

## PROFILE OF PROF. DR. ABDUL GHAFFAR

- Graduated from the University of the Punjab in 1984 and Ph. D degree from Edinburg University in 1995. Joined the Department of Geography in 1987 as Lecturer. Presently working as Professor and Chairman. Awarded O.R.S awards in three consecutive years 1992, 1993 and 1994 by the U.K. Government.
- Eight Ph. D Scholars supervised in the area of Environment Geography, Industrial Geography, Medical Geography, Land use studies and Applied GIS & RS in climatic change, Air and Water pollution related research. He was produced a large number of Research Publications in International and National Journals.
- He is President of Pakistan Geographical Association and Chairman National Committee on Geography in Pakistan of International Geographic Union. Member of Board of Studies in Geography in various Universities and Member of a large number of International Geographical Associations.
- More than 30 Publications in National and International Journals. Selected list given below.

## ACADEMIC PROFILE

(Prof. Dr. Abdul Ghaffar, Department of Geography, Punjab University, Lahore)

### PERSONAL

Name: Prof. Dr. Abdul Ghaffar

Designation: Professor



### Present Positions

- **Chairman**, Dept. of Geography
- **President**, Pakistan Geographical Association
- **Chairman**, National Committee on Geography in Pakistan, IGU
- **Editor**, Pakistan Geographical Review
- Member, American association of Geographers
- Member, House Allotment Committee, PU

### Experience

Teaching in Punjab University since 1987  
Chairman/ Head of Geography Department  
2006-2009, 2010-2015

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## EDUCATIONAL QALIFICATION

Degree	University	Field
PhD 1995	The University of Edinburgh Edinburgh, UK.	Geography (GIS)
M. Sc. 1984	The University of the Punjab, Lahore, Pakistan	Geography

## **AREA OF SPECIALIZATION**

- Geographical Information System (GIS) especially application of GIS in Land use and Environmental Studies
- Agricultural and Environmental Geography

## **Major Achievements as Teacher**

- Atlas of the Muslim World funded by HEC
- Successfully supervised 06 PhDs
- Supervised 16 M. Phils
- HEC approved supervisor since 2002
- President, Pakistan geographical Association
- Chairman, National Committee on Geography, International Geographical Union
- Member, Association of American Geographers
- Member, International Geographical Union
- Image Map of Lahore
- Map of Quaid I Azam Campus, Punjab University
- Map of Allama Iqbal Campus of Punjab University
- Win ORS Award of UK Government
- The impact of Agricultural changes on the Rural Landscape of South-East Scotland 1972-1990. Edinburgh University
- Land use changes in Lahore District (Under Completion). Punjab University
- Urban Explosion in Lahore Independent

## **Achievements As Chairman/ Head of Geography Department**

- Transformed Geography from Manual/ traditional to Digital Geography
- Introduced BS, MPhil/ MS and PhD programs
- Prepared PC-1 of Rs 200 Millions Geography for Mega Projects in 2007
- Curriculum devised and revised for BS, MPhil/ MS and PhD level at University and HEC level
- Regular Publication of Pakistan Geographical Review since 2006
- Made PGR on-line since 1942
- Made Library of Geography Department on-line
- Introduced computer technology in the Department
- Established three computer labs of Mapping, RS and GIS
- Better academic environment for Teachers and students
- Hold Two Geographical Conference in 2007 and 2013 at National level
- Organised a number of Workshops

## ● LIST OF RESEARCH PAPERS

### Foreign

1. **Bhalli, M. N., Ghaffar, A., (2015)**, "Use of Geospatial Techniques in Monitoring Urban Expansion and Land Use Change Analysis: A Case of Lahore, Pakistan". *Journal of Basic & Applied Sciences*, Vol 11, 265-273
2. **Riaz, O, Ghaffar A and Butt, I (2014)** Modelling Land Use Patterns of Lahore, (Pakistan) using Remote Sensing and GIS, *Global Journal of Science Frontier Research* Vol.XIV, Issue 1, Version 1, 25-30
3. **Ibtisam Butt and Ghaffar A (2012)** Ground water quality assessment near Mehmood Boti landfill, Lahore, Pakistan, *Asian Journal of Social Sciences & Humanities* Vol.1, No.2
4. **Parveen, N, Ghaffar, A, Shirazi, S. A. and Bhalli, N (2012)** A GIS based Assessment of heavy metals contamination in Surface Soil of urban parks: A case study of Faisalabad city, Pakistan, *Geography & Natural Disasters*, Vol 2, 1, 1-5
5. **Younes, I. and Gaffar, A (2011)**: Spatial Pattern of Noise Pollution in Lahore City . *Asian Journal of social sciences and Humanities*, Vol. 1 No. 2
6. **Ghaffar, A. (2005)**: Spatial Patterns of Air Pollution in Lahore, *Punjab Geographer*, 1, 1: 18-27
7. **Gulzar, F., Ahmad, F., Ghaffar, A. and Shirazi, S. A. (2003)**: Possibilities for range development and adaptation of forage shrubs in Cholistan, *African Journal of Range & Forage Science*, 20 (2): B5, 17
8. **Robinson, G. M. and Ghaffar, A (1997)**: Agri-environmental policy and sustainability. *The North West Geographer*, 1: 10-22.
9. **Ghaffar, A. and Robinson, G. M. (1997)**: Restoring the Agricultural Landscape: the Impact of Government Policies in East Lothian. *Geoforum*, 28, 2: 205-217.

### Local

1. **Minallah, M.N., Ghaffar, A. Rafique, M and Mohsin, M. (2016)** "Urban Growth and Socio-Economic Development in Gujranwala, Pakistan: A Geographical Analysis". *Pakistan Journal of Science*, (Vol. 68, No 2, June, 2016)
2. **Younes, I. Ghaffar, A., (2016)** "Spatial Patterns of Arsenic in drinking water supply system and its effects on human health in Lahore in 2015". *Pakistan Geographical Review*, June 2016 Vol.70.
3. **Shafqat, M. Ghaffar, A., Butt, I, Sajjad, M & Aslam, N (2013)** "Application of GIS in the Spatial Analysis of slums in Faisalabad, Pakistan". *Science International*, Lahore 25(3), 457-460
4. **Butt, I, Ghaffar, A. Zafar, T and Riaz, O (2013)**: Spatial Patterns of Dengue Outbreak in Lahore, *Pakistan Geographical Review*, 68, 2: 34-42
5. **Amir, S, Butt, I and Ghaffar, A. (2013)**: Occupational Structure of Slums Dwellers of Lahore, *Pakistan Geographical Review*, 68, 1: 1-15
6. **Younas, I and Ghaffar, A. (2013)**: The Impact of Road Traffic Noise Pollution on Hearing Loss of Population in Lahore City, 2011-2013, *Pakistan Geographical Review*, 68, 1: 16-26
7. **Bhalli, M. N., Ghaffar, A., Shirazi, S.A., (2012)**, "Spatio-temporal Patterns of Urban Growth in Faisalabad-Pakistan: A GIS Perspective". *Journal of the Research Society of Pakistan*, Vol 49, No 1, 115-134
8. **Bhalli, M. N., Ghaffar, A., Shirazi, S.A., (2012)**, "Remote Sensing and GIS Applications for Monitoring and Assessment of the Urban Sprawl in Faisalabad-Pakistan". *Pakistan Journal of Science*, Vol 64, No 3, 203-208
9. **Bhalli, M. N., Ghaffar, A., Shirazi, S.A., Anwar M. M. (2012)** "Change Detection Analysis of Land use by using Geospatial Techniques: A Case Study of Faisalabad- Pakistan" *Journal "Science International"*, 24, (4), 539-544
10. **Parveen, N, Ghaffar, A, Shirazi, S. A. and Bhalli, N (2012)** Spatial Distribution of heavy metals contamination in Road Side Soils of Faisalabad-Pakistan, *Pakistan Journal of Science*, Vol 64, 4, 309-315
11. **Amir, S, Butt, I and Ghaffar, A. (2012)**: Spatial Structure of Slums in Lahore, *Pakistan Geographical Review*, 67, 1&2: 34-43

12. **Kousar, S, Ghaffar, A and Shirazi, S. A.** (2012): Impact of Socio-Economic and Demographic characteristics on Fertility preferences among Women of Lahore City- A case study of Gulberg Town, *Pakistan Geographical Review*, 67, 1&2: 20-33
13. **Zafar, T, Butt, I and Ghaffar, A.** (2012): Specialization of Districts of Punjab and their Industrial Estates: Match or Mismatch, *Pakistan Geographical Review*, 67, 1&2: 44-62
14. **Butt, I, Ghaffar, A. and Younas, I** (2011): Assessment of Ground Water Quality near Municipal Dumpsite: A case study of Bagrian Village, Lahore, *Pakistan Geographical Review*, 66, 1&2: 48-59
15. **Saeed, A. and Ghaffar, A. (2011):** Desertification in Baluchistan Uplands and Water Resources Management: Govt. Perspective”, *Baluchistan Review—XXV*, 2, 75-88
16. **Riaz, O, Butt, I and Ghaffar, A.** (2011): Urban Change Detection of Lahore using Time Series of Satellite Images since 1972, *Pakistan Geographical Review*, 66, 1&2: 13-20
17. **Zafar, T, Butt, I, Ghaffar, A. and Dallerba, S** (2010): Uncovering Sectarian Concentration and Regional Diversification of the Districts of the Punjab, *Pakistan Geographical Review*, 65, 1&2: 24-40
18. **Younas, I, Butt, I and Ghaffar, A.** (2008): Geo-Strategic Importance of Gwadar Port for Pakistan and its Neighbouring Countries, *Pakistan Geographical Review*, 63, 1&2: 28-33
19. **Ghaffar, A.** (2007): Patterns of urban growth in the Punjab, 1951 - 1998, *Pakistan Geographical Review*, 62, 1: 31-44
20. **Ghaffar, A.** (2006): Assessing urban sprawl in Lahore by using RS/ GIS techniques, *Pakistan Geographical Review*, 61, 2: 99-102
21. **Ghaffar, A. (2005):** Monitoring Land Use Change: Use of Remote Sensing and GIS, *Pakistan Geographical Review*, 60, 1: 19-24
22. **Ghaffar, A. (2002):** Patterns of agricultural change in South East Scotland, 1972-88, *Journal Geographic*, (3, 2: 1-22)
23. **Ghaffar, A. (2002):** Patterns of Government Educational Institutions in Lahore, *Journal Geographic*, 4, 1: 1-7
24. **Ghaffar, A. (2002):** Structural changes in Scottish agriculture, 1972-88: a case study of South East Scotland, *Pakistan Geographical Review*, 57, 1&2: 23-43
25. **Ghaffar, A. (1999):** Application of GIS in Landscape Studies: A case study of Berwickshire in South East Scotland, *Journal Geographic*, 2, 2: 1-22
26. **Ghaffar, A. (1999):** Changes in Agricultural Landscape: Patterns in Lowlands and Uplands of South East Scotland, *Journal Geographic*, 2, 1: 49-60
27. **Malik, M. K. and Ghaffar, A. (1999-2000):** Remote Sensing: A tool for Geographer and Land use planners, *Pakistan Journal of Geography*, xi & x, 1&2: 21-30
28. **Ghaffar, A. (1998):** Monitoring the Agricultural Landscape: An integrated approach of Maps, Aerial Photographs and Geographic Information System. *Journal Geographic*, 1, 2: 45-57

## **RESEARCH SUPERVISION**

### **PhDs Successfully supervised**

- **Munawar Sabir**, Role of Media in creating awareness about population as an economic problem in Pakistan
- **Ahmad Saeed**, Inter-effects of Agricultural Development and Groundwater Deterioration: The Case of Pishin Valley, Balochistan, 1971-2005
- **Ibtisam Butt**, Spatial Patterns of Municipal Solid Waste and Its Impact on the Urban Environment of Lahore

### **HEC Indigenous Scholars**

- **Muhammad Shafqat Anjum**, HEC No. 041-1211720-Ss-210
  - Spatial patterns of Tuberculosis in the Punjab HEC
- **M. Tanveer Zafar**, HEC No. 041-212591-Ss-211
  - Development of Industrial Estates in the Punjab: A Spatio-Functional Analysis
- **Omar Riaz**, HEC No. 042-120555-Ss-273
  - Impact of Population Growth on Urban Expansion in Lahore

## **REVISION OF SYLLABI OF THE SUBJECT**

### **Member Board of studies:**

- Board of Studies of Geography, University of the Punjab, (Chairman)
- Board of Studies of Geography, G. C. University, Lahore
- Board of Studies of Geography, G. C. University, Faisalabad
- Board of Studies of Geography, Kinnaird College, Lahore
- Board of Studies of Geography, Peshawar University
- Board of Studies of Geography, Lahore College for Women University

### **Curriculum Revised:**

- Revision of curriculum of Geography at graduate level for HEC in 2006, 2009, 2014
- Revision of curriculum of Geography at graduate level for G.C.U. Lahore
- Revision of curriculum of Geography at graduate level for Kinnaird college. Lahore
- Revision of curriculum of Geography at post graduate level for G.C.U. Faisalabad
- Revision of curriculum of Geography at post graduate level for Punjab University
- Design of curriculum of Geography at M. Phil level for Punjab University
- Design of curriculum of Geography at post PhD level for Punjab University
- Design of curriculum of Demography at post MS level for Punjab University
- Design of curriculum of G I Science at post MS level for Punjab University

## **SEMINARS/ WORKSHOPS/CONFERENCES**

### **Conducted at university level**

- 14<sup>th</sup> All Pakistan Geographical Conference March, 2013
- Workshop on Disaster Risk Management at PU, 10-12 April 2011
- 12<sup>th</sup> All Pakistan Geographical Conference March, 2007

### **Participated and presented paper at University/ Department level**

- In service Teachers training workshop for Geography Teachers, UGC Lahore, 2-7 October 2000
- Workshop for In-service college teachers at UGC, Lahore, 2-7 October 2000
- Workshop at HEC, Lahore March 2004
- Workshop for college teachers at HEC, Lahore, September 2004

## **SEMINARS/ WORKSHOPS/CONFERENCES**

### **Attended and presented paper At International Level**

- International Conference on GIS Applications to Resource Management and Environment Planning, At NUST, Islamabad from February 17<sup>th</sup> to 18<sup>th</sup> 1998.
- **Gulzar, Farhat; Ghaffar, Abdul; Ahmad, Farooq; Shirazi, S. Ali (2003), "Possibilities for range development and adaptation of Australian forage shrubs in Cholistan",** Proceedings of VII International Rangelands Congress, 26 July to 1 August 2003, Durban, South Africa.

### **Attended At International Level**

- 33<sup>rd</sup> International Geographical Congress /Conference, Beijing China from 21<sup>st</sup> August to 25<sup>th</sup> August, 2016.
- International Conference on aerial Photogrammetry and Remote Sensing, Department of Geography University of Glasgow, 10-12, March 1992

### **Attended At National Level**

- 14<sup>th</sup> All Pakistan Geographical Conference, At Dept. of Geography, Punjab University, Lahore March 5 to 7th, 2013
- 13<sup>th</sup> All Pakistan Geographical Conference, At Dept. of Geography, Karachi University, Karachi December 4 to 6th, 2009
- 12<sup>th</sup> All Pakistan Geographical Conference, At Dept. of Geography, Punjab University, Lahore March 19 to 21, 2007
- 11<sup>th</sup> All Pakistan Geographical Conference, At Dept. of Geography, Punjab University, Lahore December 21<sup>st</sup> to 24th, 2003.
- 10<sup>th</sup> All Pakistan Geographical Conference, At Bara Gali (NWFP) from August 21<sup>st</sup> to 25th, 1999.
- 9<sup>th</sup> All Pakistan Geographical Conference, At Islamabad from Dec 26th to 30<sup>th</sup> 1997
- 8<sup>th</sup> All Pakistan Geographical Conference, At Peshawer from April 7<sup>th</sup> to 9th 1996.

## **DEPARTMENT OF GEOGRAPHY**

### **MISSION, GOAL AND ACHIEVEMENTS**

To provide the quality education in the field of Geography in order to equipped the students of Geography with the latest and advanced techniques and matters of research for teaching.

The primary goal of the Department of Geography is to provide students a comprehensive understanding of the range and depth of this scientific discipline which encompasses the human and physical domains of geography. This understanding is intended to enable our students to achieve their full potential as skilled professionals and well-qualified technical employees in a diverse range of companies and governmental organizations, and to become effective teachers and community leaders. Our programs enable students to become informed users of a range of technologies such as Geographical Information System Remote Sensing and Land surveying to Demography as well as social & economic geography. This understanding will promote successful careers, active life-long learning, and an ability and desire to contribute positively to society.

- The pioneer department in Pakistan was established in 1944
- The pioneer department commenced Ph. D regular programme in 2001.
- The pioneer department introduced BS Geography programme in 2006
- The pioneer department introduced M. Phil. programme in 2003
- The pioneer department introduced M.Sc GIS programme and established GIS department in 2000.
- The pioneer department introduced M.S Applied Geographical Information Sciences and Remote Sensing in 2015.