

CURRICULUM VITAE

Mrs. QUDSIA GULZAR
GIS Centre, Punjab University,
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CAREER OBJECTIVE:

Render my services in full potential and excel myself in a rapidly growing employee focused organization.

<u>DEGREE</u>	<u>INSTITUTE</u>	<u>YEAR</u>	<u>Marks Obtained</u>
M.Phil. RSGIS	GIS Centre University of the Punjab, Lahore	2012	3.6 (CGPA)
M.Sc. (GIS)	GIS Centre University of the Punjab, Lahore	2003	4.0 (CGPA)
M.Sc. (Geography).	Dept. of Geography, University of the Punjab, Lahore	1996	659/1200

DISTINCTIONS:

- First position in MPhil RSGIS, University of the Punjab, Lahore (Session 2010 -2012)
- First position in M.Sc. GIS University of the Punjab, Lahore (Session 2001-03)
- First position in S.Sc. at Government Girls High School Jhelum.
- Won Scholarship in M.Sc. Geography Part I at University of the Punjab Lahore.

WORK EXPERIENCE:

<i>Institute</i>	<i>Designation</i>	<i>Date</i>
• GIS Centre, University of the Punjab. Lahore	Assistant Professor	October 2018 - to date
• GIS Centre PUCIT University of the Punjab, Lahore	Lecturer	Oct 2006 –Oct 2018
• Garrison post Graduate College for Women, Lahore	Lecturer	Oct 2001 – Oct 2006
• Lahore Grammar School, M. M. Allam road, Lahore	Teacher	Jan 2001 – Aug 2001
• Beacon house School Systems, Garden Town, Lahore	Teacher	Sep 1997 – Jan 2001

RESEARCH WORK:

Mphil RSGIS

- 3D Spatial Parcel Registration System

Msc GIS

- System Architecture for Integrated Land Information System

Term reports

- Demographic survey report of two villages of Bahawalpur 5Bc and 25Bc
- Image analysis report to delineate land use in Lahore.
- Information system development plan for fire brigade services in Lahore.

Research Publication:

1. M. H. Chaudhry, A. Ahmad, Q. Gulzar; optimum parameters identification for topographic mapping using unmanned aerial vehicle in slope terrain; GBES 2019 International graduate conference of built environment and surveying, university of technology Malaysia, 24 – 25 June 2019.
2. Hamid, M., Anuar, A., Gulzar, Q., Saqib, Z. A., Jahanzeb, M. C.; Multiscale geomorphological mapping using high resolution satellite imagery and unmanned aerial vehicle imagery; Annual conference on Remote Sensing 2018, Kuala Lumpur, Malaysia.
3. Tariq, H., Hamid, M., Gulzar, Q., Mir, A. H., Samad, N., Haris, M., Khalid, M. B.; Using High Resolution Stereo Imagery for Contouring: Complex terrain contour mapping of Naukandi, Balochistan; National Academy Science letters India; (Accepted Dec, 2017) (I.F: 0.369) (Published Online: September 25, 2018). doi.org/10.1007/s40009-018-0663-9
4. Muhammad Burhan Khalid, Muhammad Haris, Qudsia Gulzar, Muhammad Hamid Ch & Nida Samad (2018) Spatio-temporal Network-Constrained Trajectory Data Model and Service Reliability Assessment, IETE Journal of Research, 64:5, 722727, DOI: [10.1080/03772063.2017.1369372](https://doi.org/10.1080/03772063.2017.1369372) (IF: 0.909)
5. Hamid, M., Ashraf, M., **Hamid, Q.**, Sarwar, M. S., Dasti, A. Z.; Geospatial Techniques for River Channel Assessment; Sains Malaysiana (IF: 0.446) Sains Malaysiana 46 (3) (2017): 413 – 420
6. **Qudsia Hamid**, Muhammad Hamid Ch, Shaker Mahmood Mayo, Muhammad Shahid Farid; Arc GIS and 3D visualization of Land Records (A case study of urban areas in Punjab); National Academy Science letters India (Accepted April 2015) (Online 22nd March, 2016) (July–August 2016) 39(4):277–281 DOI 10.1007/s40009-016-0442-4 (IF : 0.292)
7. Nida Samad, Muhammad Hamid Ch, Muhammad Ashraf, Muhammad Saleem, **Qudsia Hamid**, Umair Babar, Hassan Tariq, Muhammad Shahid Farid; Sediment Yield Assessment and Identification of Check Dam Sites for Rawal Dam Catchment; Arabian Journal of Geosciences, ISSN:1866-7511 (IF: 1.224) (Accepted on April 22, 2016) (Published online May 2016).
8. Muhammad Hamid Ch, **Qudsia Gulzar**, Zulfiqar Ahmad Saqib, Inayat Ur-Rahman and Nida Samad; A comparative study of Soil salinity indices of Landsat 8 and soil salinity appraisal in Shorkot; International Conference on Clean Water, Air & Soil (CleanWAS) 25-27 August 2017 in Bangkok, Thailand. (Accepted)
9. Aeman Samad, Abdul Waheed Mir, Muhammad Hamid Chaudry, **Qudsia Hamid**, Nida Samad, Muhammad Haris, Muhammad Burhan Khalid; ESTABLISHMENT OF GEODETIC BASELINE; Sci.Int.(Lahore), 28(1), 243-245, 2016 (ISSN 1013-5316) (HEC recognized “Z” category Journal) ISSN: 1866-7511 (Print) (IF:1.224)(Accepted on April 22, 2016) (Published online 21st May, 2016)
10. Rana Mubeen Akhtar, **Qudsia Hamid**, Muhammad Hamid Chaudry, Nida Samad, Muhammad Burhan Khalid; Livestock Geo-Database for Punjab Province; Sci.Int.(Lahore), 29(1), 221-224, 2017. (Non-HEC Recognized)

MPhil Thesis Supervised

- Effect of fertilizers application on crop growth using GIS of different districts in Punjab, Pakistan.
- Agriculture drought assessment using Remote Sensing and GIS (A case study of Faisalabad division) (2016 – 2018)
- Effect of fertilizers application on crop growth using GIS of different districts in Punjab, Pakistan. (2016 – 2018)
- Fire hazard and mitigation measures using GIS technologies. (2014 – 2015)

MSC Thesis Supervised

Session 2017 – 2019

- Forest characteristics mapping with UAV data.
- RS/GIS techniques for flood hazard impact analysis
- Analyzing the deforestation effects on the climate using GIS and RS techniques.
- Evaluating impact of urban sprawl on ground water level using GIS/RS techniques.
- Spatial home finder.

Session 2016 – 2018

- Assessing crop health and estimating crop yield using multispectral imagery: A case study of Faisalabad city for wheat crop.

Session 2015 – 2017

- Regional warming: a comparison of Lahore with surrounding rural settlements by using GIS techniques
- Flash flood modeling along Dera Ghazi Khan using RS/GIS techniques
- Flood modeling and assessment along Chenab river

Session 2014 – 2016

- GIS analysis techniques and solar radiation estimation in Punjab
- GIS techniques and pilgrims guidance management system
- Baluchistan coastline change detection by using image processing and GIS techniques
- Cadastral geodatabase for livestock
- Image processing techniques in assessment of surface urban heat island in Gujranwala city
- Spatial approach and watershed basin management

Session 2013 – 2015

- Coal surface geological mapping through satellite imagery
- 3-D land use by ground surveying techniques.
- Location based temporal analysis of crime data.
- GIS Based spatial and temporal analysis of terrorism in Pakistan for year 2001 – 2013.
- Spatial analysis of demographic data.
- Digital image processing and soil suitability assessment of certain crops.

Session 2012 - 2014

- Spatial analysis of physio-chemical composition of river water.
- Functional land use mapping.
- Mineral rights management by using GIS techniques.
- Crime pattern analysis through GIS technology.
- Mapping and identification of an encroachment along River Ravi by using digital image processing.
- GIS Based Solution for canal water distribution

Session 2011 – 13

- Settlement Pattern change detection through remote sensing and GIS
- GIS based drainage network analysis

THESIS EVALUATED:

MPHIL

- Geospatial Database of Forest Inventory Using GIS and RS Techniques. (Mphil RS/GIS PUCIT)
- Assessment of Urbanization and Urban Sprawl Analysis through Remote Sensing and GIS. (Mphil RS/GIS PUCIT)
- Soil productivity variation analysis in the agriculture zone of the Punjab province. (Mphil RS/GIS PUCIT).
- Flood plain modeling from Mangla downstream to Head Trimmu using Geo-spatial techniques. (Mphil Geography GCU Lahore)
- Impact of Urbanization on Agriculture in Lahore. (Mphil RS/GIS PUCIT)

- Assessment of Waterlogged Area Using GIS. (Mphil RS/GIS PUCIT)
- Spatial Modeling for defining forest protection zones. (Mphil RS/GIS PUCIT)

BS (Hons)

- Impact of Land Slide on Transportation System in Chitral
- Mapping and carbon Stock Assessment of tree species of Lawrence Garden Lahore

RESEARCH GRANT:

- Won Punjab University Research Grant for the Year 2013, 2014, 2015 and 2016.

TRAINING/Workshop:

- Attended IEEE and Scopus WebEx training session on 20th February 2019, organized by Punjab University ranking committee and Punjab University main Library.
- Attended 3 days training course on “Earth Observation Application in Agriculture and Food Security”, 26 – 29 December, 2018, organized by Pakistan Agriculture Research Council (PARC) and International Centre for Integrated Mountain Development (ICIMOD), Nepal
- Attended one day CPD workshop (One CPD credit point) on “Computer Modeling for Flood Estimation and Management” March 28, 2017 at Centre of Excellence in Water Resource Management at UET Lahore.
- Attended 5th International. Multidisciplinary Conference, 29-31 Oct 2015., at ICBS, Lahore
- Attended a training workshop from 8-9 April 2014 on “Governance and Management of Urban Growth” organized by FCC Public Policy Research and Resource Centre.
- Served as Resource Person in National Training Workshop from November 28 – December 02, 2011 on “GIS/GPS application in epidemiology of human and animal diseases and in biological science research” organized by internationally accredited (ISO 17025) UDL and GC University Lahore.
- Participated in training workshop from April 11 – 12, 2011 on “Disaster Risk Management” organized by NDMA, NIDM, PU and UNDP.
- Participated in a short course from June 20 -22, 2003 on “Quaternary Geology of the Punjab Plains” held at the Institute of Geology, University of the Punjab.

TEACHING INTEREST:

- Spatial Data Model
- Coordinates and Projection Systems
- Geo Information Management System
- Spatial Data Visualization
- Land Information Systems
- Remote Sensing

SOFT WARE:

- Erdas Imagine
- MySql
- Visual paradigm
- MATLAB
- Arc GIS
- Ilwis
- Arc View

References will be furnished upon request

I certify that all the information stated in this CV is true and complete to the best of my knowledge. I authorize to verify the information provided in this CV.