

DR. SAIMA SIDDIQUI

*Ph.D. in Earth System Sciences:
Environment, Resources and Cultural Heritage
(Physical Geography and Geomorphology)*



CURRICULUM VITAE

PROFESSIONAL POSITION:

- Associate Professor (BPS-20)** (10th March 2020 to date)
Department of Geography
University of the Punjab, Lahore Pakistan
- Assistant Professor (BPS-19)** (06th June 2013 to 09th March 2020)
Department of Geography
University of the Punjab, Lahore Pakistan
- Email:** saimagct@gmail.com, saima.geog@pu.edu.pk
- Web:** <http://pu.edu.pk/faculty/description/1515/Dr-Saima-Siddiqui.html>
- Research officer/Lecturer (BPS-18)** (05th May 2008 to 05th June 2013)
Centre for Integrated Mountain Research
University of the Punjab, Lahore Pakistan
- Research officer (BPS-17)** (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: Environment, Resources and Cultural Heritage (Physical Geography and Geomorphology)** (2009-2013) 1st
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 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:

- Four-Week Online Faculty Development Program** (03-02-2021 to 26-02-2021)
Quality Enhancement Cell, Punjab University, Lahore

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 (Jul 2009)
7th International Conference on Geomorphology
(ANZIAG), Melbourne Australia

Website Development (May 2009)
University of Modena and Reggio Emilia, Italy

Mountain Environment and Global Change (Jul-Aug 2009)
First International Post Graduate Course
University of Torino, Italy

Watershed Management Training (Jul 2008)
E-Learning Training Course
The Watershed Academy, USA

The Statistical Analysis of Compositional Data (Jun 2007)
IAMG Short Course
TU Bergakademie Freiberg

International Environmental Law - Basic Course (Feb-Apr 2007)
E-Learning Training Course
United Nations Institute of Training and Research (UNITAR)

NATIONAL COURSES/CERTIFICATES:

Arc GIS 9.0 (Sep 2007)
Department of Geography
University of the Punjab, Lahore, Pakistan

ISO 9000:2000 Series Auditor/Lead Auditor (May 2007)
Bureau Veritas Quality International (BVQI)
Lahore, Pakistan

Environmental Monitoring (May-Jun 2006)
Centre for Integrated Mountain Research (CIMR), PU Lahore
Pakistan Space and Upper Atmospheric
Research Commission (SUPARCO), Lahore

Environmental Issues in Water Sector (Dec 2005)
Centre for Integrated Mountain Research (CIMR), PU Lahore
Federal Environmental Management Unit (FEMU) Lahore

B.Ed. Allama Iqbal Open University (2005)
Pakistan

Diploma in Software Engineering in Computer Science (2003-2004)
Govt. College of Technology, Railway Road Lahore

RESERCH WORK AND SCIENTIFIC EXCURSIONS:

1. Siddiqui, S., Shirazi, S.A., Khan, W.M. (2018). *Earth Science Education in Schools: Present Scenario and Future Prospects in Pakistan*. In Grecco, R., Almborg 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.igeosci.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.
- Field excursion to **Garda Lake** Italy on 4th May 2009.
- Field excursion to **Po Plain** Italy on 18th May 2009.
- Field excursion to **Apennines** Italy on 4th June 2009.
- 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 awards including:

- Entitled as **HEC Approved PhD Supervisor of Geography and related disciplines**.
- 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. Tariq, A., Shu, H., Siddiqui, S., Munir, I., Sharifi, A., Li, Q., Lu, L. (27 May, 2021). **Spatio-temporal Analysis of Forest Fire Event 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>
2. 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>.
3. 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](https://doi.org/10.1080/19475705.2021.1920477)
4. 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
5. 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
6. Kamran, K., Ali, A., Villagra, C., Siddiqui, S., Alouffi A.S., Iqbal, A. (31 January 2021). **A cross-sectional study of hard ticks (acari: 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).
 7. 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).
 8. 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).
 9. 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).
 10. 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).
 11. 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).
 12. 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).
 13. 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).
 14. 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).
 15. 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).
 16. 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).

17. 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:

18. 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).
19. 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).
20. 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).
21. 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).
22. 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).
23. 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).
24. 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).
25. 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).
26. 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).
27. 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).
28. 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).
29. 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).
30. 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).

31. 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).
32. 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).
33. 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).
34. 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).
35. 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).

INTERNATIONAL CONFERENCE PAPER / POSTER PRESENTATION and/or PARTICIPATION:

- ***International Conference (Virtual) 2021 on Geospatial Technology For Sustainable Development.***, Department of Studies in Geography, University of Mysore, Vijnana Bhavan, Manasagangothri 570006, India. 5th to 6th February 2021.
- International Conference: ***2020 International Graduate Workshop on Geoinformatics (IGWG).*** At: Wuhan University, Wuhan, "***Hotspot Analysis and relationship of Crime to Heat and Aggression in Saddar area, Lahore, Pakistan***". 16th-18th December 2020.
- ***7th Annual Virtual International Convention on "Sustainability in Current Scenario: Challenges and Solutions", November, 05-07, 2020.*** Suresh Gyan Vihar University, India.
- ***International Symposium: "Human Rights, the Sustainable Development Goals and the Law"*** Friday, May 15, 2020. The Centre for International Sustainable Development Law (CISDL)
- ***International Scientific Symposium: Addressing Water Variability and Scarcity - The Role of Agricultural Research.*** July 17, 2019. The Environment and Production Technology Division, International Food Policy Research Division and ILSI Research Foundation.
- ***1st TeRRIFICA Online Conference "Co-creation and Climate Action. How people can have an impact on climate adaptation and mitigation?"*** On May 22nd 2019 from 10am to 2pm (CEST/Brussels time).
- ***The 2012 Emilia earthquake,*** Consultancy Meeting of Working Group 1.6 "Paleoseismology and ESI intensity scale" October 2-4, 2012. Modena, Italy.
- ***Regional Geological Cartography and Information Systems, Sustainable Geo-Management,*** 7th EUREGEO European Congress, June 12-15, 2012. Fiera District - viale della Fiera, 8 - Terza Torre, Bologna, Italy.
- ***Towards the understanding of science communication and its potential role to bring prosperity in the rural and agro-based community of Pakistan,*** in Public Communication of Science and Technology (PCST) conference, April 18-20, 2012. Florence, Italy.
- ***Earth Science Renaissance: science, environment and art,*** International Earth Science Olympiad (IESO), September 5-14, 2011. Modena, Italy.
- ***Active tectonics from hypsometric integral analysis using GIS based local indicators of spatial autocorrelation in Afghanistan-Pakistan,*** in Our Complex World: Representation, Analysis and Modeling, ICA-ISPRS Joint Workshops, August 10-12, 2011, Simon Fraser University, Burnaby, British Columbia, Canada.
- ***Geomorphic Analysis of Active Deformation from DEM based Drainage Network in Lamone Catchment Emilia Romagna Apennines (N. Italy)*** in XXV International Union of Geodesy and Geophysics (IUGG) General Assembly, June 28 to July 7, 2011. Melbourne, Australia.

- ***Geomorphic Indices Analysis to Monitor Surface Deformation using Digital Elevation Model in Secchia River Basin (N. Apennines)***, in XXV International Union of Geodesy and Geophysics (IUGG) General Assembly, June 28 to July 7, 2011. Melbourne, Australia.
- ***Spectral Analysis of Hyperion, ALI, SPOT and ASTER Data to Characterize Geological Features in Northern Pakistan***, ESA Living Planet Symposium, June 28 to July 2, 2010. Bergen, Norway.
- ***Remote Sensing Analysis of Active Deformation Using River Networks***, in RSPSoc Annual Conference, September 8-11, 2009. Leicester, UK.
- ***Evaluating the potential of EO-1/ALI, Hyperion and ASTER data to characterize post earthquake effects using multivariate alteration detection technique***, in RSPSoc Annual Conference, September 8-11, 2009. Leicester, UK.
- ***Appraisal of spatial patterns of river networks to characterize the vulnerability of surface deformation***, in RSPSoc Annual Conference, September 8-11, 2009. Leicester, UK.
- ***Remote Sensing Analysis of Neotectonic Development from Drainage Network in the Northern Apennines (Italy): Preliminary Results***, in III Convegno Nazionale AIGeo, September 13-18, 2009. Modena, Italy.
- ***Monitoring Surface Deformation by Non-Linear Analysis of Drainage Network in Hindukush - Pamir Region***, in III Convegno Nazionale AIGeo, September 13-18, 2009. Modena, Italy.
- ***Tectonic Forcing, Surface Uplift and Landscape Responses in Hindukush-Pamir-Karakorum***, in 7th International Conference on Geomorphology (ANZIAG), July 6-11, 2009. Melbourne, Australia.
- ***New Trends in Science and Technology Education***, International Conference organized by University of Modena and Reggio Emilia in collaboration with Professional Associations of AIF, AITER, ANIMAT, ANISN e DD-SCI, April 21-23, 2009. Melbourne, Australia.

NATIONAL CONFERENCE PAPER / POSTER PRESENTATION and/or PARTICIPATION:

- ***16th All Pakistan Geographical Conference, 11-13th March 2021***. Crime Hotspot Analyses and its Relation to the Weather Conditions in Lahore.
- ***Neglected Environmental Issues Related to Water Resources in National Policy 2018: A Way Forward***. One day Symposium on National Water Policy Pakistan Review & Analysis organized by Abdus Salam Research Forum, Nusrat Jahan College, Rabwah Pakistan on Saturday, December 22, 2018.
- ***Calculation and Mapping of Rainwater Harvesting Potential through GIS to Conserve Water from the Roads Runoff of Lahore, Pakistan***. 1st International Conference on Natural Sciences from December 4-5, 2018 Conference from 21-23 April 2018 organized by Faculty of Science , Government Postgraduate College for Women, Gulberg, Lahore, Pakistan.
- ***Remote Sensing Based Assessment of Aridity over Punjab, Pakistan***. Three days 15th All Pakistan Geographical Conference from 21-23 April 2018 organized by Department of Geography University of Karachi in Collaboration with HEC Pakistan.
- ***Estimating Aerosol Optical Depth (AOD) Seasonal Variability in Pakistan by Using MISR***. Two day 2nd international conference on environment and sustainable development from 13-14 March 2018 organized by Sustainable Development Study Centre (SDSC) Government College University, Lahore.
- Participated in one day Conference on ***“Peace, Harmony and Nationalism”*** organized by University of the Punjab in Collaboration with the Centre for Health and Gender Equality (CHANGE) on 22 March 2018 in the Faisal Auditorium, University of the Punjab, Lahore.
- ***Monitoring and Mapping of Deforestation and Forest Degradation in Swat Pakistan***. Three day International Conference on Global Environmental Change and The Role of Geographers from 25-27 July 2017 jointly organized by Department of Geography, University of Peshawar and University of Gujrat.
- ***Monitoring and Detection of Deforestation and Forest Degradation in Swat Pakistan***. The First International Conference on Emerging Trends in Earth and Environmental Sciences from

March 9-10, 2017 organized by College of Earth and Environmental Sciences, University of the Punjab, Quaid-e-Azam Campus Lahore-54590 Pakistan.

- Participation in 2-day **6th Invention to Innovation Summit 2017** on Thursday, March 08-09, 2017 organized by Punjab University Office of Research, Innovation and Commercialization (ORIC) in University of the Punjab, Quaid-e-Azam Campus Lahore-54590 Pakistan.
- Two day International Conference on **Kashmir in Focus** from 21-22 February, 2017 organized by Pakistan Study Center, University of the Punjab, Quaid-e-Azam Campus Lahore-54590 Pakistan.
- **Mountain Conservation and Sustainable Management with special reference to Forestry** organized by Centre for Integrated Mountain Research (CIMR) at auditorium of Institute of Bio Chemistry and Bio Technology on 12 June 2007.
- **Role of Rainwater Harvesting in Reducing Rural Poverty in Dry lands of Punjab" (A Case Study of Cholistan and Thal Deserts)**, in 11th All Pakistan Geographical Conference, December 21-24, 2003. Lahore, Pakistan.
- **Socio-economic Dimensions of Poverty in FATA with special reference to South Waziristan**, 11th All Pakistan Geographical Conference, December 21-24, 2003. Lahore, Pakistan.

INTERNATIONAL SEMINARS/WEBINARS:

- **Forest data for climate action: the importance of legal and institutional frameworks.** On 17 March 2021 (Webinar).
- **Turning forest restoration into a sustainable business.** On 18 February 2021 (Webinar).
- **COVID-19 and Floods in South and Southeast Asia.** On Dec 8, 2020 2:30 PM - 3:30 PM PKT (Webinar).
- **Introduction to NASA's "Black Marble" Night Lights Data.** On December 3, 2020 (Advanced Webinar/Training).
- **Coastal Zone Management of Flood Water Agriculture.** On Wednesday, 25 November 2020 (Webinar).
- **Building more sustainably with wood.** On 23 November, 2020, 14:00 – 18:00 (Webinar).
- **Remote Sensing for land degradation analysis and sustainable management of agroforestry systems.** On Thu, Nov 12, 2020 8:00 PM - 9:30 PM PKT (Webinar).
- **Remote Sensing for Mangroves in Support of the UN Sustainable Development Goals.** On Thu, Nov 5, 2020 8:00 PM - 9:30 PM PKT (Webinar).
- **Pandemic Recovery, the Sustainable Development Goals and the Law".** On Wednesday 4 November 2020 (Webinar).
- **River basins and energy systems - what synergies are possible and how can they be discovered?** On Tuesday 3rd November, 2020, 3pm (GMT). (Webinar).
- **Strengthening Research Planning using Elsevier Tools-Scopus, Science Direct & Mendeley.** On Thursday, October 22nd 2020, from 11:00AM to 1:00 PM. Organised by ELSEVIER (Webinar).
- **The Importance of Engaging Young People in the Dialogue on Water and Human Rights.** 7th October 2020, 16:00h-17:30h CET PKT (Webinar).
- **Ensuring the Integrity of Forest Carbon Offsets: the Role of Verification.** On October 7, 2020 (Webinar).
- **Space data for SDG Monitoring and Evaluation.** On Wednesday, 16 September 2020 10:00-11:30am (Webinar).
- **Remote Sensing of Coastal Ecosystems.** On Tue, Aug 25, 2020 8:00 PM - 9:00 PM PKT (Webinar).
- **Journal Hosting in Scopus.** On Aug 25, 2020 11:30 AM Mumbai, Kolkata, New Delhi (Webinar).
- **Journal Indexing in Scopus.** On 25th August 2020 (Webinar).
- **Scaling up Financing for Clean Energy, Sustainable Landscapes, and Climate Adaptation.** August 20, 2020 at 9:00 AM (Webinar).

- ***Scaling up Financing for Clean Energy, Sustainable Landscapes, and Climate Adaptation.*** Thursday, August 6, 2020 9:00 AM EST (Webinar).
- ***Serving Society with Space Data.*** On Wednesday, 22 July 2020, 10:00-11:30am. organised by the Space Enabled Research Group (Massachusetts Institute of Technology) and Secure World Foundation (Webinar).
- ***'Exploring the role of trees in large-scale carbon dioxide removal'.*** On Jul 20, 2020 12:00 PM (Webinar).
- ***Increasing the use of spatial data to monitor and report on biodiversity.*** On 23 June 2020 (Webinar).
- ***Exploring Liveability in Bangladesh's Regional Cities.*** On Tuesday 16 June 2020, from 10:00-11:30 (Webinar).
- ***Webinar on employment in mining during COVID-19.*** On Wednesday, June 10, 2020 (Webinar).
- ***Align yourself to the publishing process.*** On Wednesday, May 20th, 2020 11 AM to 02:10 PM. Organised by Higher Education Commission of Pakistan in collaboration with Elsevier (Webinar).
- ***Integrated Water Resources Management in the Rural-Urban Transition of Mozambique.*** On 24th April 2020 (Webinar).
- ***Satellite Remote Sensing for Agricultural Applications.*** On April 14, 21, 28 & May 5, 2020 (Advanced Webinar/Training).
- ***Using the UN Biodiversity Lab to Support National Conservation and Sustainable Development Goals.*** On Tue, Mar 24, 2020 6:00 PM - 7:30 PM PKT (Webinar).
- ***How can digital technologies help reduce inequalities in water security?*** On Monday 20 January 2020 at 10:30 CET (1h00 duration) (Webinar).
- ***Making Gender-responsive Green Growth Happen.*** On Wed, Dec 11, 2019 7:00 PM - 8:30 PM PKT (Webinar).
- ***SAR for Disasters and Hydrological Applications.*** On December 3-5, 2019 (Advanced Webinar/Training).
- ***New Sensor Highlight: ECOSTRESS.*** On Wed, Nov 20, 2019 10:00 PM - 11:00 PM PKT (Webinar).
- ***Water productivity, the yield gap and nutrition: the case of Ethiopia.*** On October 16, 2019 from 3 to 4 p.m. (Webinar).
- ***Bringing Sustainable Development Considerations to Renewable Energy Decision-Making.*** On Thu, Oct 3, 2019 2:30 PM - 3:30 PM PKT (Webinar).
- ***Water and Climate: "The Impact of Climate Change on Water Resources.*** On UN Global Impact Network Brazil. 29-09-2019. 2:00-4:00ss pm. (Webinar). ***Water is Climate: The impact of climate change in the water resources.*** On Thu, Sep 26, 2019 (Webinar).
- ***Remote Sensing for Freshwater Habitats.*** On Tuesday, 17-09-2019, 7:00 PM - 8:00 PM PKT (Webinar).
- ***Sanitation and Health.*** On 05-09-2019, co-organised by the International Water Association (IWA) and the World Health Organisation (WHO). (Webinar).
- ***SAR for Landcover Applications.*** On August 28 & September 4, 2019 (Advanced Webinar/Training).
- ***Integrating Remote Sensing into Water Quality Monitoring Program.*** On Wednesday June 19 2019 (Webinar).
- ***Investigating Time Series of Satellite Imagery.*** On April 15-17, 2019 (Advanced Webinar/Training).
- ***High Resolution NO2 Monitoring From Space with TROPOMI.*** On May 28 – June 3, 2019 (Advanced Webinar/Training).
- ***Using Earth Observations to Monitor Water Budgets for River Basin Management.*** On March 13 – April 3, 2019 (Advanced Webinar/Training).

- **Remote Sensing for Conservation & Biodiversity.** On January 22-24, 2019 (Advanced Webinar/Training).
- **Accessibility and Inclusion in Protected Areas.** On 2018-10-11, Time: 14:00 Asia/Karachi. (Webinar).
- **Assessing and Reducing the Environmental Effects of Rural Road Construction, Improvement, and Use in Developing Countries.** On Thursday, September 20, 2018 10-11 AM (EDT) / 2-3 PM (GMT) / 9-10 PM (ICT). (Webinar).
- **Natural Health Centres.** On 2018-09-05, Time: 17:30 Asia/Karachi (Webinar).
- **Managing data in a large-scale climate modelling project.** On Tuesday, July 31, 2018 h. 3.00 - 3.50 pm CEST (Webinar).
- **Nature-based solutions (NBS) for agricultural water management and food security.** On 28th June 2018 h. 14:00 – 15:30 CEST (UTC +2). (Webinar).
- **Antarctic climate variability over the last 2000 years.** On Tuesday, June 26, 2018 h. 12.30 - 1.20 pm CEST. (Webinar).
- **Managing flood risks in semi-arid data scarce regions.** On June 7th | from 11:45 to 12.45 CEST. (Webinar).
- **Practical ways of financing to reduce corruption in the rural water sector.** On Tuesday, Apr 03, 2018 h.2.20 pm. (Webinar).
- **Water Management: Innovative Ways to Assess Precipitation Spatial Distribution.** On Tuesday, May 29, 2018 h. 12.30 - 1.20 pm CEST. (Webinar).
- **Resource Watch – Monitoring the Planet’s Pulse.** On Wed, Jun 20, 2018 6:00 PM - 7:00 PM PKT. (Webinar).
- **Solutions from European Protected Areas.** On 2018-05-24, Time: 11:30 Europe/Berlin. (Webinar).
- **The Three "E"s to Success: Employees, Education and Engagement.** On Wed, Apr 25, 2018 10:00 PM - 11:00 PM PKT. (Webinar).
- **Strengthening Collaboration in the Era of Sustainable Development Goals: A Practitioner's Session with the Dialogic Change Model.** On 24th Apr 2018 at 05:00 pm. (Webinar).
- **Blue Growth: science, society and innovation. A focus on the Mediterranean and Black Sea.** On Tue, Mar 27, 2018 3:30 PM - 4:30 PM PKT (Webinar).
- **Circularity in the Built Environment.** On Wed, Mar 28, 2018 5:00 PM - 6:00 PM PKT (Webinar).
- **Gender-Responsive NAP Processes.** On Thu, Mar 22, 2018 7:00 PM - 8:00 PM PKT (Webinar).
- **Trees, Cities, and Human Health: A Webinar to Celebrate the International Day of Forests.** Featuring: Dr. Kathleen Wolf. On March 21, 2018 at 3:00 PM ET/ 12:00 PM PT (Webinar).
- **Environment in International Cooperation - Ambiente e Cooperazione Internazionale.** On Mon, Feb 19, 2018 5:00 PM - 6:00 PM PKT (Webinar).
- **Climate Change and Water Scarcity.** By the rector of IHE Delft Institute for Water Education Prof. Eddy Moors on 14 February 2018 at 11:45 CET (Webinar).
- **Handpump Functionality Monitoring - Getting It Right Can Help Ensure Sustainability.** Wednesday, 14 February from 9:00 to 10:00 EST (New York time) (Webinar).
- **Mangrove Forest Restoration and Management: Social & Governance Dimensions** Thursday, February 15, 2018 9:00-10:30am EST. (Webinar).
- **Accuracy Assessment of a Land Cover Classification.** On Feb 13 – Feb 20, 2018 (Advanced Webinar/Training).
- **Interdisciplinary research for sustainable development is on** Wednesday, 31 January 2018 from 12:00 to 12:30 (GMT). (Webinar).
- **Data Analysis Tools for High Resolution Air Quality Satellite Datasets.** On Jan 17 – Jan 22, 2018 (Advanced Webinar/Training).

- ***How Conservation Planning Can Inform Key Decisions for Advancing and Implementing NBSAPs 26 April 2017***, from 8:00 - 9:30 am. (Webinar).
- ***UNEP-DHI S2S Webinar #2. Water quality and marine pollution: Challenges, solutions and experiences"***. Thu, May 11, 2017 6:00 PM - 7:00 PM PKT. (Webinar).
- ***UNEP-DHI FD Webinar #4: Water Safety Plans – a risk management approach from catchment to consumer*** Wed, Mar 15, 2017 5:00 PM - 6:00 PM PKT. (Webinar).
- ***UNEP-DHI FD Webinar #2: Drought management today – cases from Asia"***. Thu, Jan 12, 2017 2:00 PM - 3:00 PM PKT. (Webinar).
- ***Remote Sensing of Land Indicators for Sustainable Development Goal 15 (Session A)"***. Tue, Jun 20, 2017 10:00 PM - 11:00 PM PKT. (Webinar).
- ***UNEP-DHI FD Webinar #3: Drought early warning and assessment: experiences from Africa"*** Tue, Feb 28, 2017 5:00 PM - 6:00 PM PKT. (Webinar).
- ***UNSSC/Data-Pop Alliance Data for Sustainable Development*** Webinar with Dr. Emmanuel Letouze, Data-Pop Alliance Host: Knowledge Centre for Sustainable Development, Bonn Date and Time: Thursday, March 30, 2017 2:30 pm, Europe Summer Time (Rome, GMT+02:00). (Webinar).
- ***UNSSC/Data-Pop Alliance Data for Sustainable Development_3rd*** Webinar with Dr. Nuria Oliver Host: Knowledge Centre for Sustainable Development, Bonn Date and Time: Monday, 12. June 2017 14:30, Europe Summer Time (Berlin, GMT+02:00). (Webinar).
- ***Gender mainstreaming solutions for protected areas*** Thursday, 9 March 2017, at 9am EST / 3pm CET. (Webinar).
- ***Healthy villages are smart villages: Health, energy, and development*** Thu, Feb 16, 2017 8:00 PM - 9:30 PM PKT. (Webinar).
- ***Protocol on Water and Health: Make Your Voice Count!*** Date Time: Feb 24, 2017 1:00 PM Amsterdam, Berlin, Rome, Stockholm, Vienna. (Webinar).
- ***Applied Remote Sensing Training Program Introduction to Remote Sensing of Harmful Algal Blooms*** Tuesdays, September 5-21, 2017 11:00-12:00 EDT or 21:00-22:00 EDT (UTC-4). (Webinar).
- ***Introduction to Remote Sensing for Scenario Based Ecoforecasting.*** On Sep 7 – 28, 2017 (Advanced Webinar/Training).
- ***Introduction to Remote Sensing for Harmful Algal Blooms.*** On Sep 5 – Sep 26, 2017 (Advanced Webinar/Training).
- ***Overview of the Global Disaster Alert and Coordination System.*** On February 21, 2017 (Advanced Webinar/Training).
- ***Land Cover Classification with Satellite Imagery.*** On January 31, 2017 & February 7, 2017 (Advanced Webinar/Training).
- ***Women & energy entrepreneurship: Business models for off-grid energy and social impact, Part II.*** Thu, Aug 11, 2016 12:00 PM - 1:00 PM CEST. (Webinar).
- ***Scenario Planning in Theory and Practice.*** Wed, May 18, 2016 2:00 PM - 3:00 PM GMT. (Webinar).
- ***Supporting SDG6 monitoring and reporting with Earth Observation.*** Wed, Sep 14, 2016 6:00 PM - 7:00 PM PKT. (Webinar).
- ***Impact in the Forests - Catalysing deforestation free business solutions in Asia.*** Wed, Aug 31, 2016 7:00 PM - 8:00 PM PKT. (Webinar).
- ***The big chill: Off-grid cooling for water, refrigeration, spaces, and more....*** Thu, Jun 30, 2016 7:00 PM - 8:00 PM PKT. (Webinar).
- ***Applications of Remote Sensing for Soil Moisture and Evapotranspiration.*** On September 1-29, 2016 (Advanced Webinar/Training).
- ***Remote Sensing of Forest Cover & Change Assessment for Carbon Monitoring.*** On June 9 – July 7, 2016 (Advanced Webinar/Training).

- ***Using NASA Remote Sensing for Flood Monitoring and Management***. On March 16 – April 6, 2016 (Advanced Webinar/Training).
- ***Rainwater Harvesting and soil biology***” on February 19th 13:00 - 14:00 2015 GMT organized by Water & Sanitation Specialist Rural Water Supply Network (RWSN) www.rural-water-supply.net. (Webinar).
- ***Rainfed Agriculture and Flood Based Farming*** on March 12, 13:00 2015 organized by The Water Channel Team. (Webinar).
- ***Carbon Market Opportunities for Louisiana’s Coastal Wetlands*** on March 5, 2015 11:00 AM - 12:30 PM PST organized by American Carbon Registry. (Webinar).
- ***CTCN: Introduction to Climate Technologies for Mitigation: The role of climate technologies in reducing greenhouse gas emissions*** on April 8, 2015 10:00 AM - 11:30 AM CEST. (Webinar).
- ***Retention and Recharge on Basin Level*** on 16 April 2015 at 13:00 GMT. (Webinar).
- ***Trade and Green Growth: Measuring the impact of environmental policy on economic competitiveness*** on 7 May 2015, 13:00-14:00 (Geneva) organized by Green Growth Knowledge Platform (GGKP). (Webinar).
- ***Farmer Knowledge Networks for productive, resilient agriculture*** on August 18, 2015 (10:30 GMT), www.thewaterchannel.tv/webinar.
- ***A proxy for forest degradation – using a spatial pattern analysis to identify potentially degraded forests*** on August 26, 2015 7:00 PM - 8:00 PM PKT organized by forest climate group. (Webinar).
- ***Water Quality Interventions*** on October 28, 2015 7:00 PM - 7:45 PM PKT. (Webinar).
- ***Creating a Sustainable Brand*** Wednesday, Jul 9, 2014 4:30 PM - 5:30 PM BST (Webinar).
- ***Analyzing the Water-Energy Nexus: Case Studies that Examine the Crucial Connection***
Monday, Jun 30, 2014 10:00 AM - 11:30 AM PDT (Webinar).
- ***Tree-based Sustainable Farming in Rainfed areas*** 18th of June at 10.30 AM GMT (Webinar).
- ***State of the Voluntary Carbon Markets 2014 Report Launch Webinar featuring Ecosystem Marketplace*** Wednesday, June 11, 2014 from 1 PM - 2 PM (Webinar).
- ***Developing Allometric Equations for REDD+ MRV***, Wednesday, May 28 at 11AM EDT/5PM CEST (Webinar).
- ***LA YES Session @ EGU: Geoethics and Natural Hazards*** on Tuesday, April 9, 2013 8:00 AM - 12:00 PM CEST
- ***LA PROTEZIONE CIVILE ITALIANA*** Department of civil protection and Department of Earth System Sciences University of Modena and Reggio Emilia Italy on 14 October 2011.
- ***I travertini del Parco di Jiuzhaigou, Sichuan (Cina), Patrimonio Mondiale UNESCO*** by Prof. Stefano Lugli , Department of Earth System Sciences University of Modena and Reggio Emilia Italy on 25 November 2010.
- ***Introduction to the Berriasian Oncala Gr, Cameros Basin (N Spain)*** by Emma Quijada, Dpt. Estratigrafia Universidad Complutense de Madrid Aula M Dipartimento di Scienze della Terra dell' Universita degli Studi di Modena e Reggio Emilia on 28 October 2010.
- ***LE DOLOMITI dichiarate dall' UNESCO, Patrimonio mondiale dell'Umanita*** by Prof. Mario Panizza Department of Earth System Sciences University of Modena and Reggio Emilia Italy on 11 May 2010
- ***Geoheritage and Geotourism in Portugal: Some Examples*** by Prof Maria Luisa Rodrigues, Centro di Estudos Geograficos Universidade de Lisboa (Lisboa, Portugal) Department of Earth System Sciences University of Modena and Reggio Emilia Italy on 08 April 2010.
- ***University/Museum Partnerships: Scientific Outreach though Informal Venues*** by Carlyn S. Buckler, Paleontological Research Institution, Ithaca (NY, USA) Department of Earth System Sciences University of Modena and Reggio Emilia Italy on 25 March 2010.
- ***Exhibit Evaluation: a Resource for Implementing Outreach Strategies*** by Veronica Padovani, Department of Earth System Sciences University of Modena and Reggio Emilia Italy 25 March

2010.

- ***Introduction to Morphometric Terrain Analysis*** by Dott. Alexander Daehne Department of Earth System Sciences University of Modena and Reggio Emilia Italy on 11 December 2009.
- ***Analisi geostatistiche per la Terrain analysis in ambiente GIS*** by Dott. Francesco Troiani, Department of Earth System Sciences University of Modena and Reggio Emilia Italy on 04 December 2009.
- ***The provenance of ancient glass using radiogenic isotopes, in an environmental context*** by Julian Henderson from Department of Archaeology, University of Nottingham Department of Earth System Sciences University of Modena and Reggio Emilia Italy on 26 November 2009.
- ***Rischio sismico*** by Prof. Dorian Castaldini Department of Earth System Sciences University of Modena and Reggio Emilia Italy on 18 April 2009.
- ***CO₂ e riscaldamento globale: fatti e leggende. Esempi dal passato*** in Department of Earth System Sciences University of Modena and Reggio Emilia Italy on 26 March 2009.
- ***Centri Funzionali Strumenti operativi di supporto alle previsioni delle frane*** in V.le Aldo Moro 50-Bologna, Italy on 19 March 2009.

NATIONAL SEMINARS/WEBINARS:

- ***How to Enhance Your e-Curriculum for Distance Learners with e-Resources.*** On Thursday, May 07, 2020
- ***Writing a Successful Proposal-I - Elements and Characteristics of a Successful Research Application.*** On Friday July 3, 2020.
- ***Writing a Successful Proposal II - Developing a Theory of Change.*** On Wednesday July 8, 2020
- ***Writing Successful Proposals - Value for Money: Linking Budget with Theory of Change.*** On Thursday July 23, 2020.
- ***Writing a Successful Proposal - Forging Effective Research Policy Partnerships for Impact.*** On Friday July 24, 2020
- ***7th International Monsoon Forum on "Monsoon 2019 Outlook Associated Vulnerabilities & Mitigation Options" on 17th June 2019, Avari Hotel Lahore.***
- ***Roadshow on New R&D Framework of HEC" at Alrazi Hall, Centre for Undergraduate Studies, University of the Punjab Lahore on November 23rd, 2019.***
- Seminar on **"World Quality Day"** with 100 years of quality organized by The Quality Enhancement Cell (QEC) in the Collaboration of Institute of Quality and Management (IQTM) on Thursday, November 14, 2019.
- 1st National Conference on **Education Policy and Development 2019** in Seminar Hall, Institute of Social & Cultural Studies (ISCS), University of the Punjab Lahore. On Friday January 25, 2019
- 7th International Conference on Research in Education (ICORE 2019) **"Teacher Education: 21st Century Challenges"** held on 19-21 November 2019 at Institute of Education and Research, University of the Punjab.
- Participated in a one day Seminar on **"GIS Day"** in Seminar Hall, Department of Geology, University of the Punjab dated 14th November 2018.
- Delivered a one day Seminar on **"World Water Day"** in Department of Geography, University of the Punjab dated 22nd March 2017.
- Participated in a one day Seminar on **"World Quality Day"** organized by Quality Enhancement Cell, University of the Punjab dated 8th February 2017.
- Participated in a one day Seminar on **"GIS Day"** in Department of Geography, University of the Punjab dated 14th December 2016.
- Participated in a one day Seminar on **"Pakistan India Relations and the Kashmir Dispute"** in Al-Razi Hall, Centre for Undergraduate Studies, University of the Punjab dated 25th October 2016.

- Delivered a one day Seminar on “**World Water Day**” in Department of Geography, University of the Punjab dated 22nd March 2016.
- **Accelerating Innovation through Academia, Industry and Public sector partnership** FAST-NU, Lahore (Auditorium) organized by Institute of Research Promotion on 26th April 2007.
- **Collaboration in Research “(Institutional-Industrial Partnership)** Forman Christian College, Lahore organized by IRP(Institute of Research Promotion) with the collaboration Statistics Society on 12th April 2006.

INTERNATIONAL WORKSHOPS:

- **The 2012 Emilia earthquake** Consultancy Meeting of Working Group 1.6 "Paleoseismology and ESI intensity scale" in Modena, Italy from October 2-4, 2012.
- **Active tectonics from hypsometric integral analysis using GIS based local indicators of spatial autocorrelation in Afghanistan-Pakistan** in "Our Complex World: Representation, Analysis and Modeling" ICA-ISPRS Joint Workshop from August 10-12, 2011.

NATIONAL WORKSHOPS:

- Masterclass Workshop “**How to Write a Great Research Paper, and Get it Accepted by a Good Journal**” organized by HEC and Elsevier South Asia on June 3rd 2020.
- **Online Free Author Workshop for HEC Universities/Institutes** on 27th of January 2021 at 2.30pm (Pakistan Time) organized by Wiley.
- Attended a Workshop “**University of the Punjab Evolution in Academic R&D- Impact, Interest and Context**” on 16th Nov 2016
- Attended a free online workshop on “**Informatics for writing manuscripts**” 25th Feb 2016.
- **Self-Assessment Manual for Higher Education Institutions** Faculty of Engineering and Technology, University of the Punjab Lahore Pakistan on 15th February 2007.
- **Innovations in Assessment** Faculty of Engineering and Technology, University of the Punjab Lahore Pakistan on 15th January 2007.
- **In Service Teachers Training Workshop at** Lady Griffin Girls High School on 18th June 2005.

AREAS OF INTEREST:

- Mountain research and development.
- 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 management.
- Integrated watershed management.
- Sustainable development.
- Health, safety and environmental management.
- Promotion of science and technology.

SOFTWARE OPERATING EXPERIENCE:

- Arc Map 9 and above, 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)

PROFESSIONAL MEMBERSHIPS:

- Member of International Association of Geodesy
- Member of International Society for Photogrammetry and Remote Sensing
- 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 American Geophysical Union (AGU)
- 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) Geography Department
- Member Scholarship Committee Geography Department
- Member Departmental Doctoral Program Committee Geography Department
- Member ORIC Punjab University Lahore

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

Sr. No.	Roll No.	Name of Students	Title of Thesis
<u>Ph.D. Geography (Session 2018-21)</u>			
1	04	Farrukh Afzal	Assessing the Effects of Air Pollution on Peri-Urban Agriculture of Lahore City, Pakistan
<u>Ph.D. Geography (Session 2017-20)</u>			
2	04	Rehana Mehar Ali	Assessing Land Degradation in Salt Mining Areas of Mianwali and Chakwal Districts, Punjab Pakistan
<u>Ph.D. Geography (Session 2016-19)</u>			
3	02	Saba Akram	Site Specific Flood Risk Assessment of Chaj Doab, Punjab Pakistan
<u>Ph.D. Geography (Session 2015-18)</u>			

4	05	Muhammad Shakeel	Appraisal of Land Degradation in Agricultural Landscape of Central Punjab Pakistan.
5	04	Muhammad Ghous	Evaluation of Ecotourism Potential for the Sustainable Development of Salt Range Wetlands, Punjab Pakistan
6	07	Abdul Basit	Impact of Climate Change on Agricultural Land Resources for Sustainable Land Use Planning of Dera Ghazi Khan, Pakistan
<u>M.Phil Geography (Session 2018-20)</u>			
7	11	Mubashra Mansoor	Hotspot Analysis of Crime Rate and its Relation to Heat and Aggression in Lahore. A Case Study of Saddar Division
8	12	Nabeeha Tariq	Environmental Impacts of Diapers Consumption in Lahore
<u>M.Phil Geography (Session 2017-19)</u>			
9	03	Aneeqa Manzoor	Monitoring Land Surface Temperature and its Impact on Cropping Patterns of Hafizabad District, Punjab
10	04	Areeba Farasat	Implications of the Neo-Malthusian Theory on the Economic Development of Pakistan
11	07	Sana Noor	Assessing People's Perception about the Existence of Slums in Some Selected Union Councils of Lahore
12	10	Rashda Perveen	Estimation of Rainwater Harvesting Potential in Gujranwala District-Punjab, Pakistan
<u>M.Phil Geography (Session 2016-18)</u>			
13	03	Behroz Tariq	Impact Assessment of Urban Evolution on the Arable Land of Lahore.
14	13	Sana Nazli	Identification of Eucalyptus Trees and Their Effect on ground water depletion in Lahore.
15	14	Samra Aslam	Assessing Effects of High Voltage Overhead Power Supply System on Public Health in Lahore.
<u>M.Phil Geography (Replica) (Session 2015-17)</u>			
16	06	Nida Fatima	Spatial Analysis and Assessment of the Potential Health Hazards due to Petrol Stations along the Major Roads of Lahore City.
17	16	Rumana Siddiqui	An Assessment of Rain Water Harvesting Potential in Lahore.
<u>M.Phil/M.S GISc & RS Students Self-Support Program (Session 2015-17)</u>			
18	03	Kanwal Javid	GIS Based Assessment of Aridity Over Punjab Province Pakistan using Climatic Indices.
19	05	Naima Anwar	Loss of Arable Land due to Rapid Urbanization in Gujrat: A Remote Sensing and GIS Based Study.
20	07	Muhamad Ameer Nawaz Akram	Application of Remote Sensing for Spatial Identification & Classification of Slums in Gujrat City.
21	08	Syed Muhammad Owais	Monitoring and detection of Deforestation and Forest degradation in District Swat: A Remote Sensing and GIS Based Study.
22	14	Fareeha Rasheed	Changing Patterns of Rapid Urbanization in District Sahiwal, Punjab: A Remote Sensing and GIS Approach.
<u>M.Phil. Geography (Session 2014-16)</u>			
23	01	Sikandar Hussain	Impact Assessment of Flood 2014 in Mandi Baha ud Din Using GIS and Remote Sensing Techniques.

24	03	Wajahat Majeed Khan	Estimation of Green House Gas Emissions by Households: A Case Study of Lahore.
25	06	Mudasar Hussain Shah	Spatial Variations in Cotton and Rice Production in District Vehari from 1995-2015.
<u>M.Phil. Geography (Session 2013-15)</u>			
26	10	Bareera Mehfooz	Spatial Analysis of Housing Quality and Related Health Issues in Lahore.
<u>M.Phil. Geography (Session 2012-14)</u>			
27	07	Ayesha Ali	Monitoring Spatial Distribution of Floral Species of Lahore using Geospatial techniques.
28	10	Saba Akram	Urban Expansion and Loss of Agricultural Land in Multan Using Geospatial Techniques.

REFERENCES:

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