2024). https://doi.org/10.1007/s00704-024-04920-y, **Springer**
Impact Factor: 2.8, Science Citation Index Expanded, Scopus

17. Md Masroor, **Haroon Sajjad** (2024). Understanding climate change dynamics in the Godavari middle sub-basin using parametric and non-parametric models, ***Geosystems and Geoenvironment***, Volume 3, Issue 2, 2024, 100269, ISSN 2772-8838, https://doi.org/10.1016/j.geogeo.2024.100269. **Elsevier**
Impact Factor: 4.7, Scopus

18. Rehman, S., **Sajjad, H**. (2024). Analyzing the Household-Level Adaptation to Flood Hazard in Bhagirathi Sub-basin of West Bengal, India: A Concern for Mitigation. In: Singh, A.L., Jamal, S., Ahmad, W.S. (eds) ***Climate Change, Vulnerabilities and Adaptation***. Springer, Cham. https://doi.org/10.1007/978-3-031-49642-4_15

19. Yatendra Sharma, Raihan Ahmed, Tamal Kanti Saha, Nirsobha Bhuyan, Geeta Kumari, Roshani, Swades Pal, **Haroon Sajjad** (2024). Assessment of groundwater potential and determination of influencing factors using remote sensing and machine learning algorithms: A study of Nainital district of Uttarakhand state, India***, Groundwater for Sustainable Development***, Volume 25, 2024, 101094, ISSN 2352-801X, https://doi.org/10.1016/j.gsd.2024.101094. (https://www.sciencedirect.com/science/article/pii/S2352801X24000171),
Elsevier
Impact Factor: 4.9, Emerging Sources Citation Index, Scopus

20. Ali, R., **Sajjad, H**., Masroor, M., Saha, T. K., Roshani, & Rahaman, M. H. (2023). Morphometric parameters-based prioritization of watersheds for soil erosion risk in Upper Jhelum Sub-catchment, India. ***Environmental Monitoring and Assessment***, 196, 82. https://doi.org/10.1007/s10661-023-12226-1,
Impact Factor: 2.9, Emerging Sources Citation Index, Scopus

21. Ali, R., **Sajjad, H**., Saha, T. K., Roshani, Masroor, M., & Rahaman, M. H. (2023). Effectiveness of machine learning ensemble models in assessing groundwater potential in Lidder watershed, India***. Acta Geophysica***. https://doi.org/10.1007/s11600-023-01237-8, **Springer**
Impact Factor: 2.0, Science Citation Index Expanded, Scopus

22. Bhuyan, N., **Sajjad, H.**, Saha, T. K., Roshani, Sharma, Y., Masroor, M., Rahaman, M. H., & Ahmed, R. **(2023)**. Assessing landscape ecological vulnerability to riverbank erosion in the Middle Brahmaputra floodplains of Assam, India using machine learning algorithms. ***CATENA***, Volume 234, 107581. https://doi.org/10.1016/j.catena.2023.107581, **Elsevier**
Impact Factor: 5.4, Emerging Sources Citation Index, Scopus

23. Sharma, A., **Sajjad, H.**, Roshani et al. **(2023)**. A systematic review for assessing the impact of climate change on landslides: research gaps and directions for future research. ***Spatial Information Research***. https://doi.org/10.1007/s41324-023-00551-z, **Springer**
Impact Factor: 2.0, Emerging Sources Citation Index, Scopus

24. Rehman, S., Rahaman, M. H., Masroor, M., Roshani, **Sajjad, H.**, Ahmed, R., & Sahana, M. **(2023)**. Analyzing vulnerability of communities to flood using composite vulnerability index: evidence from Bhagirathi Sub-basin, India. ***Natural Hazards***. https://doi.org/10.1007/s11069-023-06170-z, **Springer**
Impact Factor: 3.3, Science Citation Index Expanded, Scopus

25. Bhuyan, N., Sharma, Y., **Sajjad, H.** et al. **(2023)**. Estimating bank-line migration of the Brahmaputra River in the Middle Brahmaputra floodplains of Assam, India using Digital Shoreline Analysis System. ***Environmental Earth Sciences***, 82, 385. https://doi.org/10.1007/s12665-023-11061-4, **Springer**
Impact Factor: 2.8, Emerging Sources Citation Index, Scopus

26. Rahaman, M. H., Roshani, Masroor, M., **Sajjad, H. (2023)**. Integrating remote sensing derived indices and machine learning algorithms for precise extraction of small surface water bodies in the lower Thoubal river watershed, India. ***Journal of Cleaner Production***, Volume 422, 138563. https://doi.org/10.1016/j.jclepro.2023.138563, **Elsevier**
Impact Factor: 9.8, Emerging Sources Citation Index, Scopus

27. Rahaman, M. H., Saha, T. K., Masroor, M., Roshani, & **Sajjad, H. (2023)**. Trend analysis and forecasting of meteorological variables in the lower Thoubal river watershed, India using non-parametrical approach and machine learning models. ***Modeling Earth Systems and Environment***. https://doi.org/10.1007/s40808-023-01799-y, **Springer**
Impact Factor: 2.7, Emerging Sources Citation Index, Scopus

28. Imdad, K., Sahana, M., Ravetz, J., Areendran, G., Gautam, O., Dwivedi, S., Chaudhary, A., & **Sajjad, H. (2023)**. A sustainable solution to manage ecosystem health of wetlands in urban and peri-urban areas of Lucknow district, India using

geospatial techniques and community based pragmatic approach. ***Journal of Cleaner Production***, Volume 414, 137646. https://doi.org/10.1016/j.jclepro.2023.137646, **Elsevier**
Impact Factor: 9.8, Emerging Sources Citation Index, Scopus

29. Masroor, M., Rahaman, M. H., & **Sajjad, H. (2023)**. Assessing farmers' perception based composite drought vulnerability in Godavari Middle Sub-basin, India. ***International Journal of Disaster Risk Reduction***, Volume 92, 103747. https://doi.org/10.1016/j.ijdrr.2023.103747, **Elsevier**
Impact Factor: 4.2, Science Citation Index Expanded, Scopus

30. Islam, M., Sahana, M., Areendran, G., Jamir, C., Raj, K., & **Sajjad, H. (2023)**. Prediction of potential habitat suitability of snow leopard (Panthera uncia) and blue sheep (Pseudois nayaur) and niche overlap in the parts of western Himalayan region. ***Geo***. https://doi.org/10.1002/geo2.121, **Royal Geographical Society, Wiley-Blackwell**
Impact Factor: 1.7

31. Sahana, M., Patel, P. P., Rehman, S., Rahaman, M. H., Masroor, M., Imdad, K., & **Sajjad, H. (2023)**. Assessing the effectiveness of existing early warning systems and emergency preparedness towards reducing cyclone-induced losses in the Sundarban Biosphere Region, India. ***International Journal of Disaster Risk Reduction***, Volume 90, 103645. https://doi.org/10.1016/j.ijdrr.2023.103645, **Elsevier**
Impact Factor: 4.2, Science Citation Index Expanded, Scopus

32. Kulimushi, L. C., Bashagaluke, J. B., Prasad, P., Heri-Kazi, A. B., Kushwaha, N. L., Masroor, M., Choudhari, P., Elbeltagi, A., **Sajjad, H.**, & Mohammed, S. **(2023)**. Soil erosion susceptibility mapping using ensemble machine learning models: A case study of upper Congo River sub-basin. ***CATENA***, Volume 222, 106858. https://doi.org/10.1016/j.catena.2022.106858, **Elsevier**
Impact Factor: 5.4, Emerging Sources Citation Index, Scopus

33. Masroor, M., **Sajjad, H.**, Kumar, P., Saha, T. K., Rahaman, M. H., Choudhari, P., Kulimushi, L. C., Pal, S., & Saito, O. **(2023)**. Novel Ensemble Machine Learning Modeling Approach for Groundwater Potential Mapping in Parbhani District of Maharashtra, India. ***Water***, 15, 419. https://doi.org/10.3390/w15030419, **MDPI**
Impact Factor: 3.0, Web of Science, Science Citation Index Expanded, Scopus

34. Nujaira, H., Prasad, K. A., Kumar, P., Yunus, A. P., Kharrazi, A., Gupta, L. N., Kurniawan, T. A., **Sajjad, H.**, & Avtar, R. **(2022)**. Quantifying spatio-temporal variation in aquaculture production areas in Satkhira, Bangladesh using geospatial and social survey. ***PLOS ONE***, 17(12), e0278042. https://doi.org/10.1371/journal.pone.0278042, PLOS
Web of Science, Scopus

35. Sahana, M., Areendran, G., & **Sajjad, H. (2022)**. Assessment of suitable habitat of mangrove species for prioritizing restoration in coastal ecosystem of Sundarban Biosphere Reserve, India. ***Scientific Reports***, 12(1), 1-20. https://doi.org/10.1038/s41598-022-09073-w, **Springer Nature**
Impact Factor: 3.8, Web of Science, Scopus

36. Roshani, **Sajjad, H.**, Saha, T. K. et al. **(2022)**. Analyzing trend and forecast of rainfall and temperature in Valmiki Tiger Reserve, India, using non-parametric test and random forest machine learning algorithm. ***Acta Geophysica***, 71, 531–552. https://doi.org/10.1007/s11600-022-00978-2, **Springer**
Impact Factor: 2.0, Science Citation Index Expanded, Scopus

37. Kumari, G., Sharma, Y. & **Sajjad, H. (2022)** Assessing livelihood vulnerability of rural communities in Dimapur district of Nagaland state, India: policy implications. ***GeoJournal*** (2022). https://doi.org/10.1007/s10708-022-10800-7, **Springer**
Impact Factor: 2.0, Emerging Sources Citation Index, Scopus

38. Roshani, **Sajjad, H.**, Rahaman, M.H. et al.(2022) Assessing Forest health using remote sensing-based indicators and fuzzy analytic hierarchy process in Valmiki Tiger Reserve, India. ***International Journal of Environmental Science and Technology*** (2022). https://doi.org/10.1007/s13762-022-04512-1, **Springer**
Impact Factor: 3.0, Scopus, Science Citation Index Expanded (SCIE)

39. Roshani, Rahaman, H., Masroor, Rehman, S., **Sajjad, H.** (2022). Indicator-Based Inherent Forest Vulnerability Using Multicriteria Decision-Making Analysis in the Darjeeling District of West Bengal. In: Rani, M., Chaudhary, B.S., Jamal, S., Kumar, P. (eds) ***Towards Sustainable Natural Resources***. **Springer**, Cham. https://doi.org/10.1007/978-3-031-06443-2_4

40. Sahana, M., Rehman, S., Ahmed, R., & **Sajjad, H.** (2022). Assessing the Impact of Disasters and Adaptation Strategies in Sundarban Biosphere Reserve, India: A Household Level Analysis. In: **Sajjad, H.**, Siddiqui, L., Rahman, A., Tahir, M., Siddiqui, M.A. (eds) ***Challenges of Disasters in Asia***. **Springer** Natural Hazards. Springer, Singapore. https://doi.org/10.1007/978-981-19-3567-1_15

41. Masroor, M., Razavi-Termeh, S.V., Rahaman, M.H. et al. (2022). Adaptive neuro fuzzy inference system (ANFIS) machine learning algorithm for assessing environmental and socio-economic vulnerability to drought: a study in Godavari middle sub-basin, India. ***Stochastic Environmental Research and Risk Assessment*** (2022). https://doi.org/10.1007/s00477-022-02292-1, **Springer**
Impact Factor: 3.9, Emerging Sources Citation Index, Scopus

42. Rahaman, M., Masroor, M., Rehman, S. et al. (2022). State of Art of Review on Climate Variability and Water Resources: Bridging Knowledge Gaps and the Way Forward. ***Water Resources***, 49, 699–710 (2022). https://doi.org/10.1134/S0097807822040169, **Springer**
Impact Factor: 0.9, Emerging Sources Citation Index, Scopus

43. Kumari, G., **Sajjad, H.**, Rahaman, M.H., Masroor, M., Ahmed, R., and Sahana, M. (2022). Climate variability induced livelihood vulnerability: A systematic review and future prospects. ***Area***, Volume 55, Issue1**,** March 2023, Pages 116-124, **https://doi.org/10.1111/area.12822, Royal Geographical Society, Wiley-Blackwell**
Impact Factor: 1.6, Social Science Citation Index, Scopus

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Conferences Attended and Presented Papers

1. **Sajjad, H (2024),** Assessment of Climate Change in Upper Jhelum Sub-catchment using non-parametric methods and random forest model, International Conference on Global Climate Change: Resilient Society and Sustainable Development, 28th to 30th September 2024, organized by the Department of Geography, Aligarh Muslim University, Aligarh.

2. **Sajjad, H (2022),** Integrated geospatial technology and modeling approach for assessing natural resources of the Earth System, Keynote Address, International Geographical Union, Nov. 24-25, 2022, Central University of Haryana.

3. **Sajjad, H (2021),** Application of Geospatial Technology in Assessing Climate Change Induced Hazards: Evidence from Sundarban Biosphere Reserve, India, 27th International Conference of International Academy of Physical Sciences (CONIAPS-XXVII) Organized by Institute of Earth and Environmental Sciences, Dr. Rammanohar Lohia Avadh University, Ayodhya in association with International Academy of Physical Sciences, Prayagraj (UP) October 26-28, 2021 (Online)

4. **Sajjad, H (2021),** Peace, Justice and Strong Institutions and Partnership for the Goals, International Conference on "Future Challenges and Sustainable Development Goals: Science to Policy Framework" during 16th – 18th April 2021. Shaheed Bhagat Singh College, University of Delhi.

5. **Sajjad, H (2021),** Climate Change and International Solidarity, International conference (online) on Exploring the Application of Solidarity Approach in Geography during 05-06 April, Shaheed Bhagat Singh College, University of Delhi.

6. **Sajjad, H (2020),** Assessing Household Food Security in Bijnor District. National Seminar on Population Explosion- Food Security Scenario & Sustainable Development in Rural India: Issues and Challenges, organized by Department of Geography, Meerut College Meerut.08th -09th February, 2020.

7. **Sajjad, H (2020),** Climate Change Induced Uncertainties in Food Security, Water Resources and Health. National Conference on Impact of Climate Change on Food, Water and Health: Issues and Challenges, organized by Department of Geography, Aligarh Muslim University, Aligarh, 1st -2nd February 2020.

8. **Sajjad, H (2020),** Exploring Effectiveness of Machine Learning Classification Algorithm in Google Earth Engine for Monitoring of Land use/land cover Change in Aurangabad District of Maharashtra. National Conference on Impact of Climate Change on Food, Water and Health: Issues and Challenges, organized by Department of Geography, Aligarh Muslim University, Aligarh, 1st -2nd February 2020. Co-presenter.

9. **Sajjad, H (2020),** Assessing Temporal Trend of Vegetation Condition using Temperature Vegetation Dryness Index in Nainital District, Uttarakhand. Conference on Impact of Climate Change on Food, Water and Health: Issues and Challenges, organized by Department of Geography, Aligarh Muslim University, Aligarh, 1st -2nd February 2020.

10. **Sajjad, H (2020),** A Systematic Review on Forest Vulnerability to Climate Change: Identification of Research Gaps and Direction for Future Studies. National Conference on Impact of Climate Change on Food, Water and Health: Issues and Challenges, organized by Department of Geography, Aligarh Muslim University, Aligarh, 1st -2nd February 2020.

11. **Sajjad, H (2020),** Analyzing Flood Vulnerability in Bhagirathi Sub-basin of West Bengal using Geographical Information System and Analytical Hierarchy Process. National Conference on Impact of Climate Change on Food, Water and Health: Issues and Challenges, organized by Department of Geography, Aligarh Muslim University, Aligarh, 1st -2nd February 2020.

12. **Sajjad, H (2020)**, Livelihood Vulnerability to Climate Variability: A Systematic Review. National Conference on Impact of Climate Change on Food, Water and Health: Issues and Challenges, organized by Department of Geography, Aligarh Muslim University, Aligarh, 1st -2nd February 2020.

13. **Sajjad, H (2020**), Analyzing Climate Variability in Guwahati City, Assam using Mann-Kendall Test and Sen' Slope. National Conference on Impact of Climate Change on

Food, Water and Health: Issues and Challenges, organized by Department of Geography, Aligarh Muslim University, Aligarh, 1st -2nd February 2020.

14. **Sajjad, H (2020)**, Climate Variability and Water Resource Management: A Systematic Literature Review. National Conference on Impact of Climate Change on Food, Water and Health: Issues and Challenges, organized by Department of Geography, Aligarh Muslim University, Aligarh, 1st -2nd February 2020.

15. **Sajjad, H (2019),** National Information System for Climate and Environment Studies (NICES) and Its Activities, organized by National Remote Sensing Centre (NRSC), ISRO, Department of Space, Government of India, Hyderabad and Department of Geography, Jamia Millia Islamia, New Delhi and conducted at Jamia Millia Islamia, Jan, 2019.

16. **Sajjad, H (2018**), Assessing Vulnerability for Coastal Districts of India Using Site-specific Indicators, 30th National Conference of Indian Institute of Geomorphologists (IGI) organized by Department of Geography, Jamia Millia Islamia, New Delhi, 3-5 October, 2018.

17. **Sajjad, H (2018),** Assessing the Impacts of Weather Variability on Drought in Godavari Middle Sub-Basin using Geospatial Techniques, 30th National Conference of Indian Institute of Geomorphologists (IGI) organized by Department of Geography, Jamia Millia Islamia, New Delhi, 3-5 October, 2018.

18. **Sajjad H (2018**), Agriculture, Sustainable Development and Climate Change: A Concern for Food Security, 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.

19. **Sajjad H (2018**), Participated in National Workshop on Impact of air pollution on monuments and its Preservation organized by Indian Association of Air Pollution Control (Delhi) (IAAPC) , November 3, 2018, Le meridian Hotel Janpath, New Delhi.

20. **Sajjad H (2018**), Advancement in Approaches and Methodologies for Assessing Flood Hazard Vulnerability: A Review, National Conference on Climate Change: Sustainable Agriculture and Environment, organized by Department of Geography, Aligarh Muslim University, Aligarh, 17-18 March, 2018.

21. **Sajjad H (2018),** Participated in National Conference on Role of Geospatial Technologies for Good Governance and Sustainable Development organized by Interdisciplinary Department of Remote Sensing and GIS Applications, Aligarh Muslim University, Aligarh during 17-19 February, 2018.

22. **Sajjad H (2017**), Land Suitability Assessment for Sugarcane Cultivation in Bijnor District, India Using Geographic Information System and Fuzzy Analytical Hierarchy Process. DST & Ministry Of Earth Sciences Sponsored International Conference (1&2 February, 2017) On Spatial Decision Support Systems For United Nations Sustainable Goals, Organized By Department of Geography, Kalindi College, University of Delhi

23. **Sajjad H (2017**), Landslide Susceptibility Assessment Using Integrated GIS and Fuzzy Logic Approach in Rudraprayag District, India. DST & Ministry Of Earth Sciences Sponsored International Conference (1&2 February, 2017) On Spatial

Decision Support Systems For United Nations Sustainable Goals, Organized By Department of Geography, Kalindi College, University of Delhi

24. **Sajjad H (2017)**, Preparing Wetland Inventory for Turbidity, Aquatic Vegetation and Wetland Habitat Disturbance in Lower Barpani Watershed, Assam, India. DST & Ministry Of Earth Sciences Sponsored International Conference (1&2 February, 2017) On Spatial Decision Support Systems For United Nations Sustainable Goals, Organized By Department of Geography, Kalindi College, University of Delhi

25. **Sajjad H (2017**), Household Characteristics and Forest Resource Dependency of Villages Located Inside Sariska Tiger Reserve, Rajasthan. DST & Ministry Of Earth Sciences Sponsored International Conference (1&2 February, 2017) On Spatial Decision Support Systems For United Nations Sustainable Goals, Organized By Department of Geography, Kalindi College, University of Delhi

26. **Sajjad, H (2016**), Assessing land use/ land cover change driven by changing river course in lower Damodar river basin, India, using remote sensing and GIS techniques. 9th International Geographical Union (IGU) Conference on Land use change, Climate Extremes and Disaster Risk Reduction in Shaheed Bhagat Singh College, University of Delhi, New Delhi, 18th to 20th March, 2016.

27. **Sajjad, H** (2015), Geo-database for landslide susceptibility mapping of Hamren sub-division of Karbi Anglong district in Assam, India, XXXV INCA International Congress on Spatial Governance for Development, Planning Smart Cities and Disaster Management, Organized by Indian National Cartographic Association (INCA), In collaboration with Centre for the Study of Regional Development, School of Social Sciences, Jawaharlal Nehru University, New Delhi, 15th to 17th December, 2015.

28. **Sajjad, H** (2015), Geospatial approach for cropping system analysis: A case study of Bijnor district Uttar Pradesh, India, XXXV INCA International Congress on Spatial Governance for Development, Planning Smart Cities and Disaster Management, Organized by Indian National Cartographic Association (INCA), In collaboration with Centre for the Study of Regional Development, School of Social Sciences, Jawaharlal Nehru University, New Delhi, 15th to 17th December, 2015.

29. **Sajjad, H** (2015), Integrated approach for assessing forest health in Indian Sundarban Reserve using remote sensing and GIS, XXXV INCA International Congress on Spatial Governance for Development, Planning Smart Cities and Disaster Management, Organized by Indian National Cartographic Association (INCA), In collaboration with Centre for the Study of Regional Development, School of Social Sciences, Jawaharlal Nehru University, New Delhi, 15th to 17th December, 2015.

30. **Sajjad, H** (2015), Monitoring health of landscape ecology using geospatial techniques: Evidence from Lower Barpani watershed, Assam, 37th Indian Geography Congress 2015 on Tourism Resources, Environment and Development with Remote Sensing and GIS Techniques, organized by the Department of Geography, University of Jammu, Jammu (J&K) In collaboration with National Association of Geographers, India, 2-4 December 2015.

31. **Sajjad, H** (2015), “Assessing Agricultural Sustainability in Vaishali District (Bihar): A Farm Level Analysis”, IX DGSI International Geography Conference on Tourism, Environment and Development, organized by University Department of Geography,

Magadh University, Bodh Gaya in collaboration with The Deccan Geographical Society, India, 26-28 February, 2015.

32. **Sajjad, H (2014),** "Food Security in Rural Areas of Vaishali District, India: A Household Level Analysis", 2nd International Conference on Sustainable Development, 26-27 September, 2014, organized by the European Center of Sustainable Development, Rome, Italy. 26.09.2014.

33. **Sajjad, H (2014**), "Livelihood security index for evaluating household food security: A case study of S-E Delhi, National Conference on Urbanization and environmental change in India –Problems and challenges, March 29th-30th, 2014, organized by Department of Geography, Meerut college, Meerut, U.P, Sponsored by ICSSR (New Delhi).

34. **Sajjad, H (2013),** "Assessment of socio-economic vulnerabilities among urban migrants in south-east Delhi, India, the 12th Asian Urbanization Conference, December 28-30, 2013, organized by Department of Geography, Banaras Hindu University, Varanasi, U.P. India, in association with The Asian Urban Research Association (AURA). 29.12.2013

35. **Sajjad, H (2013**), "Assessing Living and Health Conditions of Urban Poor: A Case from South –East Delhi, National Seminar on Climate Change, Environment & Sustainable Development, December 9th to December 10th, 2013, jointly organized by National Environmental Science Academy, India & Department of Botany, Jamia Hamdard, New Delhi. 09.12.2013.

36. **Sajjad, H (2013),** "Delineation of Groundwater Potential Zones using Remote Sensing and GIS Techniques: A Case Study of Dudhganga Catchment, Kashmir Valley, India" International Geographical Union (IGU) Conference on Geoinformatics for Bio-diversity and Climate Change, March 14-16, 2013, organized by Department of Geography, M.D University, Rohtak. 14.03.2013

37. **Sajjad, H (2013),** "Vulnerabilities among Slum Dwellers: A Case Study of Meerut City, India", International Conference on Environmental Issues and Sustainable Development, March 1-2, 2013, organized by Department of Geography, University of Jammu, Jammu.01.03.2013

38. **Sajjad, H (2013),** "Attended and participated in One Day Workshop of Coordinators Meet", organized by UGC Academic Staff College, Jamia Millia Islamia, New Delhi, 28.02.2013.

39. **Sajjad, H (2013), "**Strengthening Geography: Possible Future Developments" National seminar on Revisiting Geography as a sustainable Discipline, 20-21 February organized by Shri A.M Khwaja Chair, Jamia Millia Islamia, New Delhi. 21.02.2013

40. **Sajjad, H (2012),** "Sustainability Livelihood Security Index in Vaishali District, Bihar: A tool for Sustainable Agricultural Development, National Seminar on Population, Environment and Sustainable Development in India: Issues and Challenges, 22-23 December 2012 Organized by the Department of Geography, Meerut College Meerut, sponsored by the ICSSR. 22.12.2012

41. **Sajjad, H (2012),** "Assessing Groundwater Quality and Its Impact on the Quality of Life: A Case from Ghaziabad City, India, International Conference on Environment and Health, jointly organized by National Environmental Science Academy, New Delhi, India & Department of Botany, Jamia Hamdard, New Delhi, India, November 28th to November 29th, 2012. 29.11.2012

42. **Sajjad, H (2012),** "Food Security in Vaishali District of Bihar: A Spatio- temporal Analysis", International Conference on Population Dynamism and Sustainable Resource Development, Department of Geography, A.M.U., Aligarh, India, March 25-27, 2012. 26.03.2012

43. **Sajjad, H (2012),** "Unhygienic Living Conditions and Environmental Burden of Health problems of Slum Dwellers in Meerut City, India: A Threat to Environmental Sustainability", The Eighth International Conference on Environmental, Cultural, Economic and social sustainability, University of British Columbia, Vancouver, Canada, 10-12 January, 2012.

44. **Sajjad, H (2011),** "Impact of Industrialization on Groundwater Quality: A Case study of Ghaziabad City", 11th Asian Urbanization Conference, Department of Geography, Osmania University, Hyderabad, India, December 10th to 13th 2011. 11.12.2011

45. **Sajjad, H (2011**), "Use of Remote sensing and GIS Techniques in Crop Inventory and Land Use: A Shift in Methodological Approach", National Symposium on Paradigm Shift in Geography, Shri A. M. Khwaja Chair in collaboration with the Department of Geography, Jamia Millia Islamia, New Delhi, India, 28th to 29th November, 201, 28.11.2011

46. **Sajjad, H (2011**), "Status of Rural Women Workers in Meerut District, India: A Gender Sensitive Analysis", Eleventh International Conference on Diversity in Organizations, Communities and Nations 20 to 22 June 2011, University of the Western Cape Bellville, Cape Town, South Africa

47. **Sajjad, H (2011**), "An Analysis of Food Security Situation among Rural Households: A case Study of Bijnor District", National Conference on Population, Resource and Environment, March 1-2, 2011, Department of Geography under DRS-II (SAP-I), Aligarh Muslim University, Aligarh

48. **Sajjad, H (2010),** "Child Workers in Home Based Industries of Meerut city: Work Related Risks and Health Problems", 32nd India Geography Congress, November 19-21, 2010, Department of Geography, Punjab University, Chandigarh

49. **Sajjad, H (2010)**, "Child Workers in Meerut District, India: The Effects of Work on Health and Well-being", BSA Work, Employment and Society Conference 2010, 7-9 September, 2010, University of Brighton, Brighton, U.K.

50. **Sajjad, H (2010),** "Analysis of Land use Changes Using Remote Sensing and GIS: A Case Study of Dehradun District, Uttarakhand", Conference on Remote Sensing and GIS for Environmental Management (RSGIS-EM 2010). Department of Civil Engineering, Jamia Millia Islamia New Delhi

51. Participated in National seminar on “Economics of Solid Waste Management: An Indian Perspective”, sponsored by U.G.C, 12-13, March, 2010, Department of Economics, Jamia Millia Islamia, New Delhi

52. Participated in National Seminar on Climate Change and Socio-Economic Development in India: Spatial and Temporal Variation, sponsored by ICSSR, New Delhi, Department of Geography, Meerut College, Meerut, 8-9 May, 2010.

53. **Sajjad, H (2008),** “Economic Compulsion, Work Activities and Deprivation of Child Workers in Meerut District”, XXXII Indian Social Science Congress, 18-22 December, 2008, Indian Social Science Congress Jamia Millia Islamia, New Delhi

54. **Sajjad, H (2008),** “Spatio-temporal Analysis of Land Use and Land Cover Changes in Dehradun District”. National Conference on Environmental Challenges and Sustainable Development, 1st -2nd March 2008. Department of Geography, A.M.U., Aligarh

55. **Sajjad, H (2007),** “Socio-economic determinants and health conditions of working children in the slum areas of Meerut city”. National Conference on 'Environment, Development and Health', 24-25 Feb.2007, Department of Geography, AMU, Aligarh

56. **Sajjad, H (2007),** Attended 'Edusat based distance learning for Remote Sensing, GIS & GPS Indian Institute of Remote Sensing, National Remote Sensing Agency, Deptt. Of Space, Govt. of India, Dehradun, 2007

57. **Sajjad, H (2006),** “Rural unhygienic environment and its impact on health of child workers of Aligarh district”. National Conference on Conservation, Management and Development Deptt. Of Geography, CCS University, sponsored by State Land Use Board, Lucknow, 20-21 March, 2006. Meerut.

58. **Sajjad, H (2006),** “Rural Working and Living environments and their impact on Health of Child Workers of Aligarh District”, National Conference on Urban and Rural Environmental Management, 2-3 March, 2006, Deptt. of Geography, AMU., Aligarh

59. Participated in National Conference on Land and Water Resources: Their use and misuse in India, March 5-6, 2005, Deptt. Of Geography, AMU, Aligarh.

60. **Sajjad, H (1997),** “Children working in Agricultural and Non-agricultural sectors of Aligarh District”, International Conference on Resource Management and Development Strategies, Dec., 1997, Deptt. Of Geography, AMU. Aligarh

61. **Sajjad, H (1996**), “Seasonal Migration of Landless Labourers: Evidence from Rural areas of Aligarh district”, XVII Indian Geography Congress, Dec.1996, National Association of Geographers, Shillong, Meghalaya

62. **Sajjad, H (1996),** “Poverty and Child Labour: An Economic challenge”, National Conference on Population, Poverty and Pollution, March, 1996, Deptt. Of Geography, AMU. Aligarh, 14-16

63. **Sajjad, H (1995),** “Indebtedness among Landless Labourers in Aligarh District”, XVII Indian Geography Congress, Jammu, 29-31 Dec., 1995. National Association of Geographers.

Invited Talks Delivered

1. **Sajjad, H** (2025), Panelist, Policy Colloquium on Transboundary River Governance in South Asia, International Symposium on Himalayan River Systems: Transboundary Approaches to Land and Water Governance in South Asia organized by Department of Geomatics Engineering, School of Engineering, University of Kathmandu, Nepal in collaboration with Department of Geography, University of Manchester, UK, Department of History, Jagannath University, Dhaka, Bangladesh, North South University, Dhaka Bangladesh and Department of Geography, Presidency University , Kolkata, India and 16-17, April, 2025.

2. **Sajjad, H** (2025), **Keynote Speaker,** Geo-Analytics for Ecosystem Based Disaster Risk Reduction (EcoDRR), International Conference on Geospatial Innovations for Biodiversity Conservation, Climate Resilience and Sustainable Development Across Multi-Domains Ecosystems, Organized by Department of Geography, Kalindi College In association with Centre for Himalayan Studies, University of Delhi, April 8-9, 2025.

3. **Sajjad, H** (2025), Environmental Awareness under NEP 2020, NEP Orientation and Sensitization Programme, organized by Malaviya Mission Teacher Training Centre (MMTTC), Jamia Millia Islamia, New Delhi (03-12 March, 2025). Delivered on 10th of March, 2025.

4. **Sajjad, H** (2025), Climate change and Extreme Weather Events, Two week Refresher Course in Earth System Sciences (interdisciplinary), organized by Malaviya Mission Teacher Training Centre, University of Kashmir, Kashmir. Delivered on 26.02.2025.

5. **Sajjad, H** (2025), Climate change induced disasters assessment, Two week Refresher Course in Geography and Environmental Studies, organized by Malaviya Mission Teacher Training Centre, Jamia Millia Islamia, New Delhi. Delivered on 08.02.2025.

6. **Sajjad, H** (2025), Climate Variability and its Induced Disasters: A Concern for Adaptation and Mitigation, Faculty Development Programme on Artificial Intelligence for Disaster Resilience and Sustainable Development, Organized by School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi January 20-25, 2025. Delivered on 20.01.2025

7. **Sajjad, H** (2024), Keynote Speaker, Climate Change Induced Disasters: A Concern for Mitigation, National Conference on Climate Change and Natural Disasters: Preparedness, Mitigation and Management Strategies 23-24 November, 2024, Organized by Department of Geography, Meerut College, Meerut. Delivered on 24.11.2024.

8. **Sajjad, H (2024),** Keynote Speaker. Urban Redevelopment In Contemporary World And India International Conference (Hybrid) on Urban Development Missions, Restructuring of Spaces, and Emergence of New Urbanism, Organized by Department of Geography, Shaheed Bhagat Singh College, University of Delhi. *15th November -16th November 2024.* Delivered on 16.11.2024

9. **Sajjad, H (2023).** Climate Change and its Impacts: A Concern of Urgent Action (SDG), Online One month Faculty Induction Programme from 01 December to 31 December 2023. organized by The Malaviya Mission Teacher Training Centre, Jamia Millia Islamia. Delivered on 19.12.2023.

10. **Sajjad H (2023),** Climate Change Induced Disasters: A Concern for Implications and Mitigation, Online Subject Refresher Course in Disaster Management from 05 December to 18 December 2023, Organized by UGC-HRDC, Aligarh Muslim University, Aligarh. Delivered on 09.12.2023

11. **Sajjad H (2023),** Climate Variability and Landslide Susceptibility Assessment: Evidence from Shimla District of North-west Himalayan Region, Two week refresher course in Geography and Environmental Studies, 26 October-8 November, 2023 Organised by Malaviya Mission Teacher Training Centre (formerly UGC-HRDC), JMI delivered on 03.11.2023

12. **Sajjad H (2023)** | *Climate Change, Disasters and Environment* | Delivered a lead lecture in National Conference on Transforming India - Risk to Resilience, Special Centre of Disaster Research (SCDR), Jawaharlal Nehru University (JNU) with Disaster Management Initiatives and Convergence Society (DMICS), March 15-17, 2023.

13. **Sajjad H (2023)** | *Water Conservation: A Sustainable Development Goal* | 12th Online Faculty Induction Programme, 01 February to 28 February 2023, Organized by UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi, 23.02.2023

14. **Sajjad H (2022)** | *Sustainable Development Goals 2030: Climate Action and its Implications* | 11th Online Faculty Induction Program, 01 November to 29 November 2022, Organized by UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi.

15. **Sajjad H (2022)** | *Climate Variability and its Induced Storm Surge Vulnerability: A Study in Sundarban Biosphere Reserve* | 4th Two Week Refresher Course in Disaster Management, 22nd June to 4th August 2022, Organized by UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi. Delivered on 03.08.2022

16. **Sajjad H (2022), Keynote Speaker,** Contemporary Issues in Geography**:** *Global Environmental Degradation: Causes and Consequences in the Present Scenario,* Online Conference organized by National and International Geographers Forum, Vaishali, Bihar. Delivered on 16.07.2022.

17. **Sajjad H (2022)** | *Environmental Degradation and Health* | 9th Online Faculty Induction Programme, 8 June to 5 July 2022, Organized by UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi. Delivered on 01.07.2022

18. **Sajjad H (2022)** | *Assessment of Forest Health, Groundwater Potential and Soil Loss Using Integrated Geospatial Technology and Modeling Approach* | Interactive Methodology Course for Research Scholars, Organized by UGC HRDC, A.M.U Aligarh, 28 Feb-24 March 2022. Delivered on 05.03.2022.

19. **Sajjad H (2022)** | *Analyzing Relationship Between Drought and Soil Erosion in Godavari Middle Sub-basin* | 19th Refresher Course (Online) Sustainable Development and Environmental Management, Organized by UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi, 18th January to 1st February 2022. Delivered on 19.01.2022.

20. **Sajjad H (2022)** | *Climate Variability and Its Effects in Sundarban Biosphere Reserve: Reaffirmation from Local Communities* | 7th Online Faculty Induction Programme, 10 December to 08 January 2022, Organized by UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi. Delivered on 04.01.2022.

21. **Sajjad H (2021)** | *Climate Variability and Its Impact on Drought Occurrence in Middle Godavari Sub-basin* | 3rd Two Weeks Online Refresher Course in Disaster Management, Organized by UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi. Delivered on 27.12.2021.

22. **Sajjad H (2021)** | *Water Scarcity, Insecurity and Sustainability Challenges* | Plenary Session, International Conference on Water, Food and Nutrition Security for Health and Well-being, Organized by Department of Geography, Shaheed Bhagat Singh College, University of Delhi. Delivered on December 14, 2021.

23. **Sajjad H (2021)** | *Deepening Water Stress and Climate Change in India: Challenges for Achieving Sustainable Development Goals* | 6th Online Faculty Induction Programme, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi, 20 October - 18 November 2021. Delivered on 15.11.2021.

24. **Sajjad H (2021)** | *Climate Change and Disasters: A Concern for Adaptation and Mitigation* | 1st Online 2-Week Refresher Course in Computational & Mathematical Sciences Programme, 22 October to 05 November 2021, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi. Delivered on 09.10.2021.

25. **Sajjad H (2021)** | *Ecological Vulnerability to Climate Change Induced Disasters: Evidence from Indian Sundarban & Bhagirathi Sub-basin of West Bengal* | Wildlife Management using Geospatial Techniques under Green Skill Development Programme (GSDP) of the MoEF&CC, Government of India. Delivered on 08.03.2021.

26. **Sajjad H (2021)** | *Challenges of Flood: Vulnerability, Adaptation and Mitigation, Evidence from Bhagirathi Sub-basin* | 3rd Online Faculty Induction Programme, 28 December to 02 February 2020, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi. Delivered on 23.01.2021.

27. **Sajjad H (2020)** | *Climate Change Induced Disasters: Vulnerability and Mitigation* | XVth DGSI International Geography Online Conference (The Deccan Geographical Society, India) on Climate Change, Disasters & Sustainable Livelihood, 26-28 November 2020, Organized by Department of Geography, University of Allahabad, Prayagraj.

28. **Sajjad H (2020)** | *Vulnerability to Climate Change Induced Disasters: Concern for Adaptation and Mitigation* | Two Week Refresher Course on "Earth System

Sciences for Mitigating Disasters and Climate Change," Organized by UGC-Human Resource Development Centre, Kurukshetra University, Kurukshetra.

29. **Sajjad H (2020)** | *Remote Sensing and GIS Modeling for Assessing Forest Health* | 18th (1st online) 2-week Refresher Course in Geography and Environmental Studies, 'Spatiality and Sustainability for an Inclusive Future', Organized by UGC-Human Resource Development Centre in association with the Department of Geography, Jamia Millia Islamia, New Delhi, 09-24 November 2020.

30. **Sajjad H (2020)** | *Climate Change Induced Disasters, Vulnerability and Adaptation: Evidence from Sundarban Biosphere Reserve* | 1st Refresher Course in Environmental Science/Education, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi, 07-21 October 2020.

31. **Sajjad H (2020)** | *Disasters: Causes, Impacts and Management* | 128th Three Week Orientation Programme, 12th February to 03rd March 2020, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi. Delivered on 10.01.2020.

32. **Sajjad H (2020)** | *Climate Change Induced Disasters and Environmental Implications* | 02nd Two Week Course Refresher Course in Computational & Mathematics Sciences, 07th -20th February 2020, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi. Delivered on 10.01.2020.

33. **Sajjad H (2020)** | *Vulnerability to Disasters: Concerns for Management* | One Week Course on Disaster Management, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi. Delivered on 07.01.2020.

34. **Sajjad H (2019)** | *Role of Early Warning System in Disaster Management* | Orientation Programme, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi. Delivered on 02.03.2019.

35. **Sajjad H (2018)** | *Forest Canopy Density Model and Forest Fragmentation Models in Assessing Forest Degradation* | WWF. Delivered on 15.01.2019.

36. **Sajjad H (2018)** | *Impact of Disasters on Environment: A Concern for Management* | Refresher Course, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi. Delivered on 29.12.2018.

37. **Sajjad H (2018)** | *Assessment of Agricultural Sustainability using Sustainable Livelihood Security Index* | UGC-HRDC, Department of Geography, A.M.U., Aligarh. Delivered on 19.12.2018.

38. **Sajjad H (2018)** | *Scientific Research Proposal Preparation in Sciences* | UGC-HRDC, Department of Geography, A.M.U., Aligarh. Delivered on 19.12.2018.

39. **Sajjad H (2018)** | *Vulnerability to Natural Disasters in India: Concern for Management* | Orientation Programme, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi. Delivered on 01.09.2018.

40. **Sajjad H (2018)** | *Natural Disasters and their Early Warning Systems* | Orientation Programme, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi. Delivered on 21.07.2018.

41. **Sajjad H (2018)** | *Causes, Consequences and Management of Disasters* | Training Programme for Assistant Registrars, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi.

42. **Sajjad H (2017)** | *Research Methods in Geography and Paradigm in Geography and Social Sciences* | National Workshop on Research Methodology in Social Sciences, Organized by the Deptt. Of Psychology, CCS University, Meerut, December 8-17, 2017.

43. **Sajjad H (2017)** | *Hazards and Natural Disasters: A Concern for Mitigation* | Refresher Course, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi. Delivered on 20.11.2017.

44. **Sajjad H (2017)** | *Aerial Photographs and their Applications* | DST Workshop on Application of Remote Sensing, GIS and GPS in Natural Resource Management, Organized by Interdisciplinary Department of Remote Sensing and GIS, Aligarh Muslim University, Aligarh, October 14, 2017.

45. **Sajjad H (2017)** | *The Flow of Energy and Climate Change* | Orientation Programme, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi, August 12, 2017.

46. **Sajjad H (2017)** | *Understanding Climate Change: Causes and Consequences* | Summer School, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi, June 10, 2017.

47. **Sajjad H (2017)** | *Effects of Atmosphere in Understanding Climate Change* | 1st RC on Climate Change (Interdisciplinary), 20th February to 14th March, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi.

48. **Sajjad H (2017)** | *Heat Budget and Earth Climate System* | 1st RC on Climate Change (Interdisciplinary), 20th February to 14th March, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi.

49. **Sajjad H (2017)** | *Climate Change: Causes, Impact and Responses* | 117th 4-Week Orientation Programme, 15 February to 16 March 2017, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi.

50. **Sajjad H (2016)** | *Disasters in India: Preparedness and Mitigation* | 115th Orientation Programme, 27th April to 25th May 2016, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi.

51. **Sajjad H (2016)** | *Importance of Early Warning System in Disaster Management* | 2nd 3 Week Refresher Course in Disaster Management (Interdisciplinary), Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi, 20 July to 09 August 2016. Delivered on 26 July.

52. **Sajjad H (2016)** | *India's Vulnerability to Disaster: Preparedness and Mitigation* | 2nd 3 Week Refresher Course in Disaster Management (Interdisciplinary), Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi, 20 July to 09 August 2016. Delivered on 26 July.

53. **Sajjad H (2015)** | *Aerial Photography* | DST Sponsored Training Programme on Geospatial Technology Under NRDMS, 26 May - 15 June 2015, Organized by Department of Geography, Jamia Millia Islamia, New Delhi.

54. **Sajjad H (2015)** | *Increasing Surface Temperature in Sundarban Biosphere Reserve: Concern for Climate Change* | 111th 4 Week Orientation Programme, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi, 04 February to 04 March 2015. Delivered on 23 February.

55. **Sajjad H (2015)** | *Environmental Performance Index: A Tool for Assessing Inequalities and Planning* | 11th 4 Week Orientation Programme, Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi, 04 February to 04 March 2015. Delivered on 16 February.

56. **Sajjad H (2015)** | *Environmental and Socio-economic Vulnerabilities to Disasters in India* | 1st 3 Week Refresher Course in Disaster Management (Interdisciplinary), Organized by UGC-HRDC, Jamia Millia Islamia, New Delhi, 09 February to 02 March 2015. Delivered on 16 February.

57. **Sajjad H (2014)** | *Basics of Aerial Photography* | DST Sponsored Training Programme on Geospatial Technologies Under NRDMS, 2nd -23rd June 2014, Organized by Department of Geography, Jamia Millia Islamia, New Delhi.

58. **Sajjad H (2014)** | *Image Interpretation* | DST Sponsored Training Programme on Geospatial Technologies Under NRDMS, 2nd -23rd June 2014, Organized by Department of Geography, Jamia Millia Islamia, New Delhi.

59. **Sajjad H (2014)** | *How to Prepare Research Proposal* | 4th Refresher Course in Basic Sciences (Interdisciplinary), Organized by UGC-Academic Staff College, Jamia Millia Islamia, New Delhi, 12 May to 02 June 2014.

60. **Sajjad H (2014)** | *Vulnerability to Disasters in India: Preparedness and Mitigation* | Refresher Course in Disaster Management, Organized by UGC Academic Staff College, Aligarh Muslim University, Aligarh, March 19 - April 7, 2014.

61. **Sajjad H (2014)** | *Soil and Land Degradation: Natural and Manmade Hazards* | UGC Refresher Course on Disaster Management, March 31 - April 24, 2014, Organized by Department of Geography, University of Allahabad.

62. **Sajjad H (2014)** | *Soil Management in Indian Perspective* | UGC Refresher Course on Disaster Management, March 31 - April 24, 2014, Organized by Department of Geography, University of Allahabad.

63. **Sajjad H (2013)** | *Photogrammetry: Basic Concepts and Techniques* | 16th RC Geography & Environmental Studies, 19th November to 09th December 2013, Organized by UGC Academic Staff College, Jamia Millia Islamia, New Delhi.

64. **Sajjad H (2013)** | *Photogrammetry: Practical Exercises* | 16th RC Geography & Environmental Studies, 19th November to 09th December 2013, Organized by UGC Academic Staff College, Jamia Millia Islamia, New Delhi.

65. **Sajjad H (2013)** | *Basics of Photogrammetry* | ISRO Sponsored Training Programme on Basics of Remote Sensing and GIS, 17th -29th June 2013, Organized by Department of Geography, Jamia Millia Islamia, New Delhi.

66. **Sajjad H (2013)** | *Basics of Aerial Photography* | ISRO Sponsored Training Programme on Basics of Remote Sensing and GIS, 17th -29th June 2013, Organized by Department of Geography, Jamia Millia Islamia, New Delhi.

67. **Sajjad H (2013)** | *Overview to Aerial Photography* | One Week Workshop on Remote Sensing and GIS Training for Amar Singh College Students, University of Kashmir, 12.03.2013.

68. **Sajjad H (2013)** | *Image Interpretation Techniques* | One Week Workshop on Remote Sensing and GIS Training for Amar Singh College Students, University of Kashmir, 12.03.2013.

69. **Sajjad H (2012)** | *Overview to Aerial Photography* | DST Sponsored Three Weeks Workshop on Geospatial Technologies and Applications, Department of Geography, Jamia Millia Islamia, New Delhi, May 22 - June 11, 2012.

70. **Sajjad H (2012)** | *Numerical Problems on Aerial Photographs* | DST Sponsored Three Weeks Workshop on Geospatial Technologies and Applications, Department of Geography, Jamia Millia Islamia, New Delhi, May 22 - June 11, 2012.

71. **Sajjad H (2011)** | *Fundamentals of Photogrammetry* | 14th Refresher Course in Geography & Environmental Studies, UGC-Academic Staff College, Jamia Millia Islamia, New Delhi.

72. **Sajjad, H (2011)** | *Determination of the Scale of Aerial Photographs* | 14th Refresher Course in Geography & Environmental Studies, UGC-Academic Staff College, Jamia Millia Islamia, New Delhi, 21st November 2011

73. **Sajjad, H (2011)** | *Determination of Heights of Objects using Aerial Photographs* | 14th Refresher Course in Geography & Environmental Studies, UGC-Academic Staff College, Jamia Millia Islamia, New Delhi, 22nd November 2011

74. **Sajjad, H (2010)** | *Delivered lectures on Image Interpretation* | DST Sponsored Two Weeks Winter Workshop, 29.12.2009 – 11.01.2010, Organized by Department of Geography, Jamia Millia Islamia, New Delhi.

75. **Sajjad, H (2009)** | *Delivered three lectures for Post Graduate Diploma in GIS and Remote Sensing (RS) on Fundamentals of Photogrammetry* | National Power Training Institute, Faridabad, Govt. of India, Ministry of Power.

Foreign Visits

1. **2025-Nepal**, to attend as Panelist and Chair the session at International Symposium on Himalayan River Systems: Transboundary Approaches to Land and Water Governance in South Asia organized by Department of Geomatics Engineering, School of Engineering, University of Kathmandu, Nepal in collaboration with Department of Geography, University of Manchester, UK, Department of History, Jagannath University, Dhaka, Bangladesh, North South

University, Dhaka Bangladesh and Department of Geography, Presidency University , Kolkata, India and 16-17, April, 2025.

2. **2014-Rome, Italy**, to attend and present paper at the 2nd International Conference on Sustainable Development, 26-27 September, 2014, European Center of Sustainable Development and Sapienza University of Rome, Rome, Italy.

3. **2012-Vancouver, Canada**, to attend and present paper in the Eighth International Conference on Environmental, Cultural, Economic and Social Sustainability, 10-12 January, 2012, University of British Columbia, Vancouver, Canada.

4. **2011-Cape Town, South Africa**, to attend and present paper in the Eleventh International Conference on Diversity in Organizations, Communities and Nations 20 to 22 June 2011, University of the Western Cape Bellville, Cape Town, South Africa.

5. **2010-Brighton, United Kingdom**, to attend and present paper in BSA Work, Employment and Society Conference 2010, 7-9 September, 2010, University of Brighton, Brighton, U.K.

6. Session Chaired in the Conferences

1. Sajjad, H (2025), chaired a technical session, International Symposium, Transflood
2. **Sajjad, H** (2024), chaired a technical session in International Conference on Global Climate Change: Resilient Society and Sustainable Development, 28th to 30th September 2024, organized by the Department of Geography, Aligarh Muslim University, Aligarh.

3. **Sajjad, H (2023)** | *Chaired a technical session* | National Conference on Transforming India - Risk to Resilience, Special Centre of Disaster Research (SCDR), Jawaharlal Nehru University (JNU) with Disaster Management Initiatives and Convergence Society (DMICS), March 15-17, 2023.

4. **Sajjad, H (2022)** | *Integrated geospatial technology and modeling approach for assessing natural resources of the Earth System* | Keynote Address, International Geographical Union, Nov. 24-25, 2022, Central University of Haryana.

5. **Sajjad, H (2022)** | *Chaired a technical session* | National Conference on Agriculture, Environment and Sustainable Development in India: Post Independence Scenario, organized by the Department of Geography, Aligarh Muslim University, Aligarh, November 5-6, 2022.

6. **Sajjad, H (2021)** | *Chaired a technical session on "Peace, Justice and Strong Institutions and Partnership for the Goals"* | International Conference on "Future Challenges and Sustainable Development Goals: Science to Policy Framework", April 16-18, 2021, Shaheed Bhagat Singh College, University of Delhi.

7. **Sajjad, H (2021)** | *Chaired Technical Session IV: Climate Change and International Solidarity* | International Conference held online, April 5-6, 2021, on Exploring the Application of Solidarity Approach in Geography, Shaheed Bhagat Singh College, University of Delhi.

8. **Sajjad, H (2020)** | *Chaired a seminar presentation session online using Google Meet Tool* | First One Month Faculty Induction Programme from October 5 to November 3, 2020, organized by UGC-HRDC, Jamia Millia Islamia, New Delhi, October 31, 2020.

9. **Sajjad, H (2020)** | *Chaired Technical Session on Geography* | JTA Multidisciplinary International Conference, JTACON-2020, February 16-18, 2020.

10. **Sajjad, H (2020)** | *Chaired Technical Session on Food Security and Sustainable Development* | National Seminar on Population Explosion - Food Security Scenario & Sustainable Development in Rural India: Issues and Challenges, organized by Department of Geography, Meerut College, Meerut, February 8-9, 2020.

11. **Sajjad, H (2020)** | *Chaired a technical session on Climate Change Induced Uncertainties* | National Conference on Impact of Climate Change on Food, Water and Health: Issues and Challenges, organized by Department of Geography, Aligarh Muslim University, Aligarh, February 1-2, 2020.

12. **Sajjad, H (2019)** | *Chaired a technical session: Theme 1: Climate Change, Environmental Problems and Management, Policies and Laws* | National Seminar on "Spatial Dimensions of Environmental Problems and Natural Resource Law", Conference Center, North Campus, University of Delhi, organized by Department of Geography, Shaheed Bhagat Singh College, September 3-4, 2019.

13. **Sajjad, H (2018)** | *Chaired a technical session: Agriculture, Sustainable Development and Climate Change: A Key to Food Security-I* | International Conference on Global Water Crisis: Agriculture and Food Security in the Era of Climate Change, Department of Geography, Aligarh Muslim University, Aligarh, December 1-3, 2018.

14. **Sajjad, H (2018)** | *Chaired VI technical session* | National Conference on Climate Change: Sustainable Agriculture and Environment, Department of Geography, Aligarh Muslim University, Aligarh, March 17-18, 2018.

15. **Sajjad, H (2018)** | *Chaired a technical session on Land Use and Technology* | Interdisciplinary Department of Remote Sensing and GIS, Aligarh Muslim University, Aligarh, February 17-19, 2018.

16. **Sajjad, H (2017)** | *Chaired a technical session* | DST & Ministry of Earth Sciences Sponsored International Conference on Spatial Decision Support Systems for United Nations Sustainable Goals, organized by Department of Geography, Kalindi College, University of Delhi, February 1-2, 2017.

17. **Sajjad, H (2016)** | *Chaired Technical Session on Climate Change* | ICSSR sponsored National Seminar on Climate Change and Sustainable Development in India: Problems and Challenges, organized by Department of Geography, Meerut College, Meerut, November 13-14, 2016.

18. **Sajjad, H (2015)** | *Chaired Technical Session on Cartography for Disaster Management-I* | XXXV INCA International Congress on Spatial Governance for

Development, Planning Smart Cities and Disaster Management, organized by Indian National Cartographic Association (INCA) in collaboration with Centre for the Study of Regional Development, School of Social Sciences, Jawaharlal Nehru University, New Delhi, December 15-17, 2015.

19. **Sajjad, H (2015)** | *Chaired Technical Session-I* | 37th Indian Geography Congress 2015 on Tourism Resources, Environment and Development with Remote Sensing and GIS Techniques, organized by the Department of Geography, University of Jammu, Jammu (J&K) in collaboration with National Association of Geographers, India, December 2-4, 2015.

20. **Sajjad, H (2015)** | *Chaired Technical Session* | IX DGSI International Geography Conference on Tourism, Environment and Development, organized by University Department of Geography, Magadh University, Bodh Gaya in collaboration with The Deccan Geographical Society, India, February 26-28, 2015.

21. **Sajjad, H (2014)** | *Chaired Technical Session* | National Conference on Urbanization and Environmental Change in India – Problems and Challenges, March 29-30, 2014, organized by Department of Geography, Meerut College, Meerut, U.P, sponsored by ICSSR (New Delhi).

22. **Sajjad, H (2013)** | *Chaired Technical Session* | The 12th Asian Urbanization Conference, December 28-30, 2013, organized by Department of Geography, Banaras Hindu University, Varanasi, U.P., India, in association with The Asian Urban Research Association (AURA).

23. **Sajjad, H (2013)** | *Co-chaired Technical Session* | International Geographical Union (IGU) Conference on Geoinformatics for Biodiversity and Climate Change, March 14-16, 2013, organized by Department of Geography, M.D. University, Rohtak.

24. **Sajjad, H (2013)** | *Chaired Technical Session VIII: Natural Resource Management* | International Conference on Environmental Issues and Sustainable Development, March 1-2, 2013, organized by Department of Geography, University of Jammu, Jammu.

25. **Sajjad, H (2012)** | *Co-chaired Technical Session* | National Seminar on Population, Environment and Sustainable Development in India: Issues and Challenges, December 22-23, 2012, organized by the Department of Geography, Meerut College, Meerut, sponsored by the ICSSR.

26. **Sajjad, H (2012)** | *Co-chaired Technical Session-X: Resource Degradation, Environmental Pollution and Management* | International Conference on Population Dynamism and Sustainable Resource Development, Department of Geography, A.M.U., Aligarh, India, March 25-27, 2012.

27. **Sajjad, H (2010)** | *Co-chaired Technical Session* | National Seminar on Climate Change and Socio-Economic Development in India: Spatial and Temporal Variation, sponsored by ICSSR, New Delhi, Department of Geography, Meerut College, Meerut, May 8-9, 2010.

28. **Sajjad, H (2006)** | *Chaired Technical Session* | National Conference on Conservation, Management and Development, March 20-21, 2006, Department of Geography, CCS University, Meerut.

Major Research Project Completed/Ongoing

1. **Co-Principal Investigator**. *Planning Atlas for Vrindavan Town, Mathura (U.P.)*, | NRDMS, DST, New Delhi.

2. **Co-Principal Investigator**. *Planning Atlas for Class II Towns of Uttar Pradesh*, | DST, New Delhi.

3. **Co-Principal Investigator**. *Solid Waste Management in Ambedkar Nagar District, Uttar Pradesh using Remote Sensing and GIS,* | University Grant Commission, New Delhi.

M.A/PGDRS Dissertation under Supervision

1. **Name of the Student:** Mehran Ali Khan
   Topic of Dissertation: Groundwater Potential Assessment Using Remote Sensing, GIS and AHP Techniques: A Case Study of Saran District of Bihar (2025)

2. **Name of the Student:** H A Chonchuimi
   Topic of Dissertation: Flood Susceptibility Mapping Using Remote Sensing, GIS and AHP Techniques: A Case Study of Manipur Valley Districts (2025)

3. **Name of the Student:** Ankit Singh
   Topic of Dissertation: Extent of Water, Land Cover and Moisture Assessment During Pre and Post Monsoon Seasons in Keoladeo National Park, Rajasthan (2025)

4. **Name of the Student**: Shabnam Parveen
   Topic of Dissertation: An Analysis of Food Security Situation among Poor Urban Households: A Case Study of Okhla, South Delhi District (2011)

5. **Name of the Student:** Nazia Khan
   Topic of Dissertation: Differential Gender Drop-out Rates among Primary School Children: A Case Study of Noor Nagar, Okhla, South Delhi District (2011)

6. **Name of the Student:** Md. Faique Hussain
   Topic of Dissertation: Socio-economic Conditions of Vulnerable Urban Migrants: A Case Study of South-east Delhi, 2012

7. **Name of the Student:** Mohammed Ali Khan
   Topic of Dissertation: Inequalities in Living and Health Conditions in Urban Area: A Case Study of South-East Delhi

8. **Name of the Student:** Roshan
   Topic of Dissertation: Mapping and Characterization of Okhla Bird Sanctuary Using Remote Sensing and GIS, 2013

9. **Name of the Student:** Mehebub Sahana
   Topic of Dissertation: Changing River Course and Its Impact on Land Use and Land Cover Using Remote Sensing and GIS: A Case Study, 2013.

10. **Name of the Student:** Shoiba Arfeen Khan
    Topic of Dissertation: Impact of Parental Assets and Expectation on Children Educational Achievement: A case Study of South Delhi (2014)

11. **Name of the Student:** Abdur Rahman Mirza
    Topic of Dissertation: Impact of Flood on Socio-Economic Conditions: A case Study of Lower Ajoy River

12. **Name of the Student:** Raihan Ahmed
    Topic of Dissertation: Crop Acreage and Yield Estimation of Paddy by Remote Sensing Techniques: A Case Study of Nagaon District

13. **Name of the Student:** Md Jabir Hussain
    Topic of Dissertation: Study of Vegetation Analysis in Kangra District (Himachal Pradesh)

14. **Name of the Student:** Kashifa Kamal
    Topic of Dissertation: Analysis of Turbidity of Water of East Kolkata Wetland

15. **Name of the Student:** Ravinder Singh
    Topic of Dissertation: Landslide Susceptibility Mapping by Remote Sensing and GIS Techniques: A case study of Hamren Sub-district (Karbi Anglong)

16. **Name of the Student:** SK Nuhul Hossain
    Topic of Dissertation: Landscape Vulnerability to Flood Inundation using Geospatial Technique: A Case Study of Malda District, West Bengal

17. **Name of the Student:** Rahul Kumar
    Topic of Dissertation: Identification of Groundwater Potential Zones in Upper Ramganga Sub-catchment, Uttarakhand, India Using Remote Sensing and GIS Techniques

18. **Name of the Student:** Maryam Tahir
    Topic of Dissertation: Monitoring Forest Health using Fragmentation Model, A Case Study of Song Watershed, Uttarakhand

19. **Name of the Student:** Gul Ahmar
    Topic of Dissertation: A Remote Sensing and GIS based Wetland Mapping of Bijnor District, India

20. **Name of the Student:** Rehan Ali
    Topic of Dissertation: Role of Geospatial Intelligence in Agricultural Drought Assessment and Monitoring: A study from Maharashtra (2024)

21. **Name of the Student:** Durgesh Dwivedi
    Topic of Dissertation: Impact of Flash Flood on Land Degradation in Vashishti River Basin (2022)

22. **Name of the Student:** Pranjul Agrawal
    Topic of Dissertation: Landslide Susceptibility Mapping using Remote Sensing and GIS, in Uttarkashi District of Uttarakhand (2022)

23. **Name of the Student:** Md Rejaul Islam
    Topic of Dissertation: Climate Variability and its Impact on Wetland Coverage: A case study on Kharibari Wetland, North 24 Parganas, West Bengal (2022)
24. **Name of the Student:** Rashid Latief Bhatt
    Topic of Dissertation: Analyzing the Driving Factors for Flooding in Srinagar City (2019)

25. **Name of the Student:** Rahul
    Topic of Dissertation: Livelihood Vulnerability Assessment in Slum Area: A case of Old Seelampur, East Delhi (2019)

26. **Name of the Student:** Intejar Ansari
    Topic of Dissertation: Estimation of Soil Erosion using RUSLE Model in Pilibhit District of Uttar Pradesh, A Geospatial Approach (2022)

27. **Name of the Student:** Maryam Tahir
    Topic of Dissertation: Impact of Flood on Socio-economic Conditions: A case Study of Lower Ajoy River

28. **Name of the Student:** Md. Faique Hussain
    Topic of Dissertation: Socio-economic Conditions of Vulnerable Urban Migrants: A Case Study of South-east Delhi

29. **Name of the Student:** Iqra Hasan
    Topic of Dissertation: Assessment of Remote Sensing-based Indices for Urban Drought Monitoring in NCT Delhi (2023)

30. **Name of the Student:** Mohammad Musannif Khan
    Topic of Dissertation: Analyzing the Extent of Coastal Vulnerability in Jagatsinghapur District of Odisha (2019)

31. **Name of the Student:** Mohammad Arman
    Topic of Dissertation: Drought Assessment: A Case Study of Aurangabad District (2019)

32. **Name of the Student:** Aaliya Wasif
    Topic of Dissertation: Monitoring of Spatio-temporal Drought Conditions in Banda District, Uttar Pradesh, India

33. **Name of the Student:** Priya Tiwari
    Topic of Dissertation: Flood Risk Assessment using Geospatial Technique: A Case Study of Supaul District (2018)

34. **Name of the Student:** Neelam Pandey
    Topic of Dissertation: Deforestation and Landscape Fragmentation Risk to Natural and Anthropogenic Influences in Rudraprayag District, India (2016)

35. **Name of the Student:** Aastha Sharma
    Topic of Dissertation: Hazard Assessment of Glacial Lake Outburst Flood: A case study of Chamoli District, Uttarakhand

36. **Name of the Student:** Aasia Mukhtar
    Topic of Dissertation: Remote Sensing and GIS based Approaches to Urban Flood Studies: A Case Study of Mumbai City.

37. **Name of the Student:** Juhi Priyanka Horo
    Topic of Dissertation: Assessment of Onset through Dissipation of Yass Tropical Cyclone on the Eastern Coast of India using Geospatial Techniques.

38. **Name of the Student:** Rayees Ali
    Topic of Dissertation: Groundwater Potential Assessment Using Remote Sensing, GIS and AHP Techniques: A Case study of Lidder Valley Region of Jammu and Kashmir

39. **Name of the Student:** Maria Jabbar
    Topic of Dissertation: Flood susceptibility analysis using remote sensing, GIS and AHP techniques: A Case Study of Kosi Sub Basin in the Ganga River Basin

40. **Name of the Student:** Md. Nawazish Akhter
    Topic of Dissertation: Analyzing the driving factors for Flooding in Srinagar City.
41. **Name of the Student:** Afzal Hussain
    Topic of Dissertation: Climate Change Induced Disaster Risks

42. **Name of the Student:** Nisar Ahmad Arghandwal
    Topic of Dissertation: Analysis of Urban Morphology: A Case Study of Kandahar City, Afghanistan

43. **Name of the Student:** Nazia Rehman Warsi
    Topic of Dissertation: Differential Gender Dropout Rates Among Primary School Children, A case study of Noor Nagar, Okhla, South Delhi District

44. **Name of the Student:** Mohd Rihan
    Topic of Dissertation: Rainfall Distribution Pattern and its Impact on Vegetation Growth: A case Study of Nainital District, India

45. **Name of the Student:** Mohd Shadab
    Topic of Dissertation: Urban Expansion and its Impact on Land Surface Temperature on Mumbai City

46. **Name of the Student:** Sakshi Mankotia
    Topic of Dissertation: Monitoring and Assessing Forest Cover Change in Palamu Tiger Reserve

47. **Name of the Student:** Nirsobha Bhuyan
    Topic of Dissertation: Mapping of Flood Zones Using GIS Techniques: A case Study of Guwahati City

48. **Name of the Student:** Rafia Khan
    Topic of Dissertation: Assessing Habitat Suitability of Okhla Bird Sanctuary Using Geospatial Technology

49. **Name of the Student:** Rahul Chaurasia
    Topic of Dissertation: Dual Seasonal Mapping of Wetlands Inundation and Vegetation: East Kolkata Wetlands

50. **Name of the Student:** Muhammed Shahid E
    Topic of Dissertation: Socio-economic Condition of Malabar Region and Kerala after Gulf Migration

51. **Name of the Student:**
    Topic of Dissertation: Site Suitability Analysis for Solid Waste Management: A Case Study of Jammu City

52. **Name of the Student:** Rahul
    Topic of Dissertation: Livelihood Vulnerability Assessment in Slum Area: A Case Study of Old Seelampur (East Delhi)

53. **Name of the Student:** Mariya Hasnat
    Topic of Dissertation: Identification of Groundwater Potential Zones Using Geospatial Techniques in Concurrence with Analytical Hierarchal Process: A study in Prayagraj District, UP India

54. **Name of the Student:** Ayesha Zaheen
    Topic of Dissertation: Site Suitability Analysis for Solid Waste Management: A Case Study of Jammu City

55. **Name of the Student:** Aditi Aggarwal
    Topic of Dissertation: Delineating Groundwater Potential Zones using Geospatial Techniques and Analytical Hierarchy Process of NCT Delhi.

Peer Review Contributions

- Reviewer of Journal of Ecology and the Natural Environment
- Reviewer of Arabian Journal of Geosciences
- Reviewer of International Journal of Environmental Protection
- Reviewer of Development in Practice, Taylor and Francis group
- Reviewer of International Journal of Sociology and Anthropology
- Reviewer of Bulletin of Geography: Socio-Economic Series
- Reviewer of International Area Studies Review
- Reviewer of Frontiers of Earth Science
- Reviewer of Forum for Development Studies
- Reviewer of Modelling Earth Systems and Environment
- Reviewer Ecological Indicators
- Reviewer Spatial Information Research
- Reviewer of International Journal of Applied Earth Observation and Geoinformation
- Reviewer of Remote Sensing Applications: Society and Environment.
- Reviewer of Ecological Engineering.
- Reviewer of Environmental Earth Sciences
- Reviewer of Science of the Total Environment
- Reviewer of Trees: Structure and Function
- Reviewer of Journal of Urban Planning and Development
- Reviewer of Advances in Space Research
- Reviewer of Agronomy
- Reviewer of GeoJournal
- Reviewer of Natural Resources Research
- Reviewer of Sustainable Cities and Society
- Reviewer of Land Degradation and Development
- Reviewer of Environment, Development and Sustainability
- Reviewer of Environmental Monitoring and Assessment
- Reviewer of S N Applied Sciences
- Reviewer of Geology, Ecology and Landscape
- Reviewer of Computers and Electronics in Agriculture

- Reviewer of Mathematical Problems in Engineering
- Reviewer of Water Science and Engineering
- Reviewer of Cities
- Reviewer of Journal of Cleaner Production
- Reviewer of Acta Geophysica
- Reviewer of Progress in Disaster Science
- Reviewer of Scientific Reports
- Reviewer of International Journal of Urban Sciences
- Reviewer of Climate Change
- Reviewer of GI Science and Remote Sensing
- Reviewer of Applied Geomatics
- Reviewer of Journal of Environmental Management
- Reviewer of Scientific African
- Reviewer of Environmental Science and Pollution Research
- Reviewer of Wetlands, Ecology and Management
- Reviewer of Water
- Reviewer of Archives of Agronomy and Soil Science
- Reviewer of Geospatial Information Science
- Review of Journal of King Saud University- Engineering Sciences
- Reviewer of Resources, Environment and Sustainability
- Reviewer of Regional Science, Policy and Practice
- Reviewer of Weather and Climate Extremes
- Reviewer of Annals of GIS
- Reviewer of Environmental Quality Management
- Reviewer of International Journal of Disaster Risk Reduction
- Reviewer of Area
- Review of Local Environment
- Reviewer of Catena
- Hygiene and Environmental Health Advances

Conferences/Workshop/Training Programmes Organized

1. Convenor (2024), **Climate Change, Disaster Management and Environmental Sustainability**

2. **Convenor (2022),** National Conference on 'Landslide Risk Assessment and Mitigation in India', organized by the Department of Geography, Jamia Millia Islamia, New Delhi, during 01-02 November, 2022.

3. **Convenor (2022),** Faculty Development Training Programme on Disaster Risk Reduction organized by the Dept. of Geography, JMI in collaboration with NIDM during 10-05 August, 2022.

4. **Organizing Secretary (2021),** International Conference (Online) *On* Challenges of Disasters: Vulnerability, Adaptation and Resilience organized by Centre for Disaster Management, Department of Geography, Jamia Millia Islamia in collaboration with National Institute of Disaster Management (NIDM) and Regional Remote Sensing Centre (RRSC-North), ISRO, New Delhi during 02-03 March, 2021.

5. **Organizing Secretary (2020),** International Conference (Online) *On* Building Resilient and Sustainable Societies: Emerging Social and Economic Challenges (Under UGC-DRS SAP-I programme), organized by Department of Geography, Jamia Millia Islamia, New Delhi during 25-26 November, 2020.

6. **Co-Director (2019).** 3-Week Training Programme on Geospatial Technologies for Watershed Management under NRDMS in DST during 24.06.2019 - 14.07.2019, Organized by Department of Geography, Jamia Millia Islamia, New Delhi.

7. **Organizing Secretary (2018).** 30th National Conference of IGI on Geomorphology, Environment and Society during 3-5 October, Organized by Department of Geography, Jamia Millia Islamia, New Delhi.

8. **Director (2017)**, ICSSR sponsored Research Methodology Course for Ph. D students in Social Sciences, organized by Department of Geography, Jamia Millia Islamia, 15-25 March.

9. **Joint Organizing Secretary (2017)**, National Conference on Geoinformatics for Natural Resource Management, organized by Department of Geography, Jamia Millia Islamia, New Delhi, 7-8 February.

10. **Co-Director (2014)**. DST Sponsored Training Programme on Geospatial Technologies Under NRDMS, organized by Deptt of Geography, JMI, Delhi, .2nd - 23rd June.

11. **Co-Director (2013)**. Department of Space (DoS), Government of India Sponsored Two Weeks Training on Basics of Remote Sensing and GIS, Department of Geography, Jamia Millia Islamia, New Delhi, 17-30 June, 2013.

12. **Course Coordinator (2013)**, 15th Refresher Course in Geography and Environmental Studies (22nd January to 13th February 2013), organized by Academic Staff College, Jamia Millia Islamia, New Delhi.

13. **Co-Director (2012)**. DST Funded Summer Training Programme on Geospatial Technologies and Applications under NRDMS Programme in DST, Department of Geography, Jamia Millia Islamia, New Delhi, 22 May, 2012 - 11 June.

14. **Co-Director (2010).** DST Sponsored Two Weeks Winter Workshop on Application of Remote Sensing, GIS and GPS in Natural Resource Management, Department of Geography, Jamia Millia Islamia, New Delhi, 29 December, 2009 -11 January.

15. **Convener (2008)**. Population Science Research Committee, XXXII Indian Social Science Congress on 'The Indian Republic at the Crossroads', Jamia Millia Islamia, New Delhi, 18 to 22 December.

Training/ Refresher and Orientation Programmes Attended

- Remote Sensing and GIS Applications in Agriculture and Soil from 07.05.2007 to 29.06.2007, Indian Institute of Remote Sensing, NRSA, Department of Space, Government of India, Dehradun
- Attended Refresher Programme from 16.01.2009 to 06.02.2009, organized by the UGC-ASC, Jamia Millia Islamia, New Delhi
- Attended Refresher Programme from 24.07.2006 to 12.08.2006, organized by the UGC-ASC, Jamia Millia Islamia, New Delhi
- Attended Orientation Programme from 09.09.2003 to 10.10.2003, organized by the UGC-ASC, Aligarh Muslim University, Aligarh

Membership of National Scientific Organizations

- Life Member, Association of Punjab Geographers, Patiala (Punjab);
- Life Member of Institute of Indian Geographers, Pune
- Life Member of Association of Population Geographers of India, Chandigarh
- Member, Earth Science Society, Lucknow (U.P.).
- Member of National Geographical Society of India
- Member, International Society for Development and Sustainability, Japan
- Member of Expert Committee Major Programmes of the ICSSR namely Research Programme.

Contribution to the Administrative Life of the University

- Head, Deptt. of Geography, JMI (2022- 2025)

- Provost, Hall of Boys' Residence, Campus B (Now Dr. Zakir Husain Hall of Boys' Residence), JMI (2015 -2017)
- Chief Proctor, Jamia Millia Islamia (2017 -2019)
- Member, Member of Court (Anjuman), Jamia Millia Islamia (2024-2025)
- Member, Anti-ragging Committee, Jamia Millia Islamia (2017-2019)

Contribution to the Academic Life of the University

- Member, Academic Council, Jamia Millia Islamia (2022- 2025)
- Member, Board of studies, Department of Applied and Humanities, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi (2016-2019)
- Member, Board of studies, Department of Geography, Aligarh Muslim University, Aligarh (2023 till date)

(Prof. Haroon Sajjad)
New Delhi | May, 2025