

# CURRICULUM VITAE

## **MOHAMMAD HAMID CH**

Assistant Professor

GIS Centre, University of the Punjab, Lahore Pakistan.

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## **CAREER OBJECTIVE**

To seek challenging assignment and responsibility with an opportunity for growth and career advancement as a successfully achievement.

## **ACADEMICS**

1. PhD in progress, University Technology Malaysia, Johor, Malaysia
2. M.Phil. RSGIS, GIS Centre, PUCIT, University of the Punjab, Lahore
3. M.Sc. GIS Centre, PUCIT, University of the Punjab, Lahore
4. M.Sc. Geography, University of the Punjab, Lahore

## **TRAININGS / Workshops / Seminars**

- Participated in a one day structured course on a Literature Review, 19<sup>th</sup> Dec. 2018, Faculty of Built Environment and Surveying, University of Technology Malaysia, Johor Bahru, Malaysia.
- Attended one day seminar by ESRI “Directions : Built, Connect, Share”, 24<sup>th</sup> April 2018, Johor Bahru, Malaysia.
- 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 Spring School on Water Systems, Science and Practice, held at LUMS, Lahore, Pakistan, from 14 to 18 March 2016.
- Attended 5th International. Multidisciplinary Conference, 29-31 Oct., at, ICBS, Lahore
- Resource Person in “Workshop on Remote Sensing” held in Government College University, Lahore. From 5 to 6 October, 2015.
- Resource Person in a training workshop title “Remote Sensing for Monitoring Agricultural Crops and Assessing soil Salinity” from 3-15 February, 2014, in University of Agriculture, Faisalabad, Pakistan.
- **Participated in the international workshop “Strengthening North-South Cooperation in Climate Change Research: an initiative for the Upper INDUS River Basin”, held in Zurich, Switzerland, from May 2-6, 2011.**
- Participated in a one week National Training on “Remote Sensing Based Monitoring and Assessment of Cryosphere – Snow and Glaciers” organized by ICIMOD, Nepal and SUPARCO, Pakistan, from April 18 to 22, 2011.
- Participated in a two days Training on “Disaster Risk Management” Jointly organized by National Disaster Management Authority and National Institute of Disaster Management, from April 11 to 12, 2011.
- Attended one week Knowledge sharing workshop held at Thimpu, Bhutan from 19-21 May 2010 on “Application of Satellite Rainfall Estimates in the HKH Region Phase II”
- Attended one week training workshop in December 2008 in ICIMOD Nepal on “Inception Workshop/Training on Application of Satellite Rainfall Estimates in the HKH region”
- Regional workshop held from 11<sup>th</sup> to 23<sup>rd</sup> Aug. 2008 in Bara Gali Summer Campus, University of the Peshawar, on “Recent developments in geo-hazard disaster management; focusing on EQ vulnerability reduction in mountainous regions”
- Training held from 05<sup>th</sup> to 16<sup>th</sup> March 2007 by ICIMOD Nepal on “Earthquake Vulnerability and Multi-Hazard Risk Assessment: Geospatial tools for Rehabilitation and Reconstruction Efforts” at ICIMOD Kathmandu Nepal
- Training held from 13<sup>th</sup> to 31<sup>st</sup> March 2006 by ICIMOD Nepal on “Earthquake Vulnerability and Multi-Hazard Risk Assessment: Geospatial tools for Rehabilitation and Reconstruction Efforts” in Islamabad
- **Training held from 7<sup>th</sup> June - 24<sup>th</sup> Sep 2004 for watershed Management jointly organized by ICIMOD in Nepal and ITC in Holland.**
- Attended a training workshop on “South Asian Regional Water Shed Modeling 7<sup>th</sup> to 18<sup>th</sup> March 2005, Islamabad.
- Attended one month short course on GIS & RS from GIS Centre Punjab University in 2005.

## **EXPERIENCE**

- Working as Asst. Professor, in GIS Center University of the Punjab, since 06 Aug. 2015.
- Worked as Lecturer in GIS Center University of the Punjab from 3rd May 2005 to 05 Aug. 2015.
- Member BOS Dept. of Geography GC University Lahore Since 2008 to date
- Worked as Coordinator GIS Center University of the Punjab from Aug 2006 to Oct 2014
- Worked as a Resource Person in an Intensive Training Course on “Remote Sensing and Digital Image Processing” organized by University of Agriculture Faisalabad held on Nov. 29 to Dec. 26, 2010.
- Member HEC GIS and RS Curriculum Development Committee (2011 to date).
- Worked as a GIS Analyst in National Agricultural Research Centre Park Road Islamabad for “National Landuse Plan” Project from 3rd Jan to 2nd May 2005.
- Worked as GIS Analyst on GLOF project of ICIMOD in National Agricultural Research Centre Park Road Islamabad from Oct 2003 to Dec 2004.

## **RESEARCH WORK/PUBLICATION: (Total Impact Factor: 14.39)**

1. Muhammad Hamid Ch, Anuar Ahmad, Qudisia Gulzar; Optimum parameters identification for Topographic Mapping Using Unmanned Aerial Vehicle in Slope Terrain; 1st International Graduate Conference of Built Environment and Surveying "Towards Continuity and Livability Revolution" from 24th - 26th June 2019, in UTM Skudai, Johor, Malaysia
2. Muhammad **Hamid Ch**, Anuar Ahmad, Qudisia Gulzar, Zulfiqar Ahmad Saqib, Muhammad Jehanzeb M. Cheema; Multi Scale Geomorphological Mapping Using High Resolution Satellite Imagery and Unmanned Aerial Vehicle Imagery; 39<sup>th</sup> Asian Conference on Remote Sensing 2018 (ACRS) 15-19 Oct. 2018 in Kuala Lumpur, Malaysia.
3. Tariq, H. H., **Hamid, M.**, Gulzar, Q., Mir, W. W., Samad, N., Haris, M., Khalid, M. B., Using High Resolution Stereo Imagery for Contouring: Complex Terrain Contour Mapping of Naukandi, Balochistan, Natl. Acad. Sci. Lett. (2018). <https://doi.org/10.1007/s40009-018-0663-9>, (I.F: 0.519)
4. Rashid, H., Muhammad, K., Rabbani, M., Khan, M. S., Ghori, T., Chaudhry, M., Rashid, H. B., Shabbir, M. Z., **Hamid, M.**, Ali, M. A., Sattar, M. M. K., Muhammad, J., & Jayarao, B., Prevalence and Distribution of Soil-Borne Bacillus anthracis in Different Districts of Punjab, Pakistan (2018), Pakistan, J. Zool., vol. 50(6), pp 1-4, 2018. <http://dx.doi.org/10.17582/journal.pjz/2018.50.6.sc5>, (I.F: 0.547)
5. T. Sohail, T. Yaqub, M. Shafee, T. Abbas, J. Nazir, N. Ullah, M. Rabbani, **M. H. Chaudhary**, N. Mukhtar, M. Habib, A. Ul Rahman, A. I. Malik, A. Ghafoor, M. Y. Zahoor, M. Z. Shabbir.; Seroprevalence of Bluetongue Virus in small ruminants in Balochistan province, Pakistan: Transbound Emerg Dis. 2018;00:1–10. <https://doi.org/10.1111/tbed.12871> (I.F: 3.585)
6. 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)
7. Muhammad Burhan Khalid, Muhammad Haris, Qudisia Gulzar, **Muhammad Hamid Ch** & Nida Samad; Spatio-temporal Network-Constrained Trajectory Data Model and Service Reliability Assessment, IETE Journal of Research (September 2017) (IF: 0.909), DOI: 10.1080/03772063.2017.1369372
8. **Hamid. M.**, Ashraf M., Hamid.Q, Sarwar.M.S, Dasti. A. Z.; Geospatial Techniques for River Channel Assessment; Sains Malaysiana (I.F 0.446) (accepted for publication on 17<sup>th</sup> June 2016)
9. Qudisia 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 22<sup>nd</sup> March, 2016) (July–August 2016) 39(4):277–281 DOI 10.1007/s40009-016-0442-4 (IF: 0.292)
10. Nida Samad, **Muhammad Hamid Ch**, Muhammad Ashraf, Muhammad Saleem, Qudisia 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)
11. Muhammad Zubair Shabbir, Sidra Akram, Zia ul Hassan, Kashif Hanif, Masood Rabbani, Javed Muhammad, **Muhammad Hamid Chaudhary**, Tariq Abbas, Muhammad Taslim Ghori, Haroon Rashid, Tariq Jamil, Zia-ul- Islam, Haisem Rasool, Asghari Bano, Arfan Ahmad, Muhammad Asad Ali, Tahir Yaqub, Walt McVey, Bhushan M. Jayarao; Evidence of Coxiella burnetii in Punjab province, Pakistan; Acta Tropica; 163 (2016) 61-69. (I.F. 2.218)

12. Muhammad Z. Shabbir, Tariq Jamil, Asad A. Ali, Arfan Ahmad, Muhammad Naeem, **Muhammad H. Chaudhary**, Muhammad Bilal, Muhammad A. Ali, Khushi Muhammad, Tahir Yaqub, Asghari Bano, Ali I. Mirza, Muhammad A. B. Shabbir, Walter R. McVey, Ketan Patel, Stephen Francesconi, Bhushan M. Jayarao and Masood Rabbani. "Prevalence and distribution of soil-borne zoonotic pathogens in Lahore district of Pakistan" *frontiers of Microbiology* 2015 (I.F. 4.07)
13. Muhammad Asad Ali, Khushi Muhammad, Aftab Ahmad Anjum, Mansur-ud-Din Ahmad, Masood Rabbani, Muhammad Zubair Shabbir, Arfan Ahmad, Javed Muhammad, **Muhammad Hamid Chaudry**; Spatial distribution of *Burkholderia mallei* in Punjab, Pakistan; *Journal of Equine Veterinary Science*, (ISSN: 0737-0806), (I.F. 0.730)
14. 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)
15. 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)
16. Nawaz, **M. Hamid**, M. Sattar, F. 2006. "Consensus Evaluation and Prioritization using GIS and DSS Tools: Case Study of Kalabagh and Bhasha Dam". ICAST, 2006, Islamabad.
17. 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.*

#### **Research Projects:**

- M.Phil. Research Project "Assessment of Braided stream through Image processing and GIS techniques"
- Geo-Informatics for Watershed Management in Hindu Kush Himalayan Region "Case Study Bara Lake, Shyok River Basin"
- M.Sc. Research Project on "Spatial Decision support System for Water Resource Management"
- Report about "Business activities in Hunza Valley along K.K.H."
- Image analysis report to delineate land use in Lahore.
- Information system development plan for fire brigade services in Lahore.
- Won Punjab University Research Grant for the Year 2013-14 and 15

#### **RESEARCH PROJECTS SUPERVISED**

##### **Students Projects supervised.**

- "Slope Stability Analysis using GIS"
- "Water Contamination Analysis using GIS. A case study of Rahim Yar Khan"
- "Spatio Temporal assessment of tree cover in urban area using GIS and Image processing Techniques"
- "Assessment of Waterlogged area by using GIS"
- "Identification of Missing Links in Urban Water Supply Pipeline Network Through GIS and RS"
- "City Area Quantification Through Remote Sensing & GIS (Burewala, Punjab, Pakistan)"
- "Arsenic in Ground water and Landuse Change Analysis by Using Remote Sensing and GIS Techniques"
- "GIS Based Assessment of Flood Damages (A Case Study of Punjab Flood 2014)"
- "Spatio Temporal Assessment of Tree Cover in Urban Area Using GIS and Image Processing Techniques"
- "Establishment of Geodetic Baseline for Calibration of EDM's"
- "Assessment of Waterlogged Area by using GIS"
- "Slope Stability Analysis Using GIS"
- "Water Contamination Analysis using GIS: A case study of Rahim Yar Khan"
- "Mapping and Contouring From High Resolution Stereo Imagery"
- GIS based solution for canal water distribution

- Lahore canal geo database
- Estimation of Rainfall Runoff in Soan River Basin Using HEC-HMS
- Detection of Glacier Melting in Astor River Basin using Remote Sensing Data
- GIS for Electricity Distribution Network (A Case Study of Punjab University Quaid-e-Azam Campus, Lahore, Pakistan)
- Geospatial Database of University of the Punjab New Campus Lahore
- Estimation of Crop Acreage in Gujranwala District using Satellite Data
- Assessment of Ground Water Quality in Sahiwal District using GIS Technique
- Impact of Drought on Land use /Landover Using GIS and Remote Sensing (A Case Study of Daraban Command Area in Dera Ismail Khan)
- Virtual Modeling of Kalabagh Dam Site
- Identification of Un-Commanded and Commanded area Irrigated by Greater Thal Canal using GIS Technologies
- Estimation and Distribution of Soil Content Using GIS Technologies
- Disaster Mitigation and Preparedness Plan Using Remote Sensing & Geographical Information System
- Using of GIS Procedures for Minerals Exploration Revitalizing the Canal Resource Industry in Pakistan Through GIS and Remote Sensing
- GIS for Solid Waste Management (A Case Study of Gulberg Town Lahore)
- GIS As a Tool in Urban Planning (A Case Study of Neelab Town, Tarbela)
- GIS Software Arc Engine /VB.Net
- Cultural Heritage and Impact Assessment through GIS IN Walled City Lahore (A Case Study of UC-29)

#### **INTEREST**

- Spatial Analysis
- Water Shed Management/Modeling.
- Remote sensing.
- Digital Image Processing.

#### **SOFT WARE**

##### **GIS**

- Erdas Imagine / ER Mapper
- Arc GIS (Arc Hydro)
- Ilwis
- Global Mapper
- Auto CAD MAP

##### **Modeling**

- HEC GEO RAS
- GEO SFM
- HEC HMS
- HEC GEO HMS

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.*

Mohammad Hamid Ch.