

FAIZA SARWAR (Ph.D)

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CAREER SUMMARY:

Faiza Sarwar has 6 years' teaching experience in Academia. Currently, teaching as Assistant Professor, Geography. Her professional career has included a vast experience in conducting several GIS and RS workshops for professionals and students. Also, her six research articles are published in national and international reputed journals. Her teaching expertise is in field of Geography, Social Sciences, GIS and RS. She has taught in Cambridge School as Senior Teacher. She is also professional and academic member of renowned governmental and non-governmental organizations. During her professional career, she attended and participated in various workshops and conferences.

WORK EXPERIENCE:

Assistant Professor (TTS) Dept. of Geography, University of the Punjab, Lahore, Pakistan. *2018 – Present*

Responsibilities:

- Demonstrate understanding of GIS system and its applications in various fields of studies
- Assign research projects to M.Phil and Ph.D scholars and supervised them.

Assistant Professor Department of English, University of the Punjab, Lahore, Pakistan.

Responsibilities as visiting faculty:

March 2019- June 2019

- Taught Introduction to Geography to BS

Assistant Professor Department of Economics, University of the Punjab, Lahore, Pakistan.

Responsibilities as visiting faculty:

Jan2019- May2019

- Taught Economic Geography to BS.

Assistant Professor Institute of Cultural and Social Studies, University of the Punjab, Lahore, Pakistan.

Responsibilities as visiting faculty:

2017- 2018

- Taught GIS to M.Sc (Development Studies)

Assistant Professor Dept. of Geography, University of the Punjab, Lahore, Pakistan.

2015- 2017

Contract Teacher- BPS-19

- Courses Taught:

S.no	Courses	Class
01	Principles of Satellite Remote Sensing (SRS)	BS
02	Foundation of Geographic Information Science (GIS)	BS
03	Cartography	BS
04	South Asia (Region)	BS
05	Techniques in RS & GIS (Lab)	BS/MPHIL

06	Cartography and Geodesy	MS (RS/GIS)
07	Spatial Database Management	MS (RS/GIS)
08	Digital Image Processing	MPhil & PhD
09	Advanced techniques in RS/GIS	PhD

Research Coordinator SPARK (Spatial Analysis and Research Lab of Karachi University) *2011- 2014*
M.S/Ph.D. SPARK, Department of Geography, University of Karachi.

- Research domain: GIS (Geographic Information Science) & SRS (Satellite Remote Sensing)

Senior Cambridge Teacher Chiniot Islamia School & College, Karachi, Pakistan *2009-2011*

Responsibilities:

- Taught CIE Syllabus; **Environment of Pakistan** to O' Level (Grade IX- X)

PUBLICATIONS:

- 1. A GIS Based Analysis of Essential Creeks Habitat for the Evaluation of Common Marine Species at the Coast of Sindh, Pakistan.**
Sarwar, F, Kazmi, J and Shaikh, S. A GIS Based Analysis of Essential Creeks Habitat for the Evaluation of Common Marine Species at the Coast of Sindh, Pakistan. Iranian Journal of Fisheries Sciences (IF 0.49) Accepted to be published in March 2020.
- 2. Evaluating Spatial Patterns of Urban Green Spaces in Karachi, Pakistan through Satellite Remote Sensing Techniques.**
Batool, R., Sarwar, F and Javid, K (2019). Evaluating Spatial Patterns of Urban Green Spaces in Karachi, Pakistan through Satellite Remote Sensing Techniques. Proceedings of the Pakistan Academy of Sciences: A Physical and Computational Sciences 56(1): 53-60
- 3. Land-Cover Change Analysis and Impacts of Deforestation on the Climate of District Mansehra, Pakistan.**
Amjad, D., Kousar, S., Aslam, R.W and Sarwar, F (2019). Land-Cover Change Analysis and Impacts of Deforestation on the Climate of District Mansehra, Pakistan. Journal of Biodiversity and Environmental Sciences Vol 14 (6): 103-113
- 4. Impact assessment of Smog Pattern in Lahore Using Remote Sensing and GIS.**
Jahan, Z; Sarwar, F and Younas, I (2019). Spatial Patterns of Smog in Lahore using RS and GIS Techniques. International Journal of Economic and Environment Geology Vol 10(2) 55-59
- 5. Seasonal and Spatial Growth Patterns of Shrimps Collected from Some Selected Creeks of Sindh, Pakistan.**
Sarwar, F and Kazmi, J. H. (2014). Seasonal and Spatial Growth Patterns of Shrimps Collected from Some Selected Creeks of Sindh, Pakistan. Journal of Basic and Applied Science. Vol 10, pp. 366- 376.
- 6. Development of Spatial E-Flora of Karachi University Botanic Garden through Geospatial Technologies**
Bano, S., Sarwar, F., Kazmi, J. H and Afsar, S. (2014). Development of Spatial E-Flora of Karachi University Botanic Garden through Geospatial Technologies. Pakistan Geographical Review.

PROFESSIONAL TRAININGS CONDUCTED (Certificates are available):

Lead Instructor	Digital Image Processing
Lead Instructor	Foundation Course of GIS with the Introduction of PostgreSQL
Lead Instructor	Foundations of GIS
Lab Instructor	Advanced GIS Course
Lab Instructor	Foundations of GIS
Lead Instructor	Teacher's Training Workshop

PROFESSIONAL PROJECTS:

- Environmental and Social Studies Including Resettlement Frameworks, Land Use Plan for Thar Coal Fields, through GIS technologies, Mott Mac Donald Pakistan, 2013-Present
- Fisheries Resources Appraisal in Pakistan Project through GIS Inventory, Food and Agricultural Organization (FAO), 2012-2015
- National Coastline Assessment of Pakistan through RS Techniques, WWF, 2013.
- GIS Development Project for Sindh and Punjab Education Programs, World Bank, 2012-2013.

ACADEMIC PROJECTS:

- "E-flora of Karachi University Botanical Garden."
- "Monitoring the local distribution of selected birds at Safari Lake, Karachi university botanical garden and yaseen-a-bad bridge, Karachi, by using GIS and Remote sensing techniques."
- "Threatened species of reptiles in Pakistan."
- "Status and position of vertebrate biodiversity of Khunjerab National Park- A case of key species of study area."
- "Urban planning and policies- A study of Faisalabad city."
- Spatial Studies of Crimes by Using GIS Techniques in Karachi-A case study of Gulshan-e-Iqbal Town"
- "Evaluation and comparison of vegetation along Malir and Lyari River through SRS techniques."
- "An evaluation of environmental impacts of recharge dams in Gadap Konkar Basin"

LIST OF CONFERENCE PRESENTATIONS:

- **Certificate of Participation**, awarded for the Valuable Contribution as **Session Moderator** in First South Asian Regional SURE conference 2017 held at the Department of Geography, University of Karachi, Karachi, Pakistan from January 18th -19th, 2017.
 - Participated as a **Speaker** in the "**First South Asian Regional SURE Conference 2017**" "organized by Department of Geography, University of Karachi, Karachi, Pakistan on 18th-19th January 2017.
 - Participated as a **Resource Person** in a "**2nd Pakistan Urban Forum-1st South Asian Cities Conference**" paper titled "**A GIS based Analysis of Essential Creeks Habitat for the evaluation of Marine Fisheries at the Sindh Coast**" organized by The Directorate of Urban Policy and Planning, Planning and Development Department of Government of Sindh held on 9th-12th January 2014.
 - Participated as a **Resource Person** in a "**Second International Conference on Environmental Horizon (ICEH-2014)**" paper titled "**Development of Spatial E-Flora of Karachi University Botanic Garden through Geo-Spatial Technologies**" jointly organized by Department of Chemistry, University of Karachi and H.E.J Research Institute of Chemistry (ICCS) held on 1st -3rd January 2014.
- **Certificate of Appreciation**, awarded for the Valuable Contribution as a **Resource Person**, on a workshop "GIS Development Project for Sindh Education Program" in Sindh Education Reform Project, held at Sheraton Hotel, Karachi, November 8-12, 2013.
- **Certificate of Appreciation**, awarded for the Valuable Contribution as a **Resource Person**, on a topic/program "Building the Spatial Baseline for the Analysis of Ecosystem" in GIS Interpretation and Analysis Workshop for Environmental and Social Studies Including Resettlement Frameworks, Land Use Plan, Thar Coal Fields" held at Carlton Hotel, Karachi, March 20-21, 2013.
- **Certificate of Appreciation**, awarded for the Valuable Contribution and presentation in 14th All Pakistan Geographical Conference, paper titled "Development of Spatial E-Flora of Karachi University Botanic Garden through Geo-Spatial Technologies", held at Department of Geography, University of the Punjab, March 5-7, 2013.

- **Appreciation Certificate** awarded for presented on “Contemporary Applications of Geography in Pakistan- A case study of Post Graduate Research at the Department of Geography, in Diamond Jubilee Celebrations held at Department of Geography, University of Karachi from 5th – 8th November 2012.
- **Certificate of Appreciation** awarded for the participation and presentation on “Spatial Studies of Crimes by Using GIS Techniques in Karachi-A case study of Gulshan-e-Iqbal Town” in 13th All Pakistan Geographical Conference held at Department of Geography, University of Karachi, 2008.
- **Certificate of Appreciation**, from Pakistan Geographical Association (PGA) for Contributing as an Organizer of 13th All Pakistan Geographical Conference, held in Karachi from December 2008.

PROFESSIONAL EXPERIENCE:

- Attended a workshop “ **How to write and manage funded project**” on 18th June 2019 at Al-Razi Hall, University of the Punjab.
- Attended **PMD-RIMES Collaborative 7th Monsoon Forum Workshop** on 17th June 2019 at Avari Hotel, Lahore.
- **Certificate of Appreciation**, awarded for the Valuable Contribution to successfully organizing K-GIS Get-together & Dinner Party in Honor of *Meritorious Professor* Dr. Jamil H.Kazmi, held in Karachi, April 30, 2014.
- Three days national workshop on “**GIS Mapping through Drone Technology**” organized by Department of Geography, GC University Lahore in collaboration with University of Karachi, Karachi, 11th -13th April, 2018. Participated as a **Speaker** in the “**First International Conference on Emerging Trends in Earth and Environmental Sciences (ETEES 2017)**” organized by College of Earth and Environmental Sciences University of the Punjab, Quaid-e-Azam Campus, Lahore, Pakistan on 9th -10th March 2017.
- Participated in a seminar on “**World Water Day 2016, Better water, Better Jobs**” held on 22nd March 2016 at Department of Geography, University of Punjab, Lahore.
- Participated in a “**Second National Conference on Space Sciences (NCSS)**” Organized by Institute of Space and Planetary Astrophysics (ISPA), in collaboration with SUPARCO, HEC, PSF and PPS on 9th& 10th Oct, 2013.
- Participated in a First Annual Conference of Pakistan, **Aquaculture & Fisheries Society on Aquaculture & Fisheries Development, Opportunities & Challenges**”. From KU-ORIC, USDA-FAS, FDB, FPCCI held at National Institute of Oceanography (NIO), Karachi on 16th -17thSeptember, 2013.
- Participated in a **Regional Workshop, titled “A Regional Perspective for Assuring Sustainable Marine Resources**” organized by WWF & European Union, with the collaboration of CCAP held at PC, Karachi on 17-19 January, 2013
- Participated in a “**First National Conference on Space Sciences (NCSS)**”Organized by ISPA(KU), with the collaboration of SUPARCO and Sir Syed University of Engineering and Technology on (8th& 9th Oct,2012)
- Participated in a “**Project Management Conference**” One day Session on 1st September 2012, organized by the Youth Training Program and supervised by the Marketing Unit-ICCBS, University of Karachi.
- Participated in a Professional Development Video Conference course in “**Cambridge O’level Pakistan Studies Paper II**” conducted by University of Cambridge International Examinations In association with British Council Pakistan 2010.
- Participated in a “**Becoming an Effective Teacher**” held on March 2010, by Educational Research Institute.

- Participated in a “**Understanding Child Psychology**” held on February 2010, by Lenny’s English Language and Training Centre.
- Participated in a “**How to become an Effective, Skillful and Competent Teacher**” held on March 2010, by Lenny’s English Language and Training Centre.
- Participated in an “**Effective Lesson Planning**” held on December 2009, by Lenny’s English Language and Training Centre.

CONTINUING EDUCATION:

- Attended three days workshop on **Planning, Execution and Successful Accomplishment of Research Degrees** organized by Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE) University of Karachi, Karachi, 24-26 April, 2014.
- Attended three days training workshop on **Data Analysis Using SPSS-18** organized by Sardar Yasin Malik Professional Development Facilities, University of Karachi, 20-22 March, 2014.
- Attended five days **Advanced Geographic Information Science (GIS)** organized by Spatial Analysis Research Lab. Of Karachi University & GIS Department of SSGC, 21-26 September, 2013.
- Attended three days **Foundation of Geographic Information Science (GIS)** organized by Spatial Analysis Research Lab. Of Karachi University & GIS Department of SSGC, 7-9 July, 2013.
- Attended two days **Capacity Building Workshop** on “**Climate Change: Making Karachi a Climate Change Resilient City**” organized by Shehri Citizens in collaboration with the Friedrich Naumann Foundation, 7-8 June, 2013, Hotel Sheraton, Karachi.
- Participated in a **Regional Workshop, titled “A Regional Perspective for Assuring Sustainable Marine Resources”** organized by WWF & European Union, with the collaboration of CCAP held at PC, Karachi on 17-19 January, 2013.
- Attended the training course of seven days on 10th Training workshop on “**Protected Areas of Pakistan-2012**” held at the Department of Zoology, University of Karachi.
- Attended the training course of seven days on 9th Training Workshop on “**Wetland Conservation and Managemnet-2012**” held at the Department of Zoology, University of Karachi.
- Attended the training course on “**Sustainable water Resource Management**” held on February, 2012 jointly organized by Institute of Environmental studies, University of Karachi and University of Innsbruck, Austria.
- Attended the training course of seven days on “**An Introduction to Statistical Analysis Techniques & Tools**” held on November 2011 in Arts faculty computer Lab.
 - Attended the training course on “**How to Write A Winning Scientific Research Proposal?**” held on September 2011, organized by L.E.J. National Science Information Center under the Virtual Education Project Pakistan (VEPP) and Higher Education commission, Pakistan.

MEMBERSHIPS:

- Society of Urban Ecology (SURE), University of Salzburg, Austria
- Professional Executive Member, K-GIS Society, Karachi, Pakistan
- Pakistan Aquaculture & Fisheries Society, Pakistan
- WWF- Membership
- Student Member, Pakistan Geographical Association, Pakistan (PGA)

THESIS EVALUATION/VIVA VOCE:

- Evaluation of the Dissertation titled “**Epidemiological Study of Hepatitis B & C and Its Spatio-Temporal Distribution in Lahore Metropolitan City in GIS Perspective.**” by Zainab Shah, MS RS/GIS - 2016, Department of Geography, GC University Lahore.

- Evaluation of the Dissertation titled *“Impacts of Hudiara Drain Water on Landuse of Southern Metropolitan Area of Lahore.”* by Muhammad Jabbar, MS RS/GIS- 2016, Department of Geography, GC University Lahore.

QUALIFICATION:

- **Ph.D** in Geography from University of Karachi **2015**
Title of Research: **Monitoring the Creek Habitats of Marine Fish Stock in Sindh Coast by using RS & GIS Techniques.**
- **M.Sc** in Geography from University of Karachi in **2008.1st Division**
- **B.Sc** (Hons) in Geography from University of Karachi in **2007. 1st Division**
- **Intermediate** (Pre-Medical), Board of Intermediate Education, Karachi, in**2004. 1st Division**
- **Matriculation** (Science), Board of Secondary Education, Karachi, in **2002 1st Division**

PERSONAL INFORMATION:

Marital Status: Married
Nationality: Pakistani
Interest: Reading, Travelling

REFERENCE:

- Reference will be provided.