

Abdus Samie

Institute of Agricultural & Resource Economics (IARE),
University of Agriculture, Faisalabad (UAF),
Jail Road, Faisalabad, Pakistan.
Tel: +92-41-920061/Ext 2811-12
Email: abdussamie@uaf.edu.pk

RESEARCH INTEREST

My current research centers around agricultural commodity analysis, environmental impacts of economic activities, land use change and impacts

RESEARCH HIGHLIGHTS

Research Impact

- Total Citations: 1155 (Google Scholar, April 2025)
- H-Index: 13
- i10-index: 14

EDUCATION

2014 – 2018

University of Chinese Academy of Sciences

PhD in Agricultural Economics & Management

Funded by the Chinese Academy of Sciences (CAS) and The World Academy of Sciences (TWAS)

Supervisor: Professor Dr. Deng Xiangzheng

Dissertation: Scenario simulation of land use/cover change and its impacts on regional climate: Evidence from Punjab province, Pakistan

2004 – 2006

University of Agriculture, Faisalabad

M.Sc. (Hons.) in Environmental & Resource Economics

Thesis: Economic comparison of conventional and organic farming systems: A linear programming

2000 - 2004

University of Agriculture, Faisalabad

B.Sc. (Hons.) Agriculture

Major: Agricultural Economics

SCHOLARSHIPS/AWARDS/APPRECIATIONS

Academic distinctions:

- CAS-TWAS President's PhD Fellowship Recipient (2014 to 2018)
- Holder of first division throughout academic career

Diligent work as a reviewer:

Certificate of Outstanding Contribution in Reviewing in recognition of the contributions made to the quality of the journal

Awarded by Technological Forecasting & Social Change (Elsevier), March 2018

- Recognized for peer review contributions, providing valuable insights and constructive feedback to enhance the quality and impact of academic publications.

Certificate of Reviewing in recognition of review contributed to the journal

Awarded by Resources, Conservation & Recycling (Elsevier), April 2018.

Certificate of Outstanding Contribution in Reviewing in recognition of the contributions made to the quality of the journal

Awarded by Physics and Chemistry of the Earth, (Elsevier), March 2017

Certificate of Reviewing in recognition of review contributed to the journal

Awarded by Environmental Development, (Elsevier), June 2019

Certificates in Administrative Management:

Certificate of honor for outstanding contribution on Pakistan Day Celebrations

Awarded by the Hall Senate & Office of the Hall Warden, University of Agriculture, Faisalabad, March 23, 2009

Certificate of outstanding contributions for Golden Jubilee Celebrations

Awarded by The Dean, Faculty of Social Sciences, March 13-20, 2011

Certificate of Excellent in Management in Sports Gala 2007

Awarded by the Dean, Faculty of Social Sciences

TEACHING & RESEARCH EXPERIENCE

Teaching/employment Experience:

- | | |
|----------------|--|
| 2024 – present | Serving as Assistant Professor at Institute of Agricultural & Resource Economics (IARE), University of Agriculture, Faisalabad (UAF), Pakistan. |
| 2006 – 2024 | Served as Lecturer at Institute of Agricultural & Resource Economics (IARE), University of Agriculture, Faisalabad (UAF), Pakistan. <ul style="list-style-type: none">• Taught courses of microeconomics, agricultural economics, environmental economics, project management at graduate and postgraduate levels.• Planned lessons and assignments, led discussion, graded papers and exams. |

Supervision and Mentoring Experience:

PhD Mentor

Mentoring a PhD student in research on “extent and drivers of food security of mother and child in Pakistan”, University of Agriculture, Faisalabad, 2021 – Present

- Provide guidance on research design, methodology, and academic writing to support the student’s academic and professional development.

Member, PhD Supervisory Committee

University of Agriculture, Faisalabad, 2020 – Present

- Serve as a committee member, offering expertise and feedback to support the progress and success of PhD candidates in their research projects.

Thesis Supervisor

Supervised 28 MPhil/M.Sc. (Hons) Students, University of Agriculture, Faisalabad, 2012 – Present

- Guided students through research design, data collection, and thesis writing in areas related to agricultural commodity analysis, environmental impacts of economic activities.
- Ensured high quality academic output and timely completion of research projects.

Committee Member for MPhil/M.Sc. (Hons) Thesis Work

University of Agriculture, Faisalabad, 2012-present

- Actively served as a committee member for over 20 students, providing guidance and expertise in thesis development, research methodologies, and academic writing.

Research Experience:

2018 – 2021

Project Title: Strengthening vegetable value chains in Pakistan (SVVCP) for greater community livelihood benefits” (launched by CABI and funded by Australian Centre for International Agricultural Research (ACIAR) with budget A\$2,895,677.

Role in the project:

- Worked as team member and completed the following assigned tasks:
 - Prepared questionnaires for data collection
 - Market visits
 - Consignment preparation
 - Market delivery
 - Financial analysis
 - Conducted training sessions for farmers on record keeping.
 - Prepared template of cost production in excel and provided to the farmers.
- Completed project as Co-PI funded by the Institute of Chartered Accountants of Pakistan (ICAP).

2021 – 2022

Project Title: “A diagnostic analysis of role of middlemen in financing and marketing of agriculture business and its impact on the earnings of farmer: A case study of potato farmer” funded by the Institute of Chartered Accountants of Pakistan with budget 598,561PKR.

Role in the project: Worked as Co-PI

2024 – 2025

Project Title: “Geography of Pakistan” of China-Pakistan Joint Research Center on Earth Sciences funded by Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China.

Role in the project: Working as Chapter Leader

TRAINING/OTHER SKILLS

Trainings and Certifications:

Dynamic Human Environment Games (Agent Based Model). Cornell University (USA) and University of Agriculture, Faisalabad (UAF), Jan 29 – 02 Feb, 2024.

- Completed hands-on training in agent-based modeling, focusing on human-environment interactions, scenario analysis, and decision-making applications.
- Duration: 5 days

Hands-on training on the application on AI, IoT, and Robotics in Kitchen Gardening using Vege-Bot. University of Agriculture, Faisalabad, Sep 22, 2022.

- Completed training on using AI, IoT, and Robotics in kitchen gardening with Vege-Bot, focusing on automation and sustainable food production.
- Duration: 1 day

Application of GIS & Remote sensing in agriculture sector. Pakistan Academy for Rural Development (PARAD), Peshawar, Pakistan, May 24 – 26, 2022.

- Completed training on how GIS and Remote Sensing technologies are used in agriculture. Learned to apply these tools for crop monitoring, improving farming practices, and managing land and resources effectively.
- Duration: 3 days

Synopsis Preparation. Society of Young Economists, University of Agriculture, Faisalabad, December 27, 2018.

- Completed a workshop on preparing clear and structured research synopses, focusing on academic writing and project formulation.

- Duration: 1 day

Environmental Accounting and Management. School of Environment, Beijing Normal University, China, Jul 7 – 13, 2016.

- Successfully completed training in Environmental Accounting and Management, focusing on integrating environmental factors into financial decisions, tracking sustainability performance, managing resources, and applying Emergy analysis to evaluate energy and material flows in systems.
- Duration: 7 days

Frontier and Inter-disciplinary Sciences. University of Chinese Academy of Sciences, China, Jan, 10

2016.

- Successfully completed training focused on innovative research methodologies and cross-disciplinary collaboration.
- Gained practical skills in integrating frontier sciences to address complex global challenges.

Northeast Asia-Central Asia Regional Resources and Environmental Data Sharing. Institute of Geographic Sciences & Natural Resources Research, Chinese Academy of Sciences, China, Aug 10 – 29, 2015.

- Learned regional collaboration and data-sharing for sustainable resource management.
- Enhanced skills in environmental data analysis and interdisciplinary approaches.

Duration: 19 days

Scientific Presentations. University of Agriculture, Faisalabad, Aug 6 – 11, 2007.

- Successfully completed hands-on training on *Scientific Presentations*, enhancing skills in effective communication, data visualization, and audience engagement.
- Duration: 6 days

SPSS training for Social Sciences. University of Agriculture, Faisalabad, Aug 13 – 20, 2007.

- Successfully completed hands-on training on descriptive statistics, regression analysis, and data visualization techniques in SPSS.
- Duration: 8 days

Internship. Agricultural Prices Commission (APCom), Islamabad, May 4 to July 14, 2014.

- Conducted detailed agricultural policy analysis, including production trends, cost of production estimation, and comparative economics of crops.
- Estimated real prices, import/export parity prices, and factors influencing productivity and marketing strategies.
- Prepared a comprehensive report on the "Cost of Production of Wheat (2003-04 crop)" covering all aspects such as land preparation, chemical inputs, irrigation, harvesting, and marketing.
- Delivered an impactful presentation at APCom, showcasing advanced analytical skills and commitment to excellence.

Other Skills:

IT: Applications: MS Office, LINUX, Windows.

Software: ArcGIS, Dynamics of Land System model (DLS), Climate Data Operator (CDO), SPSS, EVIEWS, STATA, Quantitative System for Business (QSB)

Languages: Proficient in English and Urdu as well and basic Chinese reading, writing,

listening, and speaking.

ORGANIZING EXPERIENCE

Organizer, E-Commerce Forum

- Led the planning and execution of the E-Commerce Forum, coordinating with speakers, sponsors, and participants to facilitate discussions on current trends and challenges in the e-commerce industry.

Committee Member, organizing seminar and outreach events with Chinese team
University of Agriculture, Faisalabad, June 2024

Committee Member, Afghanistan Agribusiness and Investment Forum

University of Agriculture, Faisalabad, September 2023

- Oversaw transportation and accommodation logistics for international participants, ensuring smooth event operations.

Committee Member, Organized a seminar on “Introduction to Project Management”
University of Agriculture, Faisalabad, February 2023

Committee Member, Organized a workshop on “Mixed methods approach for analysis of socioeconomic data”

University of Agriculture, Faisalabad, February 2023

Committee Member, organized a seminar on “A diagnostic analysis of middlemen in financing and marketing of agribusiness and its impact on earning of farmers and consumer price”

University of Agriculture, Faisalabad, June 2023

Committee Member, organized a symposium on “Role of economic policies in industrial and agricultural development”

University of Agriculture, Faisalabad, June 2023

PROFESSIONAL CONTRIBUTIONS AND ENGAGEMENTS

Contributor, Strategic Plan for Urbanization, Punjab Government

University of Agriculture, Faisalabad, 2024

- Participated in the development of a strategic plan focused on sustainable urbanization, contributing to specific area of policy.

Outreach Activities: Wheat Survey and Campaign

University of Agriculture, Faisalabad, 2022-2024

- Conducted a wheat survey to assess production trends and challenges in local farming communities.
- Organized and participated in a wheat campaign to promote best practices in wheat cultivation and enhance farmer awareness.

ADMINISTRATIVE ROLES AND ADDITIONAL RESPONSIBILITIES

Member of the Admission Committee

University of Agriculture, Faisalabad, Pakistan | 2019 – Present

- Assisted in organizing and conducting the student admission process, ensuring compliance with university policies and regulations.

- Reviewed applications and verified candidate eligibility, maintaining high standards of transparency and fairness.
- Collaborated with departmental heads to finalize admission decisions and schedules.

Assistant Superintendent of the Boys Hostel

University of Agriculture, Faisalabad, Pakistan | June 2007 - 2010

- Successfully managed administrative and operational duties for a boys' hostel accommodating over 400 students.
- Managed the daily functioning of the hostel, including student welfare, discipline, and conflict resolution.
- Acted as a liaison between students and the administration to address issues and implement policies effectively.

Tutor in Tutorial Group

University of Agriculture, Faisalabad, Pakistan | 2007 – 2014

- Facilitated interactive sessions, encouraging active participation in discussions and debates.
- Organized and participated in academic debates, fostering critical thinking and public speaking skills among students.
- Led group discussions on various topics, promoting collaborative learning and knowledge-sharing.

Member, Vigilance Committee

Faculty of Social Science, University of Agriculture, Faisalabad

- Assisted in addressing and resolving issues related to misconduct and ensuring a fair academic environment.
- Collaborated with faculty and staff to uphold the standards of discipline within the department.

Member of Collaboration with Industry Stakeholders and University

- Contributed to collaborative efforts between university, industry, and farming communities.
- Assisted in project planning, stakeholder communication, and bridging research with practical applications.

Member, Board of Studies

Institute of Agricultural & Resource Economics, University of Agriculture, Faisalabad

- Reviewed and evaluated curriculum proposals to ensure academic programs align with institutional goals and industry standards.
- Contributed to the development and revision of course structures, syllabi, and degree requirements.
- Collaborated with faculty members to address student academic needs and emerging trends in the field.

WORKSHOPS, CONFERENCES, AND WEBINARS

International Workshop/Seminar Presentations:

- Azhar Abbas and **Abdus Samie**. *"Community participation for flood risk mitigation in rural Punjab: Exploring willingness to contribute labor"* at the networking workshop on Risk Management and Resilience Building for Sustainable Development, organized by IGSNRR, CAS, Beijing, China (online), Sep 24 – 25, 2024.
- **Abdus Samie**. *"Evaluating the impact of future land use/land cover changes on*

ecosystem services value in Punjab, Pakistan (Oral presentation)" at the international workshop on Geography and Sustainability (GEOSUS), organized by Beijing Normal University (China), (Online), Oct 26 – 29, 2023.

- **Abdus Samie.** *"Impact of future land use/land cover changes on ecosystem services value in Punjab, Pakistan."* Symposium on Progress in Direction 4, organized by China-Pakistan Joint Research Center on Earth Sciences, China, (Online) Nov 30, 2022.
- **Abdus Samie** and Azhar Abbas. *"CPEC, people's expectation and community role for agricultural development: Implications for green development and resource conservation"*-Presented at the Seminar on Resources, Environment and Green Development for sustainable development of China-Pakistan Economic Corridor, Beijing, China (Online), July 28, 2021.

Workshops Attended:

International workshop on **Peri-Urban Land Use Change & Food Security.** Centre for Advanced Studies, University of Agriculture, Faisalabad, Jan 26 – 30, 2024.

- Focus: Explored land use policies, urbanization trends, and mitigation strategies for environmental degradation.
- Duration: 5 days

Awareness workshop on **Banking on equality women empowerment.** Institute of Agricultural & Resource Economics, University of Agriculture, Faisalabad (UAF) and State Bank of Pakistan (SBP), November 11, 2021.

International workshop on **Research collaboration b/w HAU, China and UAF to enhance productivity of agriculture sector.** University of Agriculture, Faisalabad, February 27, 2019.

Workshop for Co-Tutors on **Learning by doing: Tools and techniques for working as a team.** Office of the Senior Tutor, University of Agriculture, Faisalabad, May 2-7, 2013.

International workshop on **Economic use of the Post-Harvest Cold Chain.** National Institute of Food Sciences and Technology (NIFSAT), University of Agriculture, Faisalabad, May 19-21, 2010.

- Focus: optimizing cold chain logistics, reducing losses, and implementing cost-effective strategies for perishable goods preservation.
- Duration: 3 days

Workshop on **WTO agreements and their impacts on Pakistan's economy.** WTO Cell, University of Agriculture, Faisalabad, June 3-6, 2009.

- Explored the implications of WTO agreements on Pakistan's trade, industry, and economic policy, emphasizing strategies for sustainable growth in a globalized economy.
- Duration: 4 days

Webinar & Conferences Attended:

Webinar on **"Policy options regarding maternal and child nutritional issues".** Institute of Agricultural & Resource Economics, University of Agriculture, Faisalabad, November 22, 2022.

- Attended a webinar focusing on policy strategies to address maternal and child nutrition challenges, gaining insights into global and local approaches to improving public health outcomes.

International Webinar on **"Diversified Food System to enhance Food & Nutritional Security".** Office of Research, Innovation and Commercialization (ORIC), University of Agriculture, Faisalabad, September 17, 2021.

- Attended a webinar discussing strategies for improving food and nutritional security through diversified food systems, gaining insights into sustainable practices and global food security challenges

International Webinar on “**Cooperative approaches in rural development: The case study of Bursa Women's Cooperative in Turkey**”. Office of Research, Innovation and Commercialization (ORIC), University of Agriculture, Faisalabad, August 20, 2021.

- Attended a webinar exploring the role of cooperative models in promoting sustainable rural development, focusing on community engagement and resource sharing.

International Webinar on “**Diversified rural entrepreneurship to enhance rural livelihood**”. Office of Research, Innovation and Commercialization (ORIC), University of Agriculture, Faisalabad, July 30, 2021.

- Attended a webinar focusing on strategies for promoting diversified rural entrepreneurship to improve rural livelihoods, with an emphasis on sustainable development and economic empowerment.

ICDD Conference on “**Linkages, value chains and development along the rural-urban interface**”. International Centre for Development and Decent Work, University of Kassel, Germany, January 9-12, 2014.

Seminar on “**We and Natural Medicines**”. Institute of Horticultural Sciences, University of Agriculture, Faisalabad, May 02, 2013.

International Webinar on “**A Framework for Analyzing the Economic and Institutional Dynamics of (under) Development**”. Office of Research, Innovation and Commercialization (ORIC), University of Agriculture, Faisalabad.

PUBLICATIONS [Google Scholar](#)

1. Jabeen, S., Mushtaq, K., Samie, A., Umair, M., & Naseer, M. A. u. R. (2024). Exploring under-five mortality disparities: a comparative analysis of rural and urban areas in Punjab-Pakistan, using Multiple Indicator Cluster Survey data. *Public Health*, 236, 466-472. doi: <https://doi.org/10.1016/j.puhe.2024.08.011>
2. Ullah, A., Ullah, R., Khair, S. M., Ali, A., & Samie, A. (2024). The Nexus of Socioeconomic, Technological and Environmental Factors Influencing the Adoption of High-Efficiency Irrigation Systems (HEIS): A Case Study of the Highland Balochistan, Pakistan. *Journal of Xi'an Shiyu University, Natural Science Edition*, 20(5), 774-785.
3. Akhtar, S., Abbas, A., Faisal, M., Raza, M. H., Samie, A., Yu, M., & Lovell, A. (2023). Roles of Personal, Household, Physical, and Institutional Factors on Farmers' Efficiency of Hybrid Maize Production: Implications for Food Security. *Agriculture*, 13(9), 1840.
4. Alam, N., Raza, A., Tahir, A., & Samie, A. (2023). The Production Analysis of Chickpea: A Case Study of District Layyah. *Pakistan Review of Social Sciences (PRSS)*, 4(2), 201 - 209.
5. Alotaibi, B. A., Abbas, A., Ullah, R., Azeem, M. I., Samie, A., Muddassir, M., . . . Sadaf, T. (2023). Dynamics and Determinants of Farmers' Perceptions about Causes and Impacts of Climate Change on Agriculture in Saudi Arabia: Implications for Adaptation, Mitigation, and Sustainability. *Atmosphere*, 14(6), 917.
6. Jabeen, S., Mushtaq, K., Samie, A., & Hassan, S. (2023). Uncovering the rural-urban gap in determinants of infant mortality in Punjab-Pakistan. *Sexual & Reproductive Healthcare*, 38, 100918. doi: <https://doi.org/10.1016/j.srh.2023.100918>
7. Razaq, A., Samie, A., Saleem, M. B., Iqbal, M. A., Jameel, M. A., Yousuf, M., & Ashraf, M. Q. J. J. o. E. I. (2023). Investigating the Impact of Energy Consumption on Economic Growth of Pakistan: An Econometric Analysis. 5(3), 225-230.
8. Shahbaz, P., ul Haq, S., Abbas, A., Samie, A., Boz, I., Bagadeem, S., . . . Li, Z. (2022). Food, Energy, and Water Nexus at Household Level: Do Sustainable Household Consumption Practices Promote Cleaner Environment? *International Journal of Environmental Research and Public Health*, 19(19), 12945.

9. Akhtar, S., Abbas, A., Iqbal, M. A., Rizwan, M., Samie, A., Faisal, M., & Sahito, J. G. M. (2021). What Determines the Uptake of Multiple Tools to Mitigate Agricultural Risks among Hybrid Maize Growers in Pakistan? Findings from Field-Level Data. *Agriculture*, 11(7), 578.
10. Iqbal, M. A., Rizwan, M., Abbas, A., Makhdum, M. S. A., Kousar, R., Nazam, M., . . . Nadeem, N. (2021). A Quest for Livelihood Sustainability? Patterns, Motives and Determinants of Non-Farm Income Diversification among Agricultural Households in Punjab, Pakistan. *Sustainability*, 13(16), 9084.
11. Akhtar, M., Zhao, Y., Gao, G., Gulzar, Q., Hussain, A., & Samie, A. (2020). Assessment of ecosystem services value in response to prevailing and future land use/cover changes in Lahore, Pakistan. *Regional Sustainability*, 1(1), 37-47. doi: <https://doi.org/10.1016/j.regsus.2020.06.001>
12. Hasan, S. S., Zhen, L., Miah, M. G., Ahamed, T., & Samie, A. (2020). Impact of land use change on ecosystem services: A review. *Environmental Development*, 34, 100527. doi: <https://doi.org/10.1016/j.envdev.2020.100527>
13. Iqbal, M. A., Abbas, A., Naqvi, S. A. A., Rizwan, M., Samie, A., & Ahmed, U. I. (2020). Drivers of farm households' perceived risk sources and factors affecting uptake of mitigation strategies in punjab pakistan: Implications for sustainable agriculture. *Sustainability*, 12(23), 9895.
14. Samie, A., Abbas, A., Azeem, M. M., Hamid, S., Iqbal, M. A., Hasan, S. S., & Deng, X. (2020). Examining the impacts of future land use/land cover changes on climate in Punjab province, Pakistan: implications for environmental sustainability and economic growth. *Environmental Science and Pollution Research*, 27, 25415–25433. doi: 10.1007/s11356-020-08984-x
15. Chen, D., Deng, X., Jin, G., Samie, A., & Li, Z. (2017). Land-use-change induced dynamics of carbon stocks of the terrestrial ecosystem in Pakistan. *Physics and Chemistry of the Earth, Parts A/B/C*, 101, 13-20. doi: <https://doi.org/10.1016/j.pce.2017.01.018>
16. Samie, A., Deng, X., Jia, S., & Chen, D. (2017). Scenario-Based Simulation on Dynamics of Land-Use-Land-Cover Change in Punjab Province, Pakistan. *Sustainability*, 9(8), 1285.
17. Sadia, A., Azeem, M. M., Khuda, B., Alvina, F., & Samie, A. (2014). Poverty reduction in Pakistan: the role of agricultural and industrial subsector's growth. *Pakistan Journal of Applied Economics*, 24(2), 143-157.
18. Azeem, M. M., Farwa, U., Abbas, S., Fatima, A., Faiz, S., Samie, A., & Watoo, M. A. (2013). Impacts of Exports and Foreign Direct Investment (FDI) on Economic Growth of Pakistan,". *Middle-East Journal of Scientific Research*, 18(5), 609-614.
19. Azeem, M. M., Saqi, M., Mushtaq, K., & Samie, A. (2013). An Empirical Analysis of Tax Rate and Economic Growth Linkages of Pakistan. *Pakistan Journal of Life and Social Sciences*, 11(1), 14-18.
20. Samie, A., Abedullah, Ahmed, M., & Kouser, S. (2010). Economics of conventional and partial organic farming systems and implications for resource utilization in Punjab (Pakistan). *Pakistan Economic and Social Review*, 48(2), 245-260.
21. Kouser, S., & Samie, A. (2009). Wastewater use in cauliflower production and farmer's health: an economic analysis. *The Pakistan Development Review*, 48(1), 47-66.

Book Chapters:

1. Aisha Olushola Arowolo, Shakirat Bolatito Ibrahim, Raheem Olatunji Aminu, **Abdus Samie**, & Funminiyei Peter Oyawole. (2020). Multiple Scenarios-Based Impact Analysis of Predicted Land-Use Change on Ecosystem Services Value: Evidence From Nigeria *Developing Sustainable Food Systems, Policies, and Securities* (pp. 83-108): IGI Global.
2. Guofeng Wang, Anping Chen, **Abdus Samie**, Wei Song, & Zhan Wang. (2019). Oasis Agriculture: Improving Water Usage Efficiency Within River Basin *River Basin Management* (pp. 1-33). Singapore: Springer.