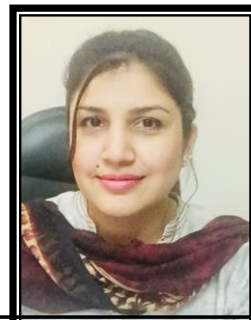


SAIMA SIDDIQUI

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WORK EXPERIENCE:

Director (11th August 2023 to date)
Centre for Integrated Mountain Research (CIMR)
University of the Punjab, Lahore Pakistan

Professor (03rd May 2023 to date)
Centre for Integrated Mountain Research (CIMR)
University of the Punjab, Lahore Pakistan

Director (1st December 2021 to 11th August 2023)
Quality Enhancement Cell (QEC)
University of the Punjab, Pakistan

Associate Professor (26th May 2021 to 02nd May 2023)
Centre for Integrated Mountain Research (CIMR)
University of the Punjab, Lahore Pakistan

Associate Professor (10th March 2020 to 25th May 2021)
Department of Geography
University of the Punjab, Lahore Pakistan

Assistant Professor (06th June 2013 to 09th March 2020)
Department of Geography
University of the Punjab, Lahore Pakistan

Research officer/Lecturer (05th May 2008 to 05th June 2013)
Centre for Integrated Mountain Research
University of the Punjab, Lahore Pakistan

Research officer (12th Sep 2005 to 04th May 2008)
Centre for Integrated Mountain Research
University of the Punjab, Lahore Pakistan

EDUCATION:

Ph.D. in Earth System Sciences: (2009-2013)
**Environment, Resources and Cultural Heritage
(Physical Geography and Geomorphology)**
Department of Chemical and Geological Sciences
University of Modena and Reggio Emilia, Italy

M.Phil. Total Quality Management (TQM) (2006-2008) 1st
Institute of Quality and Technology Management
University of the Punjab, Lahore Pakistan

M.Sc. Geography (Roll of Honor) (2001-2003) 1st
Department of Geography
University of the Punjab, Lahore Pakistan

**B.A (Graduation) Geography, Political Science
(1999-2001) 1st**
Queen Mary College, Lahore Pakistan

Intermediate (Humanities) (1997-1999) 1st

Queen Mary College, Lahore, Pakistan

Secondary School (Science)

(1995-1997) 1st

P.R. Lady Griffin Girls High School, Lahore Pakistan

INTERNATIONAL CERTIFICATE COURSES:

2020 IEEE GRSS & ISPRS Young Professionals and Student Consortium Summer School (18 hours) E-Learning Training Course	(16-10-2020 to 10-12-2020)
IEEE GRSS Young Professionals Training Course SERFA 2020 + IEEE GRSS & ISPRS (08 hours) E-Learning Training Course	(04-12-2020 to 05-12-2020)
Selection of Best Suitable Sites for Water Harvesting Structures Through GIS and Remote Sensing (4 ECTS 30/30 with honor) University of Florence, Italy. E-Learning Training Course	(2016-2017)
Introductory E-Course on Climate Change E-Learning Training Course	(27 Feb, 2016)
Use of CLASlite software for deforestation and forest degradation E-Learning Training Course	(2016)
DRYMOS Course EU Timber Regulation, FSC Certification and the Role of Forests in Climate Change Mitigation"	(16th to 30th June 2014)
Holocene reconstructions of past environments and human impact University of Modena and Reggio Emilia, Italy	(Oct 2012)
Geomorphic processes: impacts, hazards and response to global change University of Modena and Reggio Emilia, Italy	(Sep 2012)
Statistics applied to environmental sciences: basic tests University of Modena and Reggio Emilia, Italy	(May-Jun 2012)
Introduction to security sector reforms E-Learning Training Course United Nations Institute of Training and Research (UNITAR)	(Jan-Mar 2012)
In field-laboratory reflectance spectroscopy University of Modena and Reggio Emilia, Italy	(Jan 2012)
DOCENT- DOCTors in ENTERprise University of Modena and Reggio Emilia, Italy	(Jun 2011)
Geometric Morphometrics University of Modena and Reggio Emilia, Italy	(May 2011)
Introduction to MATLAB University of Modena and Reggio Emilia, Italy	(Feb 2011)
Geomorphology and Principles of Remote Sensing University of Modena and Reggio Emilia, Italy	(2009- 2010)
Corso di Lingua e Cultura Italiana per Stranieri University of Modena and Reggio Emilia, Italy	(2009- 2010)
Statistics (intensive course) University of Modena and Reggio Emilia, Italy	(Jun 2010)
GIS in land management and conservation University of Modena and Reggio Emilia, Italy	(Apr 2010)

Computational Geodynamics advanced Course University of Modena and Reggio Emilia, Italy	(Mar 2010)
Geodynamics advanced Course University of Modena and Reggio Emilia, Italy	(Feb 2010)
Intensive course for young geomorphologists 7th International Conference on Geomorphology (ANZIAG), Melbourne Australia	(Jul 2009)
Website Development University of Modena and Reggio Emilia, Italy	(May 2009)
Mountain Environment and Global Change First International Post Graduate Course University of Torino, Italy	(Jul-Aug 2009)
Watershed Management Training E-Learning Training Course The Watershed Academy, USA	(Jul 2008)
The Statistical Analysis of Compositional Data IAMG Short Course TU Bergakademie Freiberg	(Jun 2007)
International Environmental Law - Basic Course E-Learning Training Course United Nations Institute of Training and Research (UNITAR)	(Feb-Apr 2007)

RESEARCH WORK AND SCIENTIFIC EXCURSIONS:

1. Ghous, M., Frassetto, A., & Siddiqui, S. (2021). *Physical Geography and Human Geography (Objective)* Idara Al-Tehreer, Urdu Bazar Lahore.
 2. Ghous, M., & Siddiqui, S. (2020). *Fundamentals of Geography*. Asian Traders, Urdu Bazar Lahore.
 3. Sharifi, A., Felegari, S., Tariq, A., & Siddiqui, S. (19 November 2021). *Forest Cover Change Detection Across Recent Three Decades in Persian Oak Forests Using Convolutional Neural Network*. Chapter 4, In Book Editor(s): Pavan Kumar, Ram Kumar Singh, Manoj Kumar, Meenu Rani, Pardeep Sharma. Climate Impacts on Sustainable Natural Resource Management. Print ISBN:9781119793373 |Online ISBN:9781119793403 |DOI:10.1002/9781119793403. © 2022 John Wiley & Sons Ltd. Available at: <https://doi.org/10.1002/9781119793403.ch4>
 4. Siddiqui, S., Shirazi, S.A., Khan, W.M. (2018). *Earth Science Education in Schools: Present Scenario and Future Prospects in Pakistan*. In Grecco, R., Almberg L. Editors (Ed.), Earth Science Education: Global Perspectives E-Book (pp. 225-236). Available at: https://www.researchgate.net/publication/329761014_Earth_Science_Education_Global_Perspectives_2018_E_Book/stats
<http://www.igeoscienced.org/wp-content/uploads/2018/12/Earth-Science-Education-Global-Perspectives-2018-E-Book.pdf>
- **One Year Research Project on “Socio-Economic and Environmental Impacts of Drought 2014 in Thar Desert Pakistan”** funded by University of the Punjab Lahore Pakistan. Year 2016-17. Principal Investigator Dr. Saima Siddiqui. **Completed and Research Article Published (Copy attached)**.
 - **Remote sensing analysis of neotectonic deformation from Drainage Network in Emilia-Romagna Apennines, northern Italy**, Ph.D (Doctoral) Thesis, 2013.

- **Identifying some management approaches to total quality management (TQM) within higher educational institutions**, M.Phil Thesis, 2008.
- **Rainwater harvesting in dry lands of Punjab (A Case Study of Cholistan and Thal Deserts)**, M.Sc Thesis, 2003.
- **Demographic Profile of Saidpur, Islamabad**, M.Sc Primary data collection survey report, 2003.
- **CASR (Centre for advanced Studies and Research) Publication**, 2006.
- **Kasur Tannery Pollution Control Project** Punjab University Lahore on 17th December 2005.
- Participated in various **field excursions** in Northern Apennines, Italy and NW Himalaya, Pakistan.

ACHIEVEMENTS:

Author of several publications: Journal articles, scientific reports and conference /papers, posters. Won several achievements/awards including:

- **HEC Approved PhD Supervisor of Geography and related disciplines.**
- **Reviewer of HEC NRPUR Research Projects.**
- Organized the **first ever Convocation of the Department of Geography** University of the Punjab in March 2020.
- **Giannino Bassetti Foundation Award, 2012** (awarded by Giannino Bassetti Foundation, Italy).
- **Young Geomorphologist Award, 2009** (awarded by the International Association of Geomorphologists, IAG/AIG in Australia).
- **PhD research scholarship from University of Modena and Reggio Emilia Italy.**
- **Roll of Honour, 2003** (first position in M.Sc. Geography)
- **Roll of Honour, 1998-1999** (Best player sports)

RESEARCH PAPERS PUBLISHED IN INTERNATIONAL JOURNALS:

1. Rana F., Siddiqui, S. (10-June-2023). **Assessing the Impact of Air Pollution on Peri-Urban Agriculture in Lahore City, Pakistan**. International Journal of Innovations in Science & Technology, 4(SPL), 54-71.
2. Rana, F., Siddiqui, S. & Haq U., Z. (6-July-2023). **Investigating the spatiotemporal distributions of NO₂, SO₂ and their association with NDVI in Lahore (Pakistan) and its adjoining region of Punjab (India)**. Journal of the Indian Society of Remote Sensing. 51, 1683-1696
3. Ghous, M., & Siddiqui, S. (13-12-2022). **GIS-based site suitability evaluation for ecotourism development in Salt Range Wetlands, Punjab-Pakistan**. Arabian Journal of Geosciences, 15(24), 1-11.
4. Ishaqzai, S. Q., Kamran, K., Siddiqui, S., Khan, N., Kousar, S., Iqbal, A., Akbar, A. (2022-11-03). **Medicinal Plants Status, Habitat Degradation Factors and Rehabilitation Possibilities in Sra Ghurgai Protected Area Takatu Mountain Range Quetta Pakistan**. Polish Journal of Environmental Studies, 31(6), 5047-5056. <https://doi.org/10.15244/pjoes/150016>
5. Tariq, A., Siddiqui, S., Sharifi, A., Shah, S. H. (24 May, 2022). **Impact of spatio-temporal land surface temperature on cropping pattern and land use and land cover changes using satellite imagery, Hafizabad District, Punjab, Province of Pakistan** - Arabian Journal of Geosciences. (ISI-JCR IF: 1.827 HEC-X- Category). DOI: <https://doi.org/10.1007/s12517-022-10238-8>
6. Kashif Kamran, Constanza Schapheer, Abid Ali, Muhammad Kamran Taj, Saima Siddiqui, Ana Karina Maldonado, Asim Iqbal, Sana Arif and Cristian Villagra (24 November, 2021). **Spatial distribution of synanthropic cockroaches found in Quetta, Pakistan and antibiotic-resistant bacteria strains found in Shelfordella lateralis (Walker, 1868) (Blattodea: Blattidae).**- Entomological Research. 51:528-532. (ISI-JCR IF: 1.358 HEC-X- Category). DOI: <https://doi.org/10.1111/1748-5967.12556>

7. Tariq, A., Shu, H., Siddiqui, S., Munir, I., Sharifi, A., Li, Q., Lu, L. (27 May, 2021). ***Spatio-temporal Analysis of Forest Fire Events in Margallah Hills, Islamabad, Pakistan Using Socio-Economic and Environmental Variables Data with Machine Learning Methods*** - Journal of Forestry Research. (ISI-JCR IF: 1.994 HEC-X- Category). DOI: <https://doi.org/10.1007/s11676-021-01354-4>
8. Tariq, A., Shu, H., Kuriqi, A., Siddiqui, S., Gagnon, A.S. Lu, L., Linh, N.T.T., Pham, Q.B. (23rd May 2021). ***Characterization of the 2014 Indus River Flood Using Hydraulic Simulations and Satellite Images*** - Remote Sensing. Vol. 13 (11), 2053, 1-16. (ISI-JCR IF: 4.509 HEC W-Category). DOI: <https://doi.org/10.3390/rs13112053>.
9. Tariq, A., Shu, H., Siddiqui, S., Mousa, B.G., Munir, I., Nasri, A., Waqas, H., Lu, L., Baqa, M.F. (10th May, 2021) ***Forest Fire Monitoring Using Spatial-Statistical and Geo-Spatial Analysis of Factors Determining Forest Fire in Margalla Hills, Islamabad, Pakistan*** - Geomatics, Natural Hazards and Risk, Vol. 12(1), 1212-1233. (ISI-JCR IF: 3.923 HEC W-Category). DOI: 10.1080/19475705.2021.1920477
10. Zainab, N., Tariq, A., Siddiqui, S. (25th April, 2021). ***Development of Web Based GIS Alert System for Informing Environmental Risk of Dengue Infections in Major Cities of Pakistan*** - Geosfera Indonesia- Vol. 6 (1), 77-95. (HEC Recognized- WoS indexed- Y Category). ISSN: 2598-9723, 2614-8528
11. Tariq, A., Shu, H., Siddiqui, S., Imran, M., Farhan, M. (1st April, 2021). ***Monitoring Land Use and Land Cover Changes (LULCC) Using Geospatial Techniques, A Case Study Of Fateh Jang, Attock, Pakistan*** - Geography, Environment, Sustainability- Accepted. Vol. 14 (1), 41-52 (HEC HJRS Recognized- Scopus indexed- Y Category). 2542-1565,2071-9388
12. Kamran, K., Ali, A., Villagra, C., Siddiqui, S., Alouffi A.S., Iqbal, A. (31 January 2021). ***A cross-sectional study of hard ticks (acar: ixodidae) on horse farms to assess the risk factors associated with tick-borne diseases, Pakistan*** - Zoonoses and Public Health- Vol. 68, 1-16. (ISI-JCR IF: 2.271).
13. Roshan, S., Iqbal, A., Siddiqui, S., Samad, A., Kamran, K. (2021). ***Ticks Prevalence and Possible Risk Factors Assessment on Domestic Dogs in Quetta District Balochistan, Pakistan*** - Egyptian Journal of Veterinary Science - Vol. 52 (1), 87-94. (HEC HJRS Recognized- WoS indexed- Y Category).
14. Aziz, S., Kakar, S.D., Siddiqui, S., Kamran, K. (30 August 2020). ***Prevalence of Intestinal Helminthic Parasites among the Children of the Local Population of Quetta District, Balochistan, Pakistan*** - International Journal of Biosciences - Vol. 17 (2), 179-184. (HEC Recognized-WoS and ISI indexed- Y Category).
15. Kamran, K., Villagra, C.A., Iqbal, A., Kakar, A., Schapheer, C., Taj, M.K., Ali, A. and Siddiqui, S. (22 February, 2020 online and January 2021 Print). ***29-kDa: A Potential Candidate for Anti-Tick Vaccine Antigen Source as Immunogenic and Stage Reactive Targeting Hard-Bodied Hyalomma Ticks(Ixodidae)*** - Indian Journal of Animal Research - - Vol. 55 (1), 71-77. DOI: 10.18805/ijar.B-1191 | Article Id: B-1191 (ISI-JCR IF: 0.437).
16. Haq, F., Waseem, L.A., Ullah, I., Siddiqui, S., Rahman, F., Tabassum, I. (October 2018) - ***Indigenous land tenure system in the Hindu-Raj Mountains, Pakistan: development, transformation and implications*** - Journal of Biodiversity and Environmental Sciences - Vol. 13 (4), 73-87. (HEC Recognized-WoS and ISI indexed- Y Category).
17. Haq, F., Waseem, L.A., Rahman, F., Ullah, I., Tabassum, I., Siddiqui, S. (October 2018) - ***Environmental Changes in the Hindu Raj Mountains, Pakistan*** - Environment and Natural Resources Journal - Vol. 17 (1), 63-77. (HEC Recognized- Scopus, WoS and ISI indexed- Y Category).
18. Siddiqui, R., Siddiqui, S., Javid, K. (September 2018) - ***Calculation and Mapping of Rainwater Harvesting Potential Through GIS To Conserve Water From The Roads Runoff of Lahore,***

Pakistan _ Journal of Biodiversity and Environmental Sciences – Vol. 13 (3), 89-97. (HEC Recognized- WoS and ISI indexed- Y Category).

19. Anwar, N., Siddiqui, S. (September 2018) - **Loss of Arable Land due to Rapid Urbanization: A Remote Sensing based Study on Gujrat District, Pakistan.** – Journal of Biodiversity and Environmental Sciences – Vol. 13 (3), 38-47. (HEC Recognized- WoS and ISI indexed- Y Category).
20. Siddiqui S., Castaldini D., Soldati M. (January 2017) - **DEM-based drainage network analysis using steepness and Hack SL indices to identify areas of differential uplift in Emilia-Romagna Apennines, northern Italy-** Arabian Journal of Geosciences – Vol. 10 (3), 2-23 ISSN 1866-7511, DOI: 10.1007/s12517-016-2795-x. **(ISI-JCR Impact Factor: 1.327).**
21. Siddiqui S., Soldati M., Castaldini D. (March 2015) - **Appraisal of active deformation from drainage network and faults: inferences from non-linear analysis** - Earth Science Informatics – Vol. 8 (1), 233-246, ISSN 1865-0473, DOI 10.1007/s12145-014-0156-4. **(ISI-JCR Impact Factor: 1.68).**
22. Siddiqui S., Soldati M. (May 2014) - **Appraisal of active tectonics using DEM-based hypsometric integral and trend surface analysis in Emilia-Romagna Apennines, northern Italy** - Turkish Journal of Earth Sciences – Vol. 23 (3), 277-292 ISSN: 1300-0985. **(ISI-JCR Impact Factor: 1.362).**
23. Siddiqui S. (March 2014) **Appraisal of Active Deformation Using DEM-based Morphometric Indices Analysis in Emilia-Romagna Apennines, northern Italy** - Geodynamics Research International Bulletin – Vol. 1 (3), 34-42 ISSN: 2345-4997.

RESEARCH PAPERS PUBLISHED IN NATIONAL JOURNALS:

24. Farasat, A., Siddiqui, S., Ghous, M., Shafqat, A., Hanif, A., Sohail, M. Munir, S., Jabber M. (December-2023). **Exploring the Paradox of Population Growth and Food Resources in Punjab – Pakistan: Reassessment in the Light of Malthusian Theory**, 75(4), 741-749.
25. Khan S.I., Siddiqui, S., Ghous, M. (December-2023). **Forestry Effect on Dissolved Organic Carbon in Waters of Peatlands of Deosei National Park, Pakistan.** Pakistan Journal of Science, 75(4), 750-756.
26. Akram S., Siddiqui, S. (December-2023). **Flood Hazard Modelling Using Hydraulic Simulation Model and Satellite Images: A Case Study of Chaj Doab, Punjab, Pakistan.** Pakistan Journal of Science, 75(4), 634-644.
27. Ghulam R., Siddiqui, S. (20-June-2023). **Assessing the Vegetation Degradation Dynamics in Salt Mine Areas of District Chakwal, Pakistan.** Pakistan Journal of Humanities and Social Sciences, 11(2), 1639-1650.
28. Ghous, M., Siddiqui, S. (8, June 2022) - **Assessment of Willingness to Pay for Sustainable Ecotourism Development in the Salt Range Wetlands, Punjab Pakistan** – International Journal of Economic and Environmental Geology - Vol. 13 (2), 47-51. (HEC Recognized in Y Category).
29. Safi, M. W. A., Siddiqui, S., Rehman, N., Tariq, A. (October, 2020) - **Impact of Climate Change on Land use/Land cover of Chakwal District**– International Journal of Economic and Environmental Geology - Vol. 11 (2), 65-68. (HEC Recognized in Y Category).
30. Haider, S.W., Tariq, M. Siddiqui, S. (October, 2020) - **Major, Minor and Trace Elements Existence in Surface Sediments from Gwadar to Jiwani Coastal Areas of Pakistan**– International Journal of Economic and Environmental Geology - Vol. 11 (2), 37-45. (HEC Recognized in Y Category).
31. Safi, M. W. A., Siddiqui, S., Tariq, A., Rehman, N., Haider, S.W. (October, 2020) - **GIS Based Universal Soil Erosion Estimation in District Chakwal Punjab, Pakistan**– International Journal of Economic and Environmental Geology - Vol. 11 (2), 30-36. (HEC Recognized in Y Category).
32. Hussain, S., Liaqut, A., Siddiqui, S., Younes, I., Shafiq, M. (October, 2020) - **Landuse and Community-based Assessment of 2014 Flood Damages in Tehsil Phalia, Punjab** –

- International Journal of Economic and Environmental Geology - Vol. 11 (2), 55-60. (HEC Recognized in Y Category).
33. Siddiqui, R., Siddiqui, S., Javid, K., Akram, M.A.N. (June, 2020) - ***Estimation of Rainwater Harvesting Potential and its Utility in the Educational Institutes of Lahore using GIS Techniques*** – Pakistan Geographical Review - Vol. 75 (1), 01-09. (HEC Recognized in Y Category).
 34. Mustafa, G., Ali, N., Siddiqui, S., Shah, Y. F. (June, 2020) - ***Historical Analysis of Pakistan's relations with United States of America under Obama's Administration*** – Journal of Historical Studies - Vol. 6 (1), 219-242. (HEC Recognized in Y Category).
 35. Nazli, S., Siddiqui, S., Rehman, N., (July, 2020) - ***Assessing the Impact of Eucalyptus Plantation on Groundwater Availability in Pakistan*** – International Journal of Economic and Environmental Geology - Vol. 11 (1), 59-64. (HEC Recognized in Y Category).
 36. Owais, M., Siddiqui, S. (October, 2019) - ***Appraisal of Deforestation and Forest Degradation in District Swat, Pakistan***– International Journal of Economic and Environmental Geology - Vol. 10 (3), 7-15. (HEC Recognized in Y Category).
 37. Siddiqui, S. Javid K. (September 2018) - ***Spatio-temporal Analysis of Aridity over Punjab Province of Pakistan Using Remote Sensing Techniques*** – International Journal of Economic and Environmental Geology - Vol. 9 (2), 1-10. (HEC Recognized in Y Category).
 38. Siddiqui, R. Siddiqui, S. (September 2018) - ***Assessing the Rooftop Rainwater Harvesting Potential in an Urban Residential Area of Lahore Pakistan***– International Journal of Economic and Environmental Geology - Vol. 9 (2), 11-19. (HEC Recognized in Y Category).
 39. Akram S., Siddiqui S., (June 2018) - ***Remote Sensing Analysis of Urban Expansion and Loss of Agricultural Land in Tehsil Multan City Pakistan.*** – Pakistan Geographical Review - Vol. 73 (1), 52-62. (HEC Recognized in Y Category).
 40. Siddiqui S., Safi M. W. A. (December 2017) - ***Assessing the Socio-Economic and Environmental Impacts of 2014 Drought in District Tharparkar, Sindh-Pakistan***– International Journal of Economic and Environmental Geology - Vol. 8 (4), 8-15. (HEC Recognized in Y Category).
 41. Siddiqui S., (September 2017) - ***River Profile Analysis to Identify Active Tectonic Imprints in Rossenna Watershed, Northern Apennines, Italy*** – International Journal of Economic and Environmental Geology - Vol. 8 (3), 9-20. (HEC Recognized in Y Category).
 42. Khan, W.M. Siddiqui, S. (July 2017) - ***Estimation of Greenhouse Gas Emissions by Household Energy Consumption: A Case Study of Lahore, Pakistan*** – Pakistan Journal of Meteorology - Vol. 14 (27), 65-83. (HEC Recognized in X Category).
 43. Siddiqui S., Akram, M. A. N., (June 2017) - ***Spatial Analysis of Thalassemia Patients Prevalence in District Gujrat, Pakistan in 2015-2016.*** – Pakistan Geographical Review - Vol. 72 (1), 39-52. (HEC Recognized in Y Category).
 44. Siddiqui S., Mehfooz B., (June 2017) - ***Influence of Housing Quality on Public Health in Lahore, Pakistan*** - Proceedings of the Pakistan Academy of Sciences: B. Life and Environmental Sciences 54 (3), 237–257. (HEC Recognized in X Category).
 45. Siddiqui S., Shirazi S.A., Ali A. (December 2016) - ***A Floristic Analysis of Selected Parks in Lahore Pakistan*** - Journal of the Punjab University Historical Society – Vol. 29 (2), 182-195. (HEC Recognized in Y Category).
 46. Siddiqui S., Owais S. M., (December 2015) - ***Causes of Gender Disparity in Access to School Education in District Malakand, Pakistan.*** – Pakistan Geographical Review - Vol. 70 (2), 26-44. (HEC Recognized in Y Category).

NATIONAL AND INTERNATIONAL CONFERENCE PAPER / POSTER PRESENTATION AND/OR PARTICIPATION:

Participated/Presented in more than 100 National and International Seminars, Workshops and Conferences related to Geography Geology, Earth and Environmental Sciences, and GIS/Remote Sensing Application in Geo-environmental Conservation, Sustainable Development and Disaster Management.

SOFTWARE OPERATING EXPERIENCE:

- Arc Map 9 and above, Google Earth Engine, River tools, Erdas Imagine, Envi, Geomatica, Map Viewer 4
- Origin Lab, MINITAB, SPSS, MATLAB
- O/S (Windows 98/2000/NT/XP/Vista/7/8/10)
- MS Office (Word, Excel, Power Point, FrontPage, Outlook)
- Database (MS Access)
- Programming (HTML, C++ basic)
- Graphics (Adobe Photoshop, Coral Draw, Macromedia Flash, Macromedia Dreamweaver)
- Global Communications (Internet, Email, E-Learning, Web conferencing, Webinars)

AREAS OF INTEREST:

- Mountain Conservation and Watershed Management.
- Physical Geography, Geomorphology.
- Application of Remote Sensing and GIS techniques in Landscape Processes and Landforms Analysis.
- Quantitative analyses of topography using DEMs and Remote Sensing imagery.
- Tectonic geomorphology and active tectonics, with applications to the Italian Apennines and NW Himalayas.
- Natural hazards and disaster risk management.
- Integrated water resource management.
- Integrated land resource management.
- Sustainable development.
- Health, safety and environmental management.
- Total Quality Management.
- Promotion of science and technology.

PROFESSIONAL MEMBERSHIPS:

- Member of International Society of Tropical Foresters (ISTF)
- Member of International Association for Promoting Geoethics (IAPG)
- Member of International Journal of Economic and Environmental Geology Editorial Board
- Member of The Society for Urban Ecology (SURE)
- Member of International Geoscience Education Organization (IGEO) Council
- Member of International Young Earth Scientist (YES) Network
- Member of Asia Pacific Mountain Network (APMN)
- Member of Asian Population Association (APA)
- Member of American Society for Quality (ASQ)
- Member of Past Global Changes (PAGES)
- Member of Asian Water Management Network (ASIAN WATMANET), Kathmandu, Nepal
- Member of Mountain Forum Secretariats ICIMOD Kathmandu, Nepal
- Member of Society for Conservation Biology (SCB)
- Member of All Pakistan Geographical Association (PGA), University of the Punjab

- Member Purchase Committee, Department of Geography University of the Punjab Lahore
- Member Center for Integrated Mountain Research PU. Board of Studies (BOS)
- Member Board of Studies (BOS) and Board of Faculty (BOF) of CIMR
- Member Academic Council, University of the Punjab
- Member Departmental Doctoral Program Committee of CIMR
- Member Departmental Doctoral Program Committee of Geography Department
- Member ORIC Punjab University Lahore
- Member various committees constituted at University level as Director QEC

LANGUAGE SKILLS:

- **English** very good (Academic and Official Language), **Italian** (Basic), **Urdu** excellent (National language), **Punjabi** excellent (mother tongue), **Arabic** (Basic), **Persian** (Basic), **Hindi** (Good)

RESEARCH SUPERVISION

Completed 31 M.Phil. Research Projects in the Subjects of Geography, Environment and Geo-environmental Conservation and Sustainable Development at Department of Geography and Centre for Integrated Mountain Research, University of the Punjab Lahore. Four completed, 3 Submitted and 2 ongoing Ph.D. research Dissertations as Supervisor.