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Department of Geography,  
University of the Punjab,  
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Date of Birth: 15-08-1963



### Academic Qualifications

University of the Punjab, Lahore. Pakistan – **M.Sc.** Geography

University of Karachi, Karachi. Pakistan – **Ph.D.** “*Urban development and its impact on the vegetation of Lahore*”

Humboldt University, Berlin. Germany – **Post Doctorate** “*On the structure, use and perception of urban green spaces: A social-ecological study in rapidly urbanizing landscape of Lahore*”

### Experience: -

Associate Professor Department of Geography, University of the Punjab, Lahore

Secretary National Curriculum Revision Committee of Geography, Pakistan

General Secretary Pakistan Geographical Association, Lahore, Pakistan

General Secretary Old Geography Students Association, Lahore Pakistan

Secretary, Society for Urban Ecology (SURE)-South Asia Chapter, Karachi, Pakistan

### Academic Projects: -

1. “Intra-urban Residential Mobilities in Lahore-Pakistan” funded by Punjab University, Lahore
2. “Remote Sensing and GIS Applications in Land Cover and Land Use Changes in Lahore” funded by Punjab University, Lahore
3. “GIS Development, Deployment of Software and Training Project” funded by the World Bank.
4. “Assessing the Effect of Different Land Cover and Land Use on forming of the Urban Heat Islands in Lahore” funded by Punjab University, Lahore
5. Assessment, analysis and management of meteorological drought in Punjab-Pakistan: A study of some affected districts funded by PU,Lahore (under progress)

### Academic Memberships: -

1. Member, Population Association of Pakistan
2. Member, Association of American Geographers(AAG)-USA
3. Member, Council of Social Sciences (COSS) –Pakistan
4. Life Member, Association of Punjab Geographers-India
5. Life Member and Secretary, Pakistan Geographical Association
6. Member, Asian Population Association –Thailand

7. Member, Mountain Forum-UK
8. Member, Geographical Association Network-UK
9. Member, Editorial Board of the *Geosciences*- <http://journal.sapub.org/GEO> USA
10. Member, International Advisory Committee, Deenbandhu Chhotu Ram Chair for Sustainable Development Deenbandhu Chhotu Ram, University of Science and Technology, Murthal, Sonapat, Haryana, INDIA
11. Member, Editorial Board of “Advances in Geological and Geophysical Engineering” (AGGE) <http://www.academicpub.org/agge/>. USA
12. Member, Editorial Advisory Board of “Scientificsindh” Annual Research Journal, Shah Abdul Latif University, Khairapur, Sindh-Pakistan

#### **Academic Writings: -**

1. A Textbook of Geography (Urdu/English) Class VIIth, National Book Foundation, Islamabad 2013
2. A Textbook of Geography (Urdu/English) Class VIIIth, National Book Foundation, Islamabad 2014
3. A Text Book of Social Studies/Geography (Urdu/English) Class IVth, Punjab Curriculum and Textbook Board, Lahore 2015
4. A Text Book of Social Studies/ Geography (Urdu/English) Class Vth, Punjab Curriculum and Textbook Board, Lahore 2015

#### **Research Work/Publications: -**

##### **International:**

1. **Shirazi, S.A** and Kazmi, S.J.H (2016): “Analysis of Socio-environmental Impacts of the Loss of Urban Trees and Vegetation in Lahore, Pakistan: A Review of Public Perception”, *Ecological Processes*, 5(1), 1-12 DOI: 10.1186/s13717-016-0050-8 Springer Open .ISSN 2192-1709 <http://link.springer.com/article/10.1186/s13717-016-0050-8>
2. Sajjid.S.H, Blond N, Clappier ,A Raza A, **Shirazi, S.A** and Shakrullah K (2010): “The preliminary study of urbanization, fossil fuels consumptions and CO<sub>2</sub> emission in Karachi” *African Journal of Biotechnology* Vol. 9(13), pp. 1941-1948, 29 March, 2010. Available online at <http://www.academicjournals.org/AJB> ISSN 1684–5315 © 2010 Academic Journals
3. **Shirazi, S.A** and Hussain M.S (2009): “Trends and Patterns of Climatic Research in Pakistan: An Overview of the Research Published in Pakistan Journal of Meteorology”. *Journal of Climate Research*, Vol. 4, No.2(Series No.7), August 2009 .ISSN 1975-6151, KU 128-143 Climate Research Institute, Seoul-South Korea
4. Sajjid.S.H, **Shirazi, S.A**, Khan M.A and Raza A (2010): “Urbanization effects on temperature trends of Lahore during 1950-2007” *International Journal of Climate Change Strategies and Management*” Vol.1 Issue-3 pp.274-281 <http://www.emeraldinsight.com/10.1108/17568690910977483>

5. **Shirazi, S.A** and Hussain M.S (2009): “The Impact of Climate Change with Different Field of Studies: A Comprehensive Review”. **Journal of Climate Research**, Vol. 4, No.1(Series No.6), February 2009 .ISSN 1975-6151,KU 30-41Climate Research Institute, Soul-South Korea

6. Mangat,H.S and **Shirazi, S.A** (2006): “*Old Punjab: New Facts (Introductory Note)*”.**Punjab Geographer**, Vol. 21, No.2 October 2006 113-116, A Journal of the Association of Punjab Geographers, India

7. **Shirazi, S. Ali; Ahmad, Farooq Ali, Zulfiqar; Gulzar, F., Farooq Sumaira ;** (2004) “Soil Classification and Micromorphology: A Case Study of Cholistan Desert” (Proceedings of the 12<sup>th</sup> international Meeting on Soil Micromorphology Adana-Turkey, 20-26 September, 2004

8. Gulzar, F., Ahmad, F., Ghaffar, A. and **Shirazi, S. A.** (2003): “*Possibilities for Range Development and Adoption of Australian Forage Shrubs in Cholistan*” African Journal of Rangeland & Forage Science Vol. 20 (2) 2003:1190-1192([www.ingentaselect.com](http://www.ingentaselect.com))

**National: -**

1. S.Rathore,S.R Ahmad and **Shirazi S.A** (2016). “*Use of the Suitability Model to Identify Landfill Sites in Lahore-Pakistan*”. **Journal of Basic & Applied Sciences**, 2016, 12, pp.103-108 <http://dx.doi.org/10.6000/1927-5129.2016.12.16> (Y category-HEC recognized)
2. S.Rathore,S.R Ahmad and **Shirazi S.A** (2015). “*Application of GIS based Model in Landfill Site Selection: A Case Study of Lahore, Pakistan*”. **Pakistan Journal of Science**, Vol. 67 No. 4 Dec., 2015 pp.359-364 Lahore (Y category-HEC recognized)
3. Shakrullah K , **Shirazi S.A**, and Sajjad H. S (2015). “*Spatio-Temporal Analysis of land Cover Changes of Dhaka City in Bangladesh*”. **Pakistan Journal of Science**, Vol. 67 No. 4 Dec., 2015 pp.413-418 Lahore (Y category-HEC recognized)
4. Zia S., **Shirazi S.A**, Bhalli M. N and S. Kausar (2015) “*The Impact of Urbanization on Mean Annual Temperature of Lahore Metropolitan Area, Pakistan*”. Pakistan Journal of Science, Vol. 67 No. 3 Sept., 2015 pp.301-307 Lahore (Y category- HEC recognized)
5. Sajjad H. S, Batool R., Qadri,T **Shirazi S.A**, and Shakrullah K., (2015) “*The Long-Term Variability in Minimum and Maximum Temperature Trends and Heat Island of Lahore City, Pakistan*” Journal the “**Science International**”, ISSN 1013-5316; CODEN: SINTE 8Sci.Int.Lahore,27(2),1321-1325,2015 (Z category- HEC recognized)
6. Sajjad H. S, Sadaf H., **Shirazi S.A**, Shakrullah K., Shahzad K., Batool R and Qadri,T (2015) “*Spatial Variability of Urban Heat Island of Sargodha City in Pakistan*” **Journal of Basic & Applied Sciences**, 2015, 11, pp.278-285(Y category-HEC recognized)
7. Sajjad H.S,Blond. N, Batool.R, **Shirazi S.A**, Shakrullah,K. and Bhalli,M.N(2015) “*Study of Urban Heat Island of Karachi by Using Finite Volume Mesoscale Model*” **Journal of Basic & Applied Sciences**, 2015, 11, pp.101-105(Y category-HEC recognized)
8. Sajjad H. S, Sadaf H, **Shirazi S.A**, Shakrullah K, B Rabia and and Saeed B (2014) “*Impact of Urban Evolution on Land-Use Change of Sargodha City in Pakistan*” **Journal of Science & Technology**, University of Peshawar, Peshawar Vol.38 No.1, 2014 pp.1-8, (Y category-HEC recognized) <http://journals.uop.edu.pk/papers/Impact%20of%20Urban%20Evoluton.pdf>

9. R. Alam, **Shirazi S.A**, M. N. Bhalli and S. Zia (2014). “*Spatial Distribution of Urban Green Spaces in Lahore, Pakistan: A Case Study of Gulberg Town*”. **Pakistan Journal of Science**, Vol. 66 No. 3 Sept., 2014 pp.277-281 Lahore (**Y category-HEC recognized**)
10. Raza S.M,**Shirazi.S.A** (2014) “Temporal Analysis of Urban Development in Sargodha: A Geospatial Perspective using Landsat Time Series Data” *Pakistan Geographical Review* Vol.69 No.1 June,2014 pp. 15-27 (**Y-category-HEC recognized**)
11. Raza S.M,**Shirazi.S.A** (2014) “Use of Multi-temporal satellite data for monitoring Land use patterns in Sargodha-Pakistan” *Pakistan Geographical Review* Vol.69 No.2 Dec.,2014 pp. 80-92(**Y-category-HEC recognized**)
12. Zia S., **Shirazi S.A**, Bhalli M. N and Alam, R (2014). “*Temporal Analysis of Temperature Trends in the Metropolitan Area of Lahore, Pakistan*”. **Pakistan Journal of Science**, Vol. 66 No. 1 Jan., 2014 pp.83-87 Lahore (**Y category- HEC recognized**)
13. Raza S.M,**Shirazi.S.A** (2014) “*Temporal Analysis of Urban Development in Sargodha: A Geospatial Perspective using Landsat Time Series Data*” *Pakistan Geographical Review* Vol.69 No.1 June,2014 pp. 15-27 (**HEC recognized**)
14. Raza S.M,**Shirazi.S.A** (2014) “*Use of Multi-temporal satellite data for monitoring Land use patterns in Sargodha-Pakistan*” *Pakistan Geographical Review* Vol.69 No.2 Dec.,2014 pp. 80-92 (**HEC recognized**)
15. **Shirazi, S.A** and Kazmi, J. H (2014): “*Analysis of Population Growth and Urban Development in Lahore-Pakistan using Geospatial Techniques: Suggesting some Future Options*” ,**Journal of South Asian Studies**,Vol.29 No.1 January-July,2014 pp. 269-280, Centre for South Asian Studies, University of the Punjab, Lahore (**Y category- HEC recognized**)
16. Bhalli, M. N., Ghaffar, A., **Shirazi, S.A.**, and N. Parveen. (2013) “*An Analysis of the Normalized Difference Vegetation Index(NDVI) and its Relationship with the Population Distribution of Faisalabad-Pakistan*” **Pakistan Journal of Science**, Vol. 65 No. 4 Dec., 2013 pp.496-502 Lahore (**Y category- HEC recognized**)
17. Mirza, A. I., Kazmi J.H, and **Shirazi, S.A.**, (2013) “*Identification and Analysis of a Sustainable System of Road Traffic Pattern in Lahore City*”, **Pakistan Journal of Science**, Vol. 65 No. 3 Sept., 2013 pp.420-425 Lahore (**Y category- HEC recognized**)
18. Mirza, A. I.,Kazmi J.H, and **Shirazi, S.A.**, (2013): “*Spatio-periodic Monitoring and Analysis of Atmospheric Sulphur Dioxide(CO<sub>2</sub>) in the Metropolitan Areas of Lahore-Pakistan*” **Pakistan Journal of Science**, Vol. 65 No. 1 March, 2013 pp.83-89 Lahore (**Y category- HEC recognized**)
19. **Shirazi, S.A** and Kazmi, J. H (2013): “*Appraisal of the Change in Spatio-temporal Patterns of LULC and its Impacts on the Vegetation of Lahore, Pakistan*” “. “**Pakistan Vision**” Vol.14 No.1 June, 2013 pp.25-44, Journal of Pakistan Study Center, University of the Punjab, Lahore (**Y category- HEC recognized**)
20. 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 the “Science International”*, ISSN 1013-5316; CODEN: SINTE 8Sci.Int.Lahore,24(4),539--546,2012 (**Y category-HEC recognized**)
21. Kousar,S., Ghaffar, A., **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**, Vol.68, No.2,Dec. 2012 pp.23-37.Deprtment of Geography, University of the Punjab, Lahore (**Y category- HEC recognized**)

22. Praveen, N., Ghaffar, A., **Shirazi, S.A.**, Bhalli M.N. (2012) “*Spatial Distribution of Heavy Metal Contamination in Road Side Soils of Faisalabad-Pakistan*” **Pakistan Journal of Science**, Vol. 64 No. 4 December, 2012 pp.309-315  
Lahore (Y category- HEC recognized)
23. 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, Sept. 2012 pp.203-208. Pakistan Association for the Advancement of Science, II Shadman Market, Lahore(Y category- HEC recognized)
24. 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,January-June 2012 No.1 pp.115-134, Department of History, Punjab University, Lahore(Y category- HEC recognized)
25. **Shirazi S.A** (2012), “*Temporal Analysis of Land Use and Land Cover Changes in Lahore-Pakistan*”. “**Pakistan Vision**” Vol.13 No.1 June, 2012 pp.188-207, Journal of Pakistan Study Center, University of the Punjab, Lahore(Y category- HEC recognized)
26. **Shirazi S.A** (2012), “*Spatial Analysis of NDVI and Density of Population: A Case study of Lahore: Pakistan*” Journal the “**Science International**”24(3)323-328, 2012, Lahore Pakistan(Z category- HEC recognized)

#### Conferences attended and Presented Papers:-

1. 14<sup>th</sup> All Pakistan Geographical Conference, 05-07 March, 2013, Department of Geography, University of the Punjab-Lahore. Attended and presented paper titled “*An Analysis of Normalized Difference Vegetation Index (NDVI) and its Relationship with the Population Distribution of Faisalabad-Pakistan*”.
2. 14<sup>th</sup> All Pakistan Geographical Conference, 05-07 March, 2013, Department of Geography, University of the Punjab-Lahore. Attended and presented paper titled “*Impact of Socio-economic and Demographic Characteristics on Fertility Preference among Women of Lahore city: A Case Study of Gulberg Town*”.
3. 14<sup>th</sup> All Pakistan Geographical Conference, 05-07 March, 2013, Department of Geography, University of the Punjab-Lahore. Attended and presented paper titled “*Spatial Mapping and Geochemical Contamination Assessment of Heavy Metals in Urban Topsoil of Faisalabad-Pakistan*”.
4. 13<sup>th</sup> All Pakistan Geographical Conference, 21-23 Dec.2008, Department of Geography, University of Karachi-Karachi. Attended and presented paper titled “*Urbanization effects on temperature trends of Lahore during 1950-2007*”.
5. First Kashmir International Science Conference, 20-21 September, 2005 Muzaffarabad, Azad Kashmir. Attended and presented paper titled “*Gender Preference and Fertility Behaviour: A Case Study of Lahore-Pakistan*”.
6. First Kashmir International Science Conference, 20-21 September, 2005 Muzaffarabad, Azad Kashmir. Attended and presented paper titled “*Functional Analysis of Weekly Bazaars of Islamabad-Pakistan*”.
7. VIIth International Rangeland Congress, 26July-1 August 2003. Durban-South Africa. Attended a presented paper titled “*GIS Technique for Rain Water Conservation in Cholistan.*”
8. VIIth International Rangeland Congress, 26July-1 August 2003. Durban-South Africa. Attended a presented paper titled “*Possibilities for Range Development and Adoption of Australian Forage Shrubs in Cholistan.*”

9. National Conference on *Prospects and Problems of Mountain Systems of Pakistan, Bara Gali Summer Campus, University of Peshawar - August 2-6, 2003*. Presented paper titled “*Learning to Live with Landslide Hazards along Karakoram Highway*”.
10. 11<sup>th</sup> All Pakistan Geographical Conference, 21-24 Dec.2003, Department of Geography, University of the Punjab-Lahore. Attended and presented paper titled “*Gender Preference: A Determinant of Family Size in Lahore*”.
11. 11<sup>th</sup> All Pakistan Geographical Conference, 21-24 Dec.2003, Department of Geography, University of the Punjab-Lahore. Attended and presented paper titled “*Change in Child-Woman Ratio in Punjab-Pakistan: An Inter-District Analysis*”.

**Research Supervision (PhD & MPhil):-**

1	<b>Ms. Khadija Shakrullah</b> PhD	“ Assessing the impacts of Urbanization on Urban Climates of South Asian Cities: A Spatio-Temporal Analysis”
2	<b>Ms. Summira Kausar</b> MPhil	“Socio-demographic Characteristics of Women and Fertility Preferences in Lahore: A Case Study of Gulberg Town”
3	<b>Ms. Sahar Zia</b> MPhil	“Causes and Consequences of Temporal Temperature Changes in Lahore City 1962-2012”
4	<b>Ms. Rizwana Alam</b> MPhil	“ Spatial Distribution and Functional Analysis of Urban Green Spaces of Lahore: A Case of Gulberg Town ”
5	<b>Ms. Aneela Arshad</b> MPhil	“Spatial Patterns of Rural-Urban Fertility Trends and Differentials in the Punjab: A Case Study of Toba Tek Singh”
6	<b>Ms. Saba Akram</b> MPhil	“Urban Expansion and Loss of Agriculture Land in Multan using Geospatial Techniques”
7	<b>Ms. Ayesha Ali</b> MPhil	“Monitoring Spatial Distribution of Floral Species of Lahore using Geospatial Techniques”
8	<b>Ms. Sarwat Shahzadi</b> MPhil	“Role of Urban Forests toward the Provision of Ecosystem Services as Perceived by the Visitors: A Case Study of Jallo Park, Lahore”
9	<b>Mr. Muhammad Basit</b> MPhil	“Monitoring Urban Heat Island of Lahore: A Climatological Study”
10	<b>Ms. Sana Rathore</b> MPhil	“Landfill Site Selection for Solid Waste in Lahore using Geospatial Techniques”

### **BS/M.Sc. Theses/Research Reports:-**

1. Functional Analysis of the Selected Periodic Markets of Islamabad by Ms.Saima Iffat
2. An Analytical study of Retail Activity in the CBD of Abbottabad-2000 by Ms.Mariam Mir
3. Demographic Appraisal of District Mansehra-NWFP: A Case Study of Village Datta by Mr.Suhail Attique
4. Demographic Comparison of Some Selected Villages of F.C.T.I & Haripur (NWFP)-2005 by Ms.Shumaila Khaild
5. Demographic Conditions in Saidpur-Islamabad 1997 by Ms.Lubna Khadim
6. Commercial Analysis of Periodic Markets in Islamabad by Ms.Ayesha Moien
7. Functional Analysis of the Selected Periodic Markets of Islamabad-2001 by Ms.Ibtisam Butt
8. A Study of Gender Geography with special Reference to Population Geography by Ms.Sara Fatima
9. Analysis of Family Size in Punjab: A Case Study of Lahore by Ms.Rabia Nastran
10. The Influence of Temperature and Precipitation on the Agriculture of Punjab by Farheen Zahid
11. Mortality patterns in Lahore district and its effects on population growth by Ms.Talat Najmi
12. Patterns of Rural Population Change in Punjab by Ms.Zareen Jameel
13. Population growth and agricultural change in Punjab-Pakistan by Mr.Tanveer Hasan
14. Fertility Preferences among Women: A Case Study of Gujranwala City by MsKhadaija Shakrullah
15. Fertility Levels and Patterns in Pakistan: An Inter -District Analysis by Ms.Mariam Mir
16. Patterns of Population Growth and Distribution in the Pakistan 1981-98 by Mr.Kashif Mahmood
17. A Geographical Study of Cultivation of Rice in Sheikhpura District (Punjab)-1985-95 by Ms.Uzma Sleenem Chishti
18. Age at Marriage and its Impact on the Population of Lahore-A Case Study of Few Localities of Lahore by Ms. Nosheen Halim
19. Spatial Inequalities in Population Distribution and Growth in Punjab by Districts 1972-81 by Ms.Sadia Sadiq
20. Regional differences in the Production of cotton in the Punjab-Pakistan 1988-98 by Ms.Nazia Noreen
21. Demographic Profile of Abbottabad-N.W.F.P- A Case Study of Village Dehri-2009 by Ms. Uzma Saeed
22. Demographic Profile of Abbottabad-N.W.F.P -A Case Study of Banda Khair Ali Khan - 2009 by Ms.Sadia Siddique
23. Demographic Profile of Abbottabad-N.W.F.P -A Case Study of Village Neelay Paier-2009 by Ms. Zunaira Riaz
24. Urban Tourisms in Murree Hills-2011 by Mr.Shaoor Ali Akbar
25. Demographics of District Abbottabad (KPK): A Case Study of Village Dalola- 2012 by Ms.Amina Ishaq (MSc Regular)
26. A Demographic Survey of Village Summ, District Manshera, 2012 by Ms.Ruqaya Rasheed (MSc Replica)

27. A Demographic Study of Village Banda Khair Ali Khan Distt. Abbottabad 2012 by Mr. Sajid Ali (BS)
28. A Demographic Study of Village Masoot, Thesil Murree, 2013 by Ms. Maria Imtiaz (MSc Regular)
29. A Demographic Study of Village Masoot, Thesil Murree, 2013 by Mr. Shah Jhan Doltana (MSc Replica)
30. A Demographic Study of Village Masoot, Thesil Murree, 2013 by Ms. Rabia Naseem (BS)
31. Demographic Profile of some selected localities of Khanspur (District Abbottabad), 2015 by Muhammad Abbas (MSc)
32. A Demographic Survey of the Residential Colony, University of the Punjab University, New Campus, Lahore, 2016 by Amina Ahsan (MSc Regular)
33. A Demographic Survey of the Residential Colony, University of the Punjab University, New Campus, Lahore, 2016 by Muhammad Saleem (MSc Replica)
34. A Demographic Survey of the Residential Colony, University of the Punjab University, New Campus, Lahore, 2016 by Faiza (BS)

**Current Research Interest: -**

Geography, Climatology/Climate Change, LULC Studies, Urban Ecology and Population Geography