

Dr. Farhad Zulfiqar

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Research Interests

Sustainability in value chains, Innovations for sustainable development, Agricultural sustainability, Agriculture policy analysis, Community-based resource management, Agricultural marketing and trade, Agricultural development, Climate change, Food security, Agribusiness management.

Projects

September 2019 – August 2021	Identification and up-scaling of climate-smart agriculture (CSA) practices for sustainable food security in high altitude farming regions of Himalaya. Funded by Asia Pacific Network for Global Change Research (APN-GCR) http://www.apn-gcr.org/resources/items/show/2117
October 2019 – October 2020	Sustainable bioenergy development in emerging economies under global changes: current practice, prescription, response, and management. Funded by Pakistan Science Foundation and National Natural Science Foundation of China
December 18, 2017 – December 18, 2019	Managing Water Commons and the Extent of their Climate Resilience in Punjab, Pakistan. Funded by the Higher Education Commission of Pakistan

Professional Experience

January 2021– Present	“Assistant Professor” in Department of Food, Agriculture and Bioresources, Asian Institute of Technology, Thailand
May 2017 – Dec. 2020	“Assistant Professor” in Department of Economics, COMSATS University Islamabad, Pakistan
Dec. 2016 – Apr. 2017	“Foreign Expert” in Faculty of Environment and Resource Studies at Mahidol University, Thailand
June 2011 – August 2011	“Research Analyst” at Innovative Development Strategies, Pakistan
Nov. 2010 – June 2011	“Research Fellow” at University of Agriculture Faisalabad, Pakistan
Dec. 2009 – Nov. 2010	“Research Assistant” in the Department of Agricultural Economics, University of Agriculture Faisalabad, Pakistan
July 2008 – Aug. 2008	“Field Researcher” at Sustainable Development Policy Institute, Pakistan
Feb 2008 – June 2008	“Intern” at Sustainable Development Policy Institute, Pakistan

Other Projects

- Research assistant in the project “Agricultural Learning Exchange for Asian Regional Networking (AgLEARN)”.
- Team lead in the project “An economic analysis of different production technologies of sugarcane in district Faisalabad” funded by the University of Agriculture Faisalabad, Pakistan.
- Team lead in project “Impact of wheat support price policy on food security in Pakistan” funded by the University of Agriculture Faisalabad, Pakistan.

- Sampling, and monitoring of field teams from the head office in the project “Assessment of disbursement of Benazir Income Support program” at Innovative Development Strategies, Pakistan.
- Data collection, data analysis, and reporting for project “Impact of mining and quarrying activities in Abbottabad district” at Sustainable Development Policy Institute, Pakistan.

Publications

- Anwar, M., **F. Zulfiqar**, Z. Ferdous, T.W. Tsusaka, A. Datta*. 2021. Productivity, profitability, efficiency, and land utilization scenarios of rice cultivation: An assessment of hybrid rice in Bangladesh. *Sustainable Production and Consumption*, 26, 752-758. <https://doi.org/10.1016/j.spc.2020.12.035>
- Ain, Q., R. Ullah, M.A. Kamran, **F. Zulfiqar***. 2020. Air pollution and its economic impacts at household level: willingness to pay for environmental services in Pakistan. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-020-11023-4>
- Ferdous, Z., **F. Zulfiqar**, H. Ullah, M. Anwar, A.S.M.M.R. Khan, A. Datta*. 2020. Improved management practices vis-à-vis farmers’ practices for rice-based cropping systems in Bangladesh: Yield gaps and gross margins. *Journal of Crop Improvement*. <https://doi.org/10.1080/15427528.2020.1848958>
- Roy, D., A. Datta*, J.K.M. Kuwornu, **F. Zulfiqar**. 2020. Comparing farmers’ perceptions of climate change with meteorological trends and examining farm adaptation measures in hazard-prone districts of northwest Bangladesh. *Environment Development and Sustainability*. <https://doi.org/10.1007/s10668-020-00989-3>
- Ferdous, Z., **F. Zulfiqar**, A. Datta*, A.K. Hasan, A. Sarker. 2020. Potential and challenges of organic agriculture in Bangladesh: a review. *Journal of Crop Improvement*. <https://doi.org/10.1080/15427528.2020.1824951>
- Abid, M., **F. Zulfiqar**, M. Raza*. 2019. Managing electronic waste pollution: policy options and challenges. In Hashmi, M.Z., A. Varma (Eds.), *Electronic waste pollution: environmental occurrence and treatment technologies*. Springer, Cham, Switzerland, Vol. 57, pp. 329-345. <https://doi.org/10.1007/978-3-030-26615-8>.
- Ullah, R.*, G.P. Shivakoti, M.A. Kamran, **F. Zulfiqar**. 2019. Land ownership and catastrophic risk management in agriculture: The case of Khyber Pakhtunkhwa province of Pakistan. *International Journal of the Commons*, 13 (2), 881-891. <http://doi.org/10.5334/ijc.896>.
- Sher, A.*, S. Mazhar, **F. Zulfiqar**, D. Wang, X. Li. 2019. Green entrepreneurial farming: A dream or reality? *Journal of Cleaner Production*, 220, 1131-1142. <https://doi.org/10.1016/j.jclepro.2019.02.198>.
- Bakhsh, K.*, S. Rauf, **F. Zulfiqar**. 2018. Adaptation strategies for minimizing heat wave induced morbidity and its determinants. *Sustainable Cities and Society*, 41, 95-103. <https://doi.org/10.1016/j.scs.2018.05.021>.
- **Zulfiqar, F.***, G.B. Thapa. 2018. Determinants and intensity of adoption of “better cotton” as an innovative cleaner production alternative. *Journal of Cleaner Production*, 172, 3468-3478. <https://doi.org/10.1016/j.jclepro.2017.09.024>.
- **Zulfiqar, F.***, G.B. Thapa. 2017. Agricultural sustainability assessment at provincial level in Pakistan. *Land Use Policy*, 68, 492-502. <http://dx.doi.org/10.1016/j.landusepol.2017.08.016>.
- **Zulfiqar, F.***, A. Datta, G.B. Thapa. 2017. Determinants and resource use efficiency of “better cotton”: an innovative cleaner production alternative. *Journal of Cleaner Production*, 166, 1372-1380. <https://doi.org/10.1016/j.jclepro.2017.08.155>.

- Ullah, R.*, G.P. Shivakoti, **F. Zulfiqar**, M.N. Iqbal, A.A. Shah. 2017. Disaster risk management in agriculture: tragedies of the smallholders. *Natural Hazards*, 87 (3), 1361-1375. <https://doi.org/10.1007/s11069-017-2821-7>.

- Abid, M.*, G. Ngaruiya, J. Scheffran, **F. Zulfiqar**. 2017. The role of social networks in agricultural adaptation to climate change: implications for sustainable agriculture in Pakistan. *Climate*, 5 (4), 85. <https://doi.org/10.3390/cli5040085>.

- Ahmed, U.I.*, L. Ying, M.K. Bashir, M. Abid, **F. Zulfiqar**. 2017. Status and determinants of small farming households' food security and role of market access in enhancing food security in rural Pakistan. *PLoS One*, 12 (10), e0185466. <https://doi.org/10.1371/journal.pone.0185466>.

- **Zulfiqar, F.***, G.B. Thapa. 2016. Is 'better cotton' better than conventional cotton in terms of input use efficiency and financial performance? *Land Use Policy*, 52, 136-143. <https://doi.org/10.1016/j.landusepol.2015.12.013>.

- **Zulfiqar, F.***, R. Ullah, M. Abid, A. Hussain. 2016. Cotton production under risk: A simultaneous adoption of risk coping tools. *Natural Hazards*, 84, 959-974. <https://doi.org/10.1007/s11069-016-2468-9>.

- Abid, M.*, J. Schilling, J. Scheffran, **F. Zulfiqar**. 2016. Climate change vulnerability, adaptation and risk perceptions at farm level in Punjab, Pakistan. *Science of the Total Environment*, 547, 447-460. <https://doi.org/10.1016/j.scitotenv.2015.11.125>.

- Ullah, R.*, G.P. Shivakoti, A. Kamran, **F. Zulfiqar**. 2016. Farmers versus nature: managing disaster risks at farm level. *Natural Hazards*, 82 (3), 1931-1945. <https://doi.org/10.1007/s11069-016-2278-0>.

- Ullah, R.*, G.P. Shivakoti, **F. Zulfiqar**, M.A. Kamran. 2016. Farm risks and uncertainties: sources, impacts and management. *Outlook on Agriculture*, 45 (3) 199-205. <https://doi.org/10.1177/0030727016665440>.

- **Zulfiqar, F.***, M. Ashfaq. 2014. Estimation of wheat yield response under different agro-climatic conditions in Punjab. *Sarhad Journal of Agriculture*, 30(4), 459-465.

- Hussain, A.*, **F. Zulfiqar**, A. Saboor. 2014. Changing food patterns across the seasons in rural Pakistan: analysis of food variety, dietary diversity and calorie intake. *Ecology of Food and Nutrition*, 53(2): 119-141. <https://doi.org/10.1080/03670244.2013.792076>.

- **Zulfiqar, F.***, A. Hussain. 2014. Forecasting wheat production gaps to assess the state of future food security in Pakistan. *Journal of Food and Nutrition Disorders*. 3:3. <https://doi.org/10.4172/2324-9323.1000146>.

- Ashfaq, M.*, **F. Zulfiqar**, I. Sarwar, M.A. Quddus, I.A. Baig. 2011. Impact of climate change on wheat productivity in mixed cropping system of Punjab. *Soil and Environment*, 30 (2), 110-114.

- Ashfaq, M., **F. Zulfiqar**. 2010. An economic analysis of different production technologies of sugarcane in district Faisalabad. A research report published by *Department of Agricultural Economics, University of Agriculture Faisalabad*.

- **Zulfiqar, F.**, M.K. Bashir. 2009. Article on "Boosting wheat production" in *Economic and Business Review, Agriculture and Technology pages in Dawn Newspaper*.

Research Output

Total Impact Factor	63.406
Total Citations (Scopus)	325+
H-Index (Scopus)	12
Peer-Reviewed Journal Articles	21
Book Chapter	1
Conference Papers	5
Funded Projects	3

Professional Qualifications/Skills

Software Experience: DSSAT, Python, STATA, Geographic Information System (ArcGIS), SPSS, E-Views, DEA, Minitab, Microfit, Production Frontier.

- Participated in a Training program for “Research Methods with SPSS and Minitab” in 2009 organized by WTO Cell, Department of Mathematics and Statistics at the University of Agriculture, Faisalabad.

Education and Training

2013 – 2016 **Ph.D. in Regional and Rural Development Planning**, Asian Institute of Technology (AIT), Thailand

Dissertation Adoption and Performance of “Better Cotton” Management Practices in Pakistan

2011 – 2013 **Masters in Regional and Rural Development Planning**, Asian Institute of Technology (AIT), Thailand

Thesis Assessment of Agricultural Sustainability in Pakistan

2008 – 2010 **M.Sc. (Hons.) Agricultural Economics**, University of Agriculture Faisalabad, Pakistan

Results **Silver Medal**

Thesis Estimation of Wheat Yield Response under Different Economic, Location and Climatic Conditions in Punjab (Pakistan)

2004 – 2008 **B.Sc. (Hons.) Agricultural and Resource Economics**, University of Agriculture Faisalabad, Pakistan

Results **Bronze Medal**

Research report Environmental Impacts of Mining and Quarrying

Courses

Sep. – Dec. 2013 Global course by Masters in Development Practice Secretariat on ‘**Integrated Approaches to Sustainable Development Practice**’ – Earth Institute, Columbia University

Sep. – Dec. 2012 Global course by Masters in Development Practice Secretariat on ‘**Integrated Approaches to Sustainable Development Practice**’ – Earth Institute, Columbia University

Awards/Certificates

- Nominated for the 7th Lindau Nobel Laureate Meeting of the Laureates of the Sveriges Riksbank Prize in Economic Sciences.

- Recipient of the Higher Education Commission of Pakistan (HEC) Scholarship for pursuing a Master leading to Ph.D. at the Asian Institute of Technology (AIT), Thailand. August 2011 – July 2016

- **Silver medal** in M.Sc. (Hons.) Agricultural Economics was received in the convocation held in 2013.

- **Bronze medal** in B.Sc. (Hons.) Agricultural and Resource Economics received in the convocation held in 2011

- University Merit Scholarship received in 2008-09 and 2009-10 during M.Sc. (Hons.)

- University Merit Scholarship received in 2005-06, 2006-07, and 2007-08 during B.Sc. (Hons.)

Conference Papers and Conferences

Invited Lectures

Institute-Wide Seminar on the topic “Achievement of Sustainable Production from the Perspective of Sustainable Development Goals” on 12 July 2018. Asian Institute of Technology, Thailand.

Keynote Speeches

Delivered a Keynote on “Institutions to cope hydrological variability: cases from Pakistan” at Asia Region Biennial International Association Study of the Commons Meeting on “Redefining Diversity and Dynamism of Natural Resource Management in Asia”, 13-16, July 2018, AIT, Thailand.

Conference Presentations

Zulfiqar, F. 2019. Presented on the topic “A Paradigm shift from Food Security to Food and Nutritional Security” at Conference on “Strategies for Agriculture led Rural Development”, October 9-10, 2019, at Serena Hotel Islamabad, Pakistan organized by Lok Sanjh Foundation.

Zulfiqar, F. 2019. Presented on the topic “Replicating Sustainability aspects of Chinese SEZ’s in Pakistan” at International Conference on “Special Economic Zones in Pakistan: Applicability of the Chinese Model”, March 25, 2019, at COMSATS University Islamabad, Pakistan organized by China Study Center.

Conference Papers

Zulfiqar, F., M. Zubair, R. Ullah. 2018. Climate-induced water scarcity and the effectiveness of community based water resource management. Asia Region Biennial IASC Meeting on “Redefining Diversity and Dynamism of Natural Resource Management in Asia”. Asian Institute of Technology, Bangkok, Thailand. July 13-16, 2018.

Zulfiqar, F., R. Ullah. 2017. Water commons and climate change: decentralization of irrigation water use policy in Pakistan. 2017 Commons Workshop, Enhancing Water Governance and Policy. Tsinghua University, Beijing, China. October 14-15, 2017.

Zulfiqar, F., S. Shahzad, M. Abid, R. Ullah. 2017. Managing water commons and the extent of their climate resilience in Punjab, Pakistan. ‘Practicing the commons: Self-governance, cooperation, and institutional change’ of The International Association for the Study of the Commons. Utrecht, Netherlands. July 10-14, 2017.

Zulfiqar, F., G.B. Thapa. 2016. The effect of cotton management practices on water use efficiency and water security challenges in Pakistan. Water Security and Climate Change: Challenges and Opportunities in Asia. Asian Institute of Technology, Bangkok, Thailand. 29 November - 01 December 2016.

Zulfiqar, F., G.B. Thapa. 2014. Environmental sustainability analysis of sub-national agriculture in Pakistan. Book of proceedings: Fifth International Scientific Agricultural Symposium “Agrosym 2014”, Jahorina, Bosnia and Herzegovina, October 23-26, 2014. The University of East Sarajevo, Faculty of Agriculture. Pp. 822-828.

Conferences Participated

Conference on “Strategies for Agriculture led Rural Development”, October 9-10, 2019, at Serena Hotel Islamabad, Pakistan organized by Lok Sanjh Foundation.

International Conference on “Special Economic Zones in Pakistan: Applicability of the Chinese Model”, March 25, 2019, at COMSATS University Islamabad, Pakistan

organized by China Study Center.

Asia Region Biennial IASC Meeting on “Redefining Diversity and Dynamism of Natural Resource Management in Asia”. Asian Institute of Technology, Bangkok, Thailand. July 13-16, 2018.

Organized by Asian Institute of Technology (AIT), Thailand. Chiang Mai University (CMU), Thailand. Ostrom Center for the Advanced Study in Natural Resource Governance (OCeAN). The International Association for the Study of Commons (IASC).

Climate Change Adaptation Policy and Science (CCAPS) Conference. Hosted by PARC, ICIMOD, TERI, BCAS, IDRC, and DFID under the HiAWARE project. February 26-27, 2018, Islamabad, Pakistan.

2017 Commons Workshop, Enhancing Water Governance and Policy. Tsinghua University, Beijing, China. October 14-15, 2017.

XVI Biennial Conference, ‘Practicing the commons: Self-governance, cooperation, and institutional change’ of The International Association for the Study of the Commons (IASC). Utrecht, Netherlands. July 10-14, 2017.

Regional Forum on Climate Change (RFCC) – Low Carbon and Climate Resilient Societies: Bridging Science, Practice, and Policy. July 1-3, 2015 at the Asian Institute of Technology, Thailand.

UNU-WIDER Conference on ‘Inequality – measurement, trends, impacts, and policies’, Helsinki, September 5-6, 2014.