

Dr. Khurram Chohan

Remote Sensing / GIS Specialist

Summary

Motivated and results-oriented professional in Remote Sensing & Geographic Information Science (GIS) with 17 years of experience in geospatial and remote sensing projects. Well-versed in quantitative analytical research, particularly with ESRI ArcGIS suite, ERDAS, ENVI, Global Mapper, Terrset, and QGIS. Experienced with managing multiple databases and working on multiple projects simultaneously. Expertise in advanced satellite imaging processing, land cover mapping, River Morphology, and land use and land cover change (LULC) analysis. Familiarity with the Open pgAdmin Postgres / PostGIS and web-mapping applications using JavaScript, CSS, HTML, and Google Earth Engine (GEE).

Experience

Assistant Professor (BS-19) June 27, 2024 to TO-DATE

Lecturer (BS-18) Remote Sensing / GIS (Regular)- 03/2010 to June 2024

Government College University, Lahore, Pakistan

- *Conducting Lectures at BS. Programs and Post Graduate Degree Levels.*
- *Maintain databases of Geospatial Datasets*
- *Strictly abided by all organizational Policies Including KWOs (Key Work Objectives).*
- *Research Work*

GIS Resource Person (GIS)– 04/01/2011

Training of Trainers (TOT), Directorate of Staff Development, Punjab, Lahore, Pakistan

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Urban Sector Planning & Management Unit Pvt. Ltd., Lahore

GIS Research Associate - 12/2009 to 03/2010

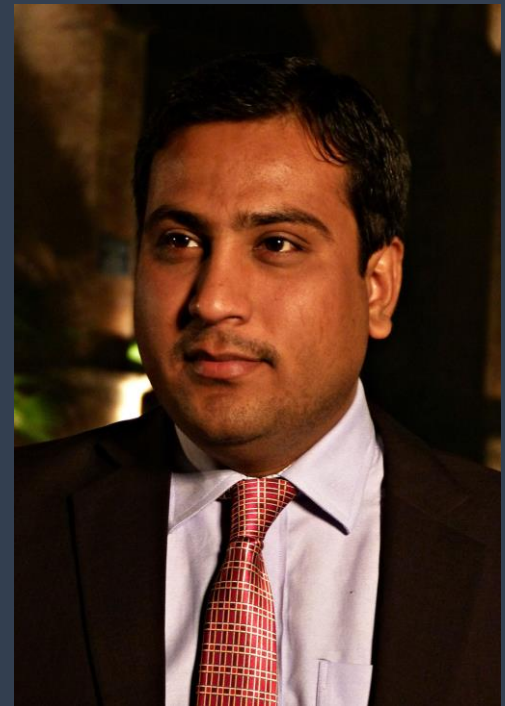
Urban Sector Planning & Management Unit Pvt. Ltd., Lahore

- Promptly coordinate with the Survey Teams and Lab analyses.
- Maintain and update geospatial databases
- Strictly abided by all organizational Geospatial Tasks.
- Coordinate with other Government Department for digitization of manual records.

GIS Internee - 08/20008 to 12/2009

Urban Sector Planning & Management Unit Pvt. Ltd., Lahore

- Rectification of topographic Maps, Digitization, Scanjet



Contact

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+92-321-1455933

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<https://www.linkedin.com/in/dr-khurram-chohan-a8849819/>

Highlights

- GIS/Remote Sensing Applications in Fluvial Morphology
- River Sinuosity / Thalwegs
- Erosion / Deposition
- Sediments and Flow Discharge
- Bankline Migration
- Riparian Zone Classification
- River Restoration
- River Forests Depletion
- River Training Works

Education

PhD. Geomatics: 2016-2021

College of Earth & Environmental Sciences (CEES), University of the Punjab, Lahore, Pakistan

M.Phil. Geomatics: 2012-2014

College of Earth & Environmental Sciences (CEES), University of the Punjab, Lahore, Pakistan

M.Sc. Geographical Information System (GIS): 2006-2008

Punjab University College of Information Technology (PUCIT), University of The Punjab, Lahore, Pakistan.

Bachelors: 2003-2005

University of the Punjab, Lahore, Pakistan

Intermediate: 2001-2003

Board of Intermediate & Secondary Education (BISE), Lahore, Pakistan

Matric: 2000-2001

Board of Intermediate & Secondary Education (BISE), Lahore,

Conferences / Workshop

International:

1. **2nd International Geographical Conference** (Virtual) on Climate Change & Disasters (5th-6th October, 2023)
 - **Chaired Technical Session:** Hydrometeorological Hazards and Disaster Risk Reduction (5th October, 2023)
 - **Chaired Technical Session:** Adaptation and Mitigation (5th October, 2023)
2. **International Conference on Environment and Sustainable Development 2014** (December 16-17)
 - Three Oral Presentations
 - Three Poster Presentations

National:

- Three Oral Presentations Participated in **Pakistan Urban Forum I 2011** (March 1st to March 5th) with ID.2844
- Participated in **“Effective Utilization of e-resources of HEC”** training conducted by HEC and GCU at Post Graduate Library, GC. University, Lahore on 4th November, 2010.
- Participated in **“Disaster Risk Management”** workshop on 18th and 19th January 2012 held by Geography department, GC University, Lahore, Pakistan with the collaboration of UNDP and National Disaster Management Authority (NDMA), Pakistan.
- Participated in **“Digital Cartography”** course arranged by The Department of Geography GC University, Lahore as a technical support person from 18th April to 23rd April 2012.

Latest Research

Remote sensing based innovative solution of river morphology for better flood management Published at International Journal of Applied Earth Observation and Geoinformation



Language Skills

English	Urdu	Punjabi
Excellent	Excellent	Excellent

Technical Skills

- ESRI's ArcGIS (all Versions)
- Hawth's Tools
- NetMap Tools
- Digital Shoreline Analysis System (DSAS)
- Erdas Imagine
- Global Mapper
- HEC-GEO-RAS
- HEC-RAS
- QGIS, Geoda, DIVA GIS
- Google Earth Engine
- Pgadmin / PostGIS

Publications (Total Impact Factor= 27.21)

1. Chohan, K., Ahmad, S. R., Ashraf, A., Kamran, M., & Rasheed, R. (2022). **Remote sensing based innovative solution of river morphology for better flood management.** International Journal of Applied Earth Observation and Geoinformation, 111, 102845.

Impact Factor:	7.67	Citations	5
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2. Yousaf, W., Awan, W. K., Kamran, M., Ahmad, S. R., Bodla, H. U., Riaz, M., ... & Chohan, K. (2021). **A paradigm of GIS and remote sensing for crop water deficit assessment in near real time to improve irrigation distribution plan.** Agricultural Water Management, 243, 106443.

Impact Factor:	6.7	Citations	20
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3. Naseem, S., Tabinda, A. B., Baqar, M., Chohan, K., Aslam, I., Mahmood, A., ... & Zhang, G. (2023). **Organochlorines in the riverine ecosystem of Punjab province, Pakistan: contamination status, seasonal variation, source apportionment, and ecological risk assessment.** Environmental Science and Pollution Research, 30(14), 40340-40355.

Impact Factor:	5.8	Citations:	0
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4. Tahir, F., Rasheed, R., Mahmood, S., Chohan, K., & Ahmad, S. R. (2023). **REDD+ framework and forest sustainability in Pakistan versus other South Asian countries: a multi-criteria-based analysis.** Environment, Development and Sustainability, 1-22.

Impact Factor:	4.9	Citation:	0
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5. Kamran, M., Ahmad, S. R., Chohan, K., Akhtar, A., Mansoor, R., & Khan, A. (2022). **Assessment of Water Stress in Rice Fields Incorporating Environmental Parameters.** Int. J. Innov. Sci. Technol, 4(2), 416-424.

Impact Factor	-	Citations	2
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6. Chohan, K., Ahmad, S. R., ul Islam, Z., & Adrees, M. (2015). **Riverine flood damage assessment of cultivated lands along Chenab River using GIS and remotely sensed data: a case study of district Hafizabad, Punjab, Pakistan.** Journal of Geographic Information System, 7(05), 506.

Impact Factor	1.07	Citations	21
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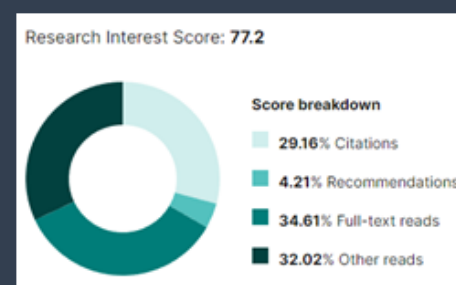
Surveying Experience

1. Having experience of extensively large land use and land use management related surveys of various cities of Punjab, Pakistan including the collection of GPS points of more than two thousand locations. Surveyed cities are as under;

- a. Dera Ghazi Khan (Punjab Province)
- b. Gujjar Khan (Punjab Province)
- c. Chiniot (Punjab Province)
- d. Lahore (Punjab Province)

2. Have successfully completed a project of Environmental Impact Assessment and Socio Economic Survey of Metro Bus Transit Route Lahore from 9th November 2015 to 11th December 2015. This project was out sourced by OSMANI. OSMANI is one of the leading Consulting Companies with standing of more than 53 years in the Consulting Profession. It was established in 1960, has grown from a small private group of Engineers & Architects to a large organization in the shape of Private Limited Company in 1971.

Research Interest Score by Research Gate



Publications

7. Z. U., Ahmad, S. R., Chohan, K., & Ashraf, A. (2015). **GIS enabled condition based asset management of gas distribution network: A case study of Shahdara, Lahore Pakistan**. Journal of Geographic Information System, 7(04), 358.

Impact Factor	1.07	Citations	1
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Administrative Responsibilities

1. **Program Coordinator BS. Remote Sensing and GIS:**
Department of Geography, GC University, Lahore. (12-09-2023-to-Todate)
2. **Program Coordinator BS. Geography (Evening):**
Department of Geography, GC University, Lahore. (01-09-2019-to-February,2020)

Profile Link

<https://gcu.edu.pk/geography.php?pg=faculty>

Hobbies

Cricket, Online Games, and Reading Books

Reference

Reference will be Furnished if required.

Projects

1. **Spatial Data Visualization Project:**
Spatial and attribute data gathering, preparation of DOT map of Mianwali District using 1998 census data by applying various visualization techniques.
2. **Contours to DEM generation of**
Northern areas of Pakistan
3. **Spatiotemporal Delineation of**
Rive Morphology and Its Dynamics in
Chenab Rive, Punjab, Pakistan
4. **Environmental Impact**
Assessment And Socioeconomic
Survey Of Bus Rapid Transit Lahore
(Metro) In Collaboration With
OSMANI INTERNATIONAL.
5. **GIS Enabled Condition Based**
Asset Management of Gas
Distribution Network: A Case Study
of Shahdara, Lahore
6. **Riverine Flood Damage**
Assessment of Cultivated Lands along
Chenab River Using GIS and Remotely
Sensed Data: A Case Study of District
Hafizabad, Punjab, Pakistan