

Curriculum Vitae

Prof. Dr. Samina Khalil

Name of Institution : Applied Economics Research Centre (AERC)
University of Karachi

Gender : Female

Designation : **DIRECTOR AERC**
Research Professor
Applied Economics Research Centre (AERC),
University of Karachi.

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Education

PhD: PhD in Environmental Economics and Management (2006-2010)
Institution: **Environment Department, University of York, U.K.**

MPhil: (Master of Philosophy) in Economics of Developing Countries
Institution: **University of Cambridge, U.K.**
Subjects: Major - Environmental and Natural Resource Economics
Subsidiary - Econometric Methods, Development Economics,
International Economic Integration

M.Sc. (Master of Science) in Economics
Institution: **Department of Economics, University of Karachi.**

B.Sc. (Bachelor of Science) Honors in Economics
Institution: **Department of Economics, University of Karachi.**

Doctoral Dissertation:

Title: *Policy Options to Control Industrial Water Pollution: A Case of Textile Processing Industry in Pakistan*

Certificate Course in Beahrs Environmental Leadership Program 2002 of UC Berkeley
Institution: Center for Sustainable Resource Development, University of California, Berkeley, USA.

Certificate Course (PhD level) in Environmental Policy Instruments and Designing for Environmental Protection and Natural Resource Management
Institution: Environmental Economics Unit, University of Gothenburg, Sweden.

Certificate Training Course in Environmental Education Focused on Fresh Water Environment ~ for Tertiary level Instructors under the auspices of *JICA (Japan International Cooperation Agency) of Government of Japan*
Institution: OSIC (Osaka International Center), ILEC (International Lake Environment Commission), UNEP office and Shiga University in Shiga Prefecture in Japan.

Certificate Training Course in Economics of Biodiversity and Ecosystem Services: Building Biodiversity and Ecosystem Services in to National Policy.
Institution: United Nations Environment Program (UNEP) and Kings College, University of Cambridge.

Certificate Training Course in Managing risk in the face of Climate Change.
Institution: Center for Development Innovation, Netherlands and Asian Development Preparedness Center, Bangkok, Thailand.

Academic Distinction

First division and A-Grade in Matriculation examinations (Equivalent to O-Level)
 Distinction in Physics, Mathematics and Chemistry
Institution: St. Lawrence's Girls School

First division and A-Grade in H.S.C. examinations (Higher Secondary Certificate) equivalent to A-Level
 Distinction in Physics and Mathematics
Institution: St. Lawrence's Girls College

First division in B.Sc. (Hons)
Institution: Department of Economics, University of Karachi

First division in M.Sc
Institution: Department of Economics, University of Karachi

Summary

I work as a Development Economist (by training) with PhD (Doctor of Philosophy) in *Environmental Economics and Management* from the University of York, UK & M.Phil (Master of Philosophy) in *Economics of Developing Countries*, from the Cambridge University, UK. I have done various courses (Ph.D. level) and got trained through training programs in Environmental Economics and Natural Resource Management from the University of Berkeley, USA, University of Gutenberg, Sweden and Shiga University, Japan. I am a winner of various scholarships / fellowships like Commonwealth Scholarship, Ford Foundation scholarship, SIDA (Swedish International Development Agency) scholarship, JICA (Japan International Cooperation Agency, Government of Japan) scholarship and

fellowships from the Government of France, Higher Education Commission of Pakistan and East West Centre, Washington D.C. USA, for research work in the areas of Environmental Economics and Natural Resource Management Policy and Sustainable Development.

I have rich experience of teaching and research at the AERC, University of Karachi. I teach core courses like Microeconomics I and II, Development Economics and Environmental Economics to M.Phil (coursework) students. I also give lectures on special topics related to issues in Pakistan's Economy and a number of students are working on MPhil dissertations under my supervision. I have undertaken number of research studies in the capacity of Project Leader and Co-Project Leader, in collaboration with international agencies like World Bank, ADB, UNFPA, WWF, etc. I remained Incharge, Graduate Studies Programs of the AERC during 2005-06. Currently I am a member of Editorial Committee and Graduate Studies Committee of the AERC. I am a visiting faculty member of NIM (National Institute of Management) Karachi, Institute of Environmental Studies, University of Karachi and Department of Biotechnology, University of Karachi. I have worked as consultant to number of International Agencies like World Bank, IUCN, ADB, WWF etc. and have undertaken various research and policy oriented studies related to issues in Economic Development, Environmental & Natural Resource Management and Sustainable Development.

I am also trained in computer packages and handle IT related work efficiently. I hold membership of various academic and non-academic organizations like Rotary Club of Karachi Cosmopolitan, American Association of University Women (International), SANDEE (South Asian Network of Development and Environmental Economics), ISEE (International Society for Ecological Economics), USA, INSEE (Indian Society for Ecological Economics), Delhi, India, and PSDE (Pakistan Society of Development Economists), Islamabad. I am widely traveled and have been to many countries in Europe, Asia, Africa, Latin America and USA to attend academic conferences/seminars/workshops. There are number of publications on my record in refereed journal and articles in weekly magazines.

Awards and Fellowships

- Winner of Commonwealth Scholarship (Association of Commonwealth Universities) to study for MPhil at the ***Cambridge University (UK)***.1994
- Full Scholarship awarded by the SIDA (Swedish International Development Agency) to study PhD course on Environmental Economics and Policy Instruments and Designing at the ***University of Goteborg, Sweden*** in 2001.
- Full Scholarship awarded by the Ford Foundation USA, to study short course in Beahrs Environmental Leadership Program at the ***University of California, Berkeley, USA*** in 2002.
- Full scholarship awarded by the ***JICA (Japan International Cooperation Agency) of Government of Japan*** for Certificate Training Course in Environmental Education focused on Fresh Water in August 2004.
- Full Scholarship awarded by the ***Embassy of France in Pakistan and Higher Education Commission of Pakistan*** to visit and gain valuable experience by meeting and discussing my research topic titled *Environmental Policy Instruments Designing for Efficient Management of Environment and Natural Resources for developing*

countries including Pakistan, with the Environmental specialists and academics at the **Maison de Science de L’Homme, Paris, France** in November 2004.

- Full Scholarship awarded by the **Higher Education Commission, Islamabad, Government of Pakistan, under the International Linkage Program for Social Sciences and Humanities** to visit **Institute of Economic Growth, University of Delhi India and Center for Interdisciplinary Studies in Environment and Development, Bangalore, India**, for curriculum development of Environmental Economics August –September 2005.
- Full Scholarship awarded by the **Higher Education Commission, Islamabad, Government of Pakistan**, to participate in **HPAIR (Harvard Project for Asian and International Relations)** international academic conference in Beijing, China and present a paper on the topic of **Environmental Issues in Pakistan** during August 21 – 24, 2007.
- Full Scholarship awarded by the **Applied Economics Research Centre, University of Karachi** to study for PhD degree (Oct 2006 – Sept 2009)
- Full Fellowship awarded to undertake research work for 2011 **South Asian Fellowship Program** at the **East-West Centre in Washington, USA**.
- Full Fellowship awarded by the **United Nations Environment Program (UNEP)** for the **Certificate Training Course / Workshop** in Economics of Biodiversity and Ecosystem Services: Building Biodiversity and Ecosystem Services in to National Policy by the **at the Kings College, University of Cambridge**, (Sept 2014).
- Full scholarship awarded and selected by the **Center for Development Innovation, Netherlands, and Asian Disaster Preparedness Center (ADPC)** for an advanced course on ‘**Managing Risks in the face of Climate Change**’ (March 23 to April 05, 2015).

Employment Record

Applied Economics Research Centre (AERC), University of Karachi;

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|---|--|---------------------------|
| • | DIRECTOR AERC | July 2016 to date |
| • | INCHARGE AERC | August 2015 to June 2016 |
| • | Research Professor BPS-21 | February 2016 to date |
| • | Senior Research Economist/Associate Prof | July 2001 to January 2016 |
| • | Research Economist/Assistant Professor | June 1997 to June 2001 |
| • | Staff Economist/Lecturer | January 1996 to June 1997 |

Responsibilities include undertaking contract and core research projects particularly in Development and Sustainable Development Economics, Environmental and Natural Resource Economics, Economics, Finance and Human Resource Economics, Institutional Economics etc. Contract research involves preparation of project proposals, methodology design, coordination and supervision of field surveys, computer data management and report writing; Teaching post graduate courses in Environmental Economics, Micro-Economics, Development Economics and guiding MPhil and PhD theses.

- Editor, Pakistan Journal of Applied Economics
- Incharge / Head of Phd Program (June 2015-July 2016)
- Member, Graduate Studies Committee.
- Incharge Graduate Studies Program (June 2005 – Sept 2006)
- Member Academic Committee
- Member Board of Governors, Applied Economics Research Centre.
- Incharge / Co-ordinator of Development Planning of AERC and Conference / Seminar Secretariate.
- Member Editorial Board, Journal of Social Sciences, University of Karachi

Teaching Assignments at the AERC, University of Karachi

Teaching following courses in the MPhil & PhD Program

i) Environmental and Natural Resource Economics: an optional course

The contents include presentation of the role and justification of economic approaches for environmental problem-solving, essential features of the logic and operation of the market mechanism, the nature and treatment of environmental effects in economic reasoning and decision-making, and the application of environmental policy instruments based on economic analysis. The modules review the suite of contemporary environmental management approaches (e.g. ecological modernization, ecological economics, and industrial ecology) with substantial (physical) economy dimensions.

ii) Microeconomic Theory I & II: compulsory course in Qrt I and Qrt II

The major topics covered in this course are Nature of Modern Economics, Language and Methods of Mathematics, Individual Decision Making, Consumer Theory – Demand Analysis and Consumer’s Choice, Production Theory – Market and Cost Analysis, General Equilibrium Theory and Social Welfare, Market Failure, Asymmetric Information, Externalities and Public Goods.

iii) Development Economics: compulsory course

The course is designed to better understand the lives of the world’s poor. What are their lives like? Why do they remain poor? Specifically, what price distortions and market failures hinder their quest to improve their wellbeing? Is there scope for policy to help the world’s poor? We do not get answers to these questions with anecdotes and abstract theory. Rather, we examine detailed survey data of the world’s poor, and look at policies that have been attempted and evaluated scientifically. This requires a solid understanding of how to read and interpret statistics.

Theses Guidance (Under BSAR of Karachi University)***HEC Approved Supervisor:***

- i) Thesis Title: ‘The Contribution of tourism development to economic growth in Pakistan’.
Student’s Name: Mehmood Khan Kakar
Period: 2006-2010 (Completed)
- ii) Thesis Title: ‘Impacts of trade liberalization on environment: A case study of Pakistan’.
Student’s Name: Usman Azhar (Completed)
Period: 2004-2007
- iii) Thesis Title: ‘Domestic private investment performance, its determinants and relationship with economic growth – A case study of Pakistan’.
Student’s Name: Mohammad Najmulislam Siddiqui (Completed)
Period: 2010- 2014 (Completed)
- Thesis Title: ‘Impacts of financial liberalization on firms’ growth: A case of KSE listed firms in Pakistan’.
Student’s Name: Kashif Imran
Period: 2010- 2012 (Completed)
- iv) Thesis Title: ‘Export performance and the role of foreign direct investment: A case study of Pakistan’.
Student’s Name: Iftikhar Hussain
Period: Completed
- v) Thesis Title: ‘Determinants of inflation in an open economy: A case study of Pakistan’.
Student’s Name: Mohammad Ashraf
Period: 2011- to date
- vi) Thesis Title: ‘Impact of fiscal decentralization on public expenditures and human development in Pakistan’.
Student’s Name: Rashid Mehmood
Period: Completed
- vii) Thesis Title: ‘Transmission of international shocks on Pakistan economy: A Structural VAR Approach’.
Student’s Name: Muhammad Ayaz
Period: Completed
- ix) Thesis Title: ‘Causal relationship between social development and economic growth with implications for millennium development goals (MDGS): An evidence from SAARC countries.’
Student’s Name: Misbah Umer
Period: Completed
- viii) Thesis Title: ‘Pakistan’s Informal Economy: Estimating the Size Using Real Factors Approach’.
Student’s Name: Ayaz Khan
Period: Completed
- xi) Thesis Title: ‘Tracking down the Effects of Climate Change on Economic Situation of Pakistan - An Empirical Analysis’.

Student's Name: Farina Idris
 Period: 2013

- xii) Thesis Title: 'The Nexus between Energy Efficiency and Sustainable Development in Pakistan: A Three Dimensional Analysis.'
 Student's Name: Sehar Saba
 Period: 2014

- xiii) Thesis Title: 'Measuring the degree of growth inclusiveness by employing human capabilities dimension: Application to Pakistan'.
 Student's Name: Javaria
 Period: 2017-2020 (Completed)

- xiv) Thesis Title: 'The Determinants of Rising Non-Performing Loans and Their Impacts on Bank Profitability and Economy A Case Study of Pakistan

Student's Name: Omair Sabir
 Period: 2018-2020 (Completed)

Students who completed their PhD under my supervision:

1. Mehrunnisa (Department of Economics, University of Karachi)
2. Usman Azhar (Department of Economics, University of Karachi)
3. Hazrat Yousaf (Pakistan Institute of Development Economics)
4. Naveed Awan (Department of Economics, University of Karachi)

Students enrolled in PhD under my supervision:

1. Manzoor Hussain (AERC, University of Karachi)
2. Sayeda Bushra
3. Zeeshan Inam (AERC, University of Karachi)
4. Rafeeq Soomro (AERC, University of Karachi)

Other Teaching Assignments

- Business Applications to Biotechnology, at M.Sc. level at the **Department of Biotechnology, University of Karachi.**
- Environmental Economics and Planning, Post Graduate Level at the **Institute of Environmental Studies, University of Karachi.**
- Occasional lecturer at the **National Institute of Public Administration (NIPA),** Quetta and Karachi.
- Resource Person to the **Municipal Training and Research Institute, Ministry of Environment, local Government and Rural Development, Government of Pakistan.**
- Development Economics and Environmental Economics at B.Sc level at the **Environment Department, University of York, UK**

Research Assignments

FAO / AERC:

The project titled, '**Review of Current Landlords / Tenants / Sharecropping arrangements in Sindh**', in the capacity of Principal Investigator / Project Leader, 2019.

UNDP / AERC:

The project titled, '**Youth Participation in Technical Education and Garment Industry**', was completed in the capacity of Principal Investigator / Project Leader. 2018

ACIAR / AERC:

The project titled, '**Efficient participatory irrigation institutions to support productive and sustainable agriculture in south Asia**', was completed in the capacity of Principal Investigator / Project leader, 2018-19.

World Bank/AERC:

The first project, of which I was one of the team members, is the study titled, "**Food Poverty in Pakistan: Poverty Lines, Incidence and Intensity**". I in the capacity of Project Assistant dealt with the HIES (Household Income and Expenditure Survey) data of three decades. Computerization, data cleaning, analysis and contribution in report writing were my assignments to undertake on this project.

World Bank/AERC

Supervision of surveys in rural and urban areas of Pakistan for the study (project) to determine the "**Role of Women in Housing and Housing Finance**". My duties as Principal surveyor were to supervise the data collection, ascertain the reliability of the collected data and computerization of the primary data. I also contributed in writing a chapter on decision making role of rural women regarding their finances and expenditure on house construction.

World Bank/AERC

Research Analysis and report writing in the study (project) titled **Metropolitan Resource Generation**. A detailed study was done and report was prepared on the topic of **Pattern of Income and Expenditure in the Urban Areas of Pakistan** over a period of Ten Years. Secondary data from three different sources were utilized for this study, from 1992-93. I in the capacity of research analyst reviewed the literature on the above mentioned topic and prepared the first draft of the project for project advisor's comments.

World Bank/National Housing Authority/AERC

Research Analysis and report writing in the study (Project) titled "**Saving and Credit of Low Cost-Housing in Urban & Rural Areas of Pakistan**". This study was undertaken as part of the project entitled, "**Shelter for Low Income Communities in Pakistan**", 1992-93. The tasks of data analysis, review of literature and partial report writing on comparative analysis of two provinces regarding availability of housing credit was accomplished by me.

UNICEF/Population Study Center, University of Karachi

Survey supervision and report writing for the study titled, "**Impact of family planning program in some specific slum areas of Karachi**".

Harvard Institute for International Development/WWF/ AERC

Research Team Member of a project which was undertaken in collaboration with **Harvard Institute for International Development** and **WWF** entitled "**Structural Adjustment and the Environment**", 1993-94.

The duties assigned to me were review of background literature and past economic reforms in Pakistan which effected the environment of the country. I wrote the part of Project Report dealing with the Economic Structure of the country in retrospect.

AERC / World BANK Conference

I presented a paper on the topic of "**Economic Development and Environment in Pakistan: Future Prospects in Past Perspective**" in a Conference held under the auspices of AERC, University of Karachi from March 03, 1998 to March 04, 1998. The major theme of the Conference was State of the Pakistan's Economy. Discussant of the paper on the topic of "**Women's Issues in Pakistan**".

Asian Development Bank / Karachi Water and Sewerage Board (KWSB) /AERC

Co-Project Leader on the Study, "**Benefit Monitoring and Evaluation of Greater Karachi Sewerage and Sewage Disposal Scheme**", I undertook a detailed analysis of the level of pollution at Karachi Harbor to ascertain the efficiency of Maripur Sewage Treatment Plant, a KWSB project.

UNFPA/AERC

Co-Project Leader on the study, "**Family Welfare through NGOs-Final Project Evaluation**". Administration of Data Collection Instruments and related information gathering through interviews from National NGOs actively involved in Family Planning Programmes in Pakistan. Situation analysis and recommendations for future course of action.

Asian Development Bank / AERC

Co-Project Leader on the study, "**Intergovernmental Fiscal Transfers for Equitable In-Country Growth**". This study analyzes and explains the need to formulate a more realistic intergovernmental fiscal transfer system to achieve a more equitable and sustainable socio-economic growth.

Ministry of Finance, Government of Pakistan / INGAD

Co-Project Leader On The Study Of "**Mainstreaming Gender in the PRSP (Poverty Reduction Strategy Paper) for Pakistan**". I did the analysis of sectoral policies from Gender perspective in detail and recommended gender sensitive reforms to be integrated in PRSP.

Other Experience and Activities

- Participated in a training workshop on '**Fiscal Federalism & Fiscal Decentralization in Pakistan**' at the Pakistan Institute of Development Economics, Islamabad, in October 2011.
- Chaired a session in National Workshop titled '**Moving Towards Cleaner Fuels and Vehicles in Pakistan**' held under the auspices of World Conservation Union (IUCN) in July 2010.
- Participated in a week long academic Certificate Course on '**Gender Budgeting**' at the Social Policy and Development Center under the auspices of CIDA and UNDP, in October 2003.
- Participated in the Training Workshop / Seminar on '**Role of Women in the Management of Higher Educational Institutions**' under the auspices of Fatimah Jinnah University and Association of Common Wealth Universities in November / December 2003.
- Participated in the Training of the Trainers Certificate Workshop on "**Gender Equality and Good Governance**" at the Administrative Staff College, Lahore, in collaboration with UNDP.
- Resource Person and Trainer of a week long training course on various vital issues of **Economic Development** at the **National Institute of Public Administration (NIPA), QUETTA** from September 7, 1998 till September 9, 1998. The participants comprised of civil servants and government officers of various government ministries and departments in BPS-19 and above.
- Consultant and Resource Person to **Municipal Training and Research Institute (MTRI), Ministry of Environment, Local Government and Rural Development**. I conducted a weeklong Training course and Seminar on the topic of "**Role of Local Government in Environmental Protection for Sustainable Development**", from 31st March to 5th April 1997 at MTRI. The lecture presentations on the topics of "**Urbanization Trends and their Environmental Impacts in South Asian Countries**", and "**Empowerment of Local Government in South Asian Countries**", were made in this training course. The participants included Administrative Officers, Chief Officers, Assistant Directors, Deputy Directors and Municipal Executives of the Local Government/Bodies across the board.
- Member of **SID (Society for International Development)** International Secretariat, Rome, Italy. I have the privilege of being appointed as Youth Coordinator by SID (Karachi Chapter) to oversee and encourage youth programming for the chapter. My selection as member International Youth Advisory Board is an honor for me. I hold the post of Joint Secretary of **SID Karachi** chapter after being elected through ballot.
- Associated (voluntary) with **BUSTI (Basic Urban Services for Katchi Abadies)** a Karachi based NGO working at the grass roots level for community development in squatter settlement and remote villages around Karachi, since March 1991 as research advisor.

- Member committee, constituted to prepare a comprehensive report on the proceedings of a "**National Workshop on Community Based Urban Management**", held under the auspices of the "Ministry of Environment, Local Government and Rural Development, Government of Pakistan" at the Municipal Training and Research Institute (MTRI), Karachi from 27 May - 30 May 1991. Our committee, after examining alternative strategies came up with recommendations to effectively involve the community in provision of basic services, better coordination between different agencies and innovative-approaches for improving the quality of life.
This comprehensive report was submitted to the Government of Pakistan.
- Attended long special course of **Training for Trainer of Child Registration at Birth** held in Islamabad in February 1997, Organized by the **Ministry of Environment, Local Government and Rural Development, Islamabad**, in collaboration with **National Commission for Child Welfare and Development and UNICEF, Islamabad.**
- The workshop on the theme of "Do it yourself" was organized by **BUSTI**. I as leader of organizing committee had an opportunity of coming in contact with the people of the community at the grass roots level. The idea of the workshop stemmed from the need of specific initiatives to better managed surroundings, protect environment and control pollution, making life easier for the down-trodden, especially women. It was a unique experience of public speaking to communicate knowledge and experience of the successful adoption of indigenous technologies to the people of squatter settlements and community as a whole.

Consultancies

- i) FAO
- ii) World Conservation Union (IUCN)
- iii) Asian Development Bank
- iv) UNEP
- v) UNICEF
- vi) World Bank
- vii) Environment Protection Agency
- viii)** Arshad Zaman Associates

Memberships

- Member and Treasurer of **Rotary Club of Karachi Cosmopolitan** in June 1998. Elected Joint Secretary for the year 2000-2001.
- Member of **American Association of University Women (International)** since 2006.
- Member of **SANDEE (South Asian Network of Development and Environmental Economics)** since 1999.
- Life Member of **ISEE (International Society for Ecological Economics), USA**, and **INSEE (Indian Society for Ecological Economics), Delhi, India**.
- Member of **PSDE (Pakistan Society of Development Economists)**, Islamabad.
- Member **Pakistan Institute of International Cultures, Karachi**.
- Member **Sustainable Development Policy Institute, Islamabad**.
- Member **Commonwealth Alumni, UK**
- Member **Environment Leadership Program Alumni, University of California, Berkeley, USA**.
- Member **International Society for Development and Sustainability (ISDS) (Japan)**.
- Member **Australian Agriculture and Resource Economics Society (AARES)**

Computer Work

I am trained in sophisticated Computer Packages like Word, LIMDEP, R, STATA TSP, EXCEL, SPSS, EVIEWS, R, QUATTRO, MICROSOFT OFFICE, MICROFIT, SHAZAM, LOTUS, Xywrite, etc.

Key-Experience in Environment and Publications

- I gained valuable experience by meeting and discussing my research topic titled *Environmental Policy Instruments Designing for Efficient Management of Environmental and Natural Resources for developing countries including Pakistan*, with the Environmental specialists and academics at the Maison de Science de L'Homme, Paris, France in November 2004.
- Core research study titled "Economic Valuation of Biodiversity and Poverty Environment Nexus" facilitated by the Higher Education Commission (HEC) of Pakistan and IUCN Pakistan.
- Pre-feasibility study of the "Integrated Coastal Zone Management" (Coastal Areas of Pakistan) as consultant to IUCN and Asian Development Bank.
- A study on the topic of "Economic Analysis of the Wetlands Ecosystems and Resources in the Indus delta (Cost Benefit Analysis to determine Net Benefits of Resources) in Pre and Post Tarbela Dam Scenario", has been recently completed by me as consultant Environmental Economist for IUCN Pakistan as part of the Major study on the "Guidelines for Artificial Flood Releases from Reservoirs To Maintain

Downstream Wetland Ecosystems and Dependent Livelihoods" by Institute of Hydrology, UK 2000.

- Environmental Economist on the study "The Contribution of the Private Sector and Non Government Organizations towards the Implementation of the Pakistan National Conservation Strategy (PNCS) " as part of comprehensive Mid Term Review of PNCS undertaken by the Ministry of Environment and Rural Development, Government of Pakistan. A detailed Report based on Focus Group Discussions has been submitted to the Ministry and IUCN Pakistan.
- A research study, "Economic Valuation of Mangroves Ecosystem along Coastal Areas of Karachi"; was published by IUCN.1999.
- Co-Project Leader of the study titled, "Benefit Monitoring and Evaluation of Greater Karachi Sewerage and Sewage Disposal Scheme", for Asian Development Bank and KWSB. A detailed analysis of the level of pollution at Karachi Harbor to ascertain the efficiency of Maripur Sewerage Treatment Plant was assigned to me as part of the project.
- I initiated a research analysis of the current situation of Natural Resource Management in Pakistan and presented a comprehensive paper on this topic in an international seminar.
- I have worked as Research Analyst on the topic of "Structural Adjustment and the Environment", a project in collaboration with Harvard Institute for International Development, USA and WWF.
- Member of WorldWIDE Forum (Women in Development and Environment), Washington D.C, U.S.A., has worked on the issues of Women in Development and Environment.
- I have presented research papers on different issues of Environment and Sustainable Development on different International forums and conferences in South Asia and Latin America.
- Consultant Contributor and member Council of Advisors to "Environmental News", a Journal which publishes articles on issues in Environment.

Visits Abroad – Conferences and Workshops

- South Asian Countries like **Bangladesh** and **Sri Lanka** to attend the SID Regional Conference and presented papers in 1991 and 1993 respectively.
- **Nepal**, to attend the research meeting and training workshop of SANDEE (South Asian Network for Development and Environmental Economics) 1992
- Latin American Countries like **Mexico** for World Conference of SID.1994
- I visited various places for training programmes and conferences in Britain while studying for M.Phil e.g. **Scotland** and **Manchester**.1995
- **Hong Kong** and **Bangkok, Thailand** for study tour and sight seeing.1995
- **Sweden** to study Certificate Course in Environmental Policy Instruments and Designing.2001
- **Berkeley, California, U.S.A.** to study Certificate Course in Environmental and Resource Management.2002
- **Perth, Australia** to present a paper on the topic of '**Issues in Higher Education and Learning in Pakistan**' in an academic conference at the University of Curtin, Perth. 2002
- **Osaka, Kusatsu (Shiga Prefecture) & Tokyo, Japan** to participate in a eight weeks long Training course in Environmental Education focused on Fresh Water Resources.2004
- **Paris, France** to work on my research titled Environmental Policy Instruments and Designing for Efficient Environmental and Natural Resource Management in developing countries including Pakistan at **Maison de Science de L'Homme in Paris**.2005
- **New Delhi, Bangalore, India** for Curriculum Development of Environmental Economics course at the Institute of Economic Growth, University of Delhi and Center for Interdisciplinary Studies in Environment and Development, Bangalore.2005
- **Beijing, China**, to participate and present a paper on the topic of *Current Environmental Issues in Pakistan*, in an international academic conference under the auspices of **HPAIR (Harvard Project for Asian and International Relations)** 2007.
- **Kuala Lumpur, Malaysia**, to participate and present a paper on the topic of *Tourism and Economic Growth Potential* in an international academic conference under the auspices of **HPAIR (Harvard Project for Asian and International Relations)** 2008.
- **Boston, Harvard University, USA**, to participate and present a paper on the topic of *Impact of Environmental Policies on Pollution in Pakistan*, in an international academic conference under the auspices of **HPAIR (Harvard Project for Asian and International Relations)** 2009.

- **Istanbul, Turkey**, to participate and present a paper titled, *Do Informal Methods to Control Pollution Work? A Case of Industrial Pollution in Pakistan*, at the Istanbul International Conference on Business and Economics during 03-04 August 2012, organized by the **SOCIAL SCIENCES RESEARCH SOCIETY** of Turkey.
- **Bangkok, Thailand**, to participate and make presentation in the advanced international course on ‘**Managing risk in the face of Climate Change**’, 23 March-3April 2015,
- **Bosnia Herzegovina**, to participate and present a paper on the topic of ‘*Climate Change and Marginalized Communities*’ in an international conference organized by the University of East Sarajevo, Faculty of Agriculture and University of Belgrade, Faculty of Agriculture from 15-18 October, 2015.
- **Valencia, Spain** to participate and present a paper on the topic of ‘*Issues of tourism as contributor to economy in a conflict zone*’, in an international conference organized by the Wessex Institute of Technology, Southampton, UK in May 2016.
- **Urumqi, China**, to participate in the second CAREC (Central Asia Regional Economic Cooperation) Institute Think Tanks Development Forum on 7-8 September, 2017.
- **Colombo, Sri Lanka**, to attend the workshop of ACIAR Project and make presentation of the preliminary findings of first year of the project on 26-28 September, 2017.
- **Adelaide and Sydney, Australia**, to present a paper in Participatory Irrigation Management at the international conference organized by University of Adelaide and Southern Australian University on 5-9 February, 2018.
- **Bishkek, Kyrgyzstan**, to participate in the third CAREC (Central Asia Regional Economic Cooperation) Institute Think Tanks Development Forum on 10-12 July, 2018.
- **Baku, Azerbaijan**, to participate in the round table conference in the regional transportation organized by the CAREC (Central Asia Regional Economic Cooperation) Institute Think Tanks Development Forum on 13-14 September, 2019.

Research Papers and Publications

Publications in Refereed Journals

- ‘Uncertainty and risk analysis of Pakistan’s housing markets: Fan chart approach.’ Accepted for publication in South Asian Journal of Management Sciences (2021).
- ‘Determinants of income diversification in flood-prone rural Pakistan’, published in the International Disaster Risk Reduction, Volume 50 (2020).
- ‘Foreign Capital Inflows and Housing Market in Pakistan: published in the International Journal of Housing Markets and Analysis, (2020).
- ‘A Dynamic Study of Child Labor Market and its Determinants in Pakistan: A Time Series Analysis’ published in Pakistan Journal of Applied Economics, Vol. 30(1), 2020.
- ‘Ecological Footprint, Environmental Intensity and Income Inequality’ published in Pakistan Journal of Applied Economics, Vol. 28(1), 2018.
- Research Paper on the topic ‘The dynamics of net migration within fundamental and corporate features- Pakistan’s provincial study’, published in Pakistan Journal of Applied Economics (PJAE), AERC, University of Karachi, Vol 27 (2) 2017.
- Research Paper on the topic ‘The real size of underground economy- The case of Pakistan.’ published in Pakistan Journal of Applied Economics (PJAE), AERC, University of Karachi, Vol 27 (1) 2017.
- Research Paper on the topic 'The role of economic stability and level of education in strengthening democratic norms’, was presented in a conference titled’ Competing approaches to Democratization? Developing world and European Union in comparison’ at Area Study Centre, Karachi University on September 24-25, 2013.
- Climate change and relationship between meteorological parameters: A case study of Jacobabad, Sindh’ published in the Asian Journal of Agriculture and Rural Development Vol 3(8), 2013).
- ‘The climate change dynamics and its impact on the wheat productivity in Pakistan: A VAR Approach’ published in Asian Journal of Agriculture and Rural Development, Volume 3(8):pp.584-596, 2013.
- ‘Measuring the cost of environment-friendly textile processing in Pakistan: A distance function approach’, published in Bangladesh Development Studies, Vol 35, No.4, December 2012.
- ‘Do informal methods to control pollution work? A case of industrial pollution in Pakistan’, published in International Journal of Economics and Finance Studies. Vol 4, No.2, 2012.

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