

RESUME

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CAREER OVERVIEW

Over 16 years of progressive post qualification experience in research, data analytics, statistical and economic analysis, survey design and execution for various industries. Extensive report writing and editing skills through working with international research and funding agencies. Substantial experience in setting up, building and managing big data centre for the Economic Research at Lahore University of Management Sciences (LUMS).

PROFESSIONAL WORK EXPERIENCE

Lahore University of Management Sciences (LUMS) <https://lums.edu.pk/faculty-resources>

Teaching Fellow Role Outline (July 2019 to Date)

Department of economics at Lahore University of Management Sciences (LUMS) offers several data-oriented and quantitative research related courses. In the capacity of teaching fellow my responsibilities include taking tutorials of graduate and undergraduate level courses such as Poverty and Income Distribution and Applied Microeconomics. My tasks also include assistance to students and faculty in their research projects for data and estimation related issues and participation in the funded research studies conducted at LUMS.

Research Fellow Role Outline (July 2011 to June 2019),

Data Resources Unit (DRU) is an online repository of data gathered and developed by LUMS to facilitate academic, policy and market research on Pakistan. My responsibilities include collection, gathering, managing and provision of primary and secondary data resources to researchers in user friendly formats using SPSS, STATA and R code at DRU website (dru.lums.edu.pk/detaildru.php).

This also includes to facilitate students and LUMS faculty in their research through provision of expertise of data analytics in SPSS, STATA, and R.

In addition to this, I perform a major role in different funded research/consultancy grants and projects conducted at LUMS. Till to date I have participated in grants of more than Rs. 300 million.

Solution Highlights

- Supplied data resources, constructed variables, and provided throughout technical guidance in data needs and estimated econometric and statistical models for PhD, MS researchers in their dissertations along applied economics students in their end term research projects.
- Designed survey tools and sample frames for various social and industrial impact assessment surveys including panel studies for international agencies like UNDP, International Growth Center, UK-Aid, Tetra Pak, Pakistan Microfinance Network etc.
- Organized and managed fieldwork of national and provincial level representative surveys which includes training, pre-testing, team mobilization, field supervision and logistical support etc.
- Built data entry panels in Access (DBS), Amos (SPSS), Stata, and MS Excel for several large surveys.
- Monitored and managed data entry teams and operations for various surveys. Cleaned data sets and organized data files with supporting technical documentation such as codebooks and manuals.
- Exclusively accomplished proficient data analytics and data visualization methods to supply presentable results for many national and international policy shaping reports and academic publications such as UNDP, International Growth Centre, UK-Aid, Tetra Pak, Pakistan Microfinance Network, Islamabad etc.

- Gathered large data sets at [DRU](#), which includes Pakistani Census, Surveys, Social, Financial, Industrial and Corporate markets data. Developed these data sets into user friendly SPSS, Stata and RStudio formats which were in various unfamiliar formats, such as Cobol, FORTRAN etc.

[Assistant Manager Role Outline \(July 2008 to June 2011\)](#)

In this capacity I was responsible to manage the Research Associate (RA) team for uploading, testing and operational tasks for DRU database. My duties also included the collection and gathering of Pakistani surveys, census and research related data sets to compound DRU for academic research needs. I also participated in funded research studies at LUMS in the role of managing field work, establish data entry panels, supervise data entry process.

[Research Associate Role Outline \(February 2006 to June 2008\)](#)

Key responsibilities were to enter, clean and organise large survey data and provide analytical results in the shape of tables, graphs and other visualization structures for national and international funded research studies at LUMS. Organized other Pakistani large micro data sets to be uploaded at Data Resource Unit. This included the writing of common code files for Stata and SPSS to read ASCII data files and share data sets in user friendly formats at DRU. Provided technical support to student, faculty and researchers in data handling issues in their research.

RESEARCH PROJECTS COMPLETED

World Bank, Analysis on Agriculture Productivity and Climate Change in Pakistan for the Country Economic Memorandum 2.0 August 2021 to March 2022. <http://bitly.ws/vtqp>

This paper computes total factor productivity (TFP) index and its components for Pakistan's crop agriculture (Chapter 4 of the Report). Part 1 focuses on recent trends and a decomposition of district-level crop agriculture productivity in Pakistan while Part 2 is on sensitivity of crop yield and TFP to extreme weather events in Pakistan's Punjab. My role as data analyst, I Worked as team member in the collection, cleaning and refining the required data. Solely involved in generating final variables and data files for the model estimation. Also produced final tables and graphs for the report.

Tetra Pak, Pakistan, Addressing Yield Gap of Dairy Farms to Increase Productivity in Selected Districts of Punjab: A Spatial Analysis, September 2019 to March 2020.

In this study I performed a key role in generating 600 dairy farms data set and organised it for analysis. Also participated in the regress analysis of various chapters of the study.

ACIAR, Australia, Creating wealth in smallholders' farms in Pakistan through efficient credit systems, 2017-2018. <http://bit.do/fkks7>

Designed survey tool, conducted three days training sessions on survey questionnaire and data collecting techniques. Developed data entry panels, supervised entry process. Cleaned and organized the data. Constructed several variables and indices for the analysis usage. Estimated several parametric and non-parametric economic models to produce analytical results.

ACIAR, Australia, Farmers' capabilities, productivity and profitability: A case study of smallholders in selected agro-zones in Pakistan 2016. <http://bit.do/ffbPt>

Conducted a three-day seminar for enumerators and trained them for the survey tool. Organized survey in sampled areas. Developed and supervised the data entry process. Cleaned the data thoroughly. Constructed several required variables for the research. Provided research assistance in a vast range of dimensions.

Govt. of Punjab, Punjab economic report 2017. <http://bit.do/ffckz>

Estimated child wellbeing, women empowerment and multi-dimensional poverty indices for Punjab district rankings using MICS and PSLM survey rounds. Also conducted regress analysis on Punjab, Pakistan labour market and industrial production.

PMN Islamabad, Impact of microcredit on household's welfare, (panel Study) July 2015 – Jun 2017. <http://bit.do/fkn3i>

The study assesses the impact of micro credit on household education, short-long wealth growth and women empowerment etc. This empirical evidence was estimated by a household panel survey. I designed the survey questionnaire, extracted the representative sample, trained the enumerators for field work, organized and supervised the field work for two rounds with a one-year gap. After collection, the data was entered, cleaned and organized for research use. Several variables and indices were constructed for the analysis. Many hypothesis tests were run to assess the impact.

UNICEF Islamabad, Out of School Children in Gilgit-Baltistan (GB) and Azad Jamu and Kashmir (AJK), July 2014- December 2015. <http://bit.do/ffcsN>

Conducted regional level representative household survey in GB and AJK. Designed survey tool, developed sampling framework and supervised all steps of the data collection process. Processed and tabulated the data for presentation of quantitative results for classification of out-of-school children under five dimensions of exclusion (5D) in the light of Conceptual and Methodological Framework (CMF) proposed by the UNESCO Institute of Statistics (UIS) under their Global Initiative for Out-of-School Children (<http://bit.do/ffcwv>).

Department for International Development (DFID) UK, Advocacy to strengthen demand for economic reform program (ASDERP) January 1 – July 2016. <http://bit.do/ffcwv>

This program supports the objective through the following: targeted research and analysis to identify specific policy reforms; economic advocacy (communications and outreach); and monitoring and evaluation. To evaluate the reforms a perception survey was conducted. My role was to conduct training of survey teams, organize field work, manage data entry and cleaning process and provide analytical results for further report writing. This survey was conducted for two rounds to capture the intervention effects.

International Growth Centre (IGC), and International Food Policy Research Institute (IFPRI), Pakistan KLEMS database and productivity measurement at the industry level 2016. <http://bit.do/ffcz2>

Generating seven industries data of Capital, Labour, Energy and Material (KLEM) using Pakistan national accounts data. This research is funded by two international institutes. I assisted in this research through gathering and compiling the inputs and output data of some industries like agricultural and textile etc.

Tetra Pak, Panel study on structure of dairy production and socioeconomic impacts of milk collection by the processing industry June 2014 – December 2015 <http://bit.do/ffcC4>
<http://bit.do/ffcDc>

In this study I performed a key role in generating 800 household panel data set and organised it for analysis. Also participated in the regress analysis of various chapters of the study.

OXFAM International, Multiple inequalities and policies to mitigate inequality traps in Pakistan. March-2015. <http://bit.do/fffho>

Solely estimated several poverty, inequality and polarization indices using more than 8 household surveys in the light of the world's well-known methodologies.

UNICEF Islamabad, Out of School Children (OOSC) in Pakistan, March 2012 – October 2012. <http://bit.do/fffic>

Generated data from PSLM-HIES 2007-08 and tabulated the data for presentation of quantitative results for classification of out-of-school children (OOSC) under five dimensions of exclusion (5D) in the light of Conceptual and Methodological Framework (CMF) proposed by UNESCO Institute of Statistics (UIS) under their Global Initiative for Out-of-School Children.

United Nations Development Program (UNDP), the State of socioeconomic wellbeing in Punjab, August – September 2012.

Generated a socioeconomic profile of Punjab using MICS 2011 data, conducted multivariate analysis and constructed a calorie-based Food Poverty Index and Household Dietary Diversity Score to measure households' access to food and their nutritional status.

Indus Motor Company, Karachi, Consumer preferences for sales, service operations and product quality of Toyota 3s dealerships in Pakistan.

Analysed and handled Toyota Indus Motors Company customer satisfaction survey data for more than 4500 customers and constructed **Customer Satisfaction Index (CSI)** for Toyota 3S dealerships ranking. Also prepared detailed tables and ranking graphs. Participated four times in this project.

UNICEF Islamabad, Situation Analysis of Children and Women in Pakistan (SitAn), June 15, 2011 to January 15, 2012. <http://bit.do/fffpz>

Worked as a team member to generate data and construct Child Wellbeing and Child Deprivation indices. Generated CWI for the districts of Punjab, Sindh, KP, Baluchistan, FATA and AJK by using MICS data and z-sum scores. Also used Punjab MICS 2007-08 to construct Bristol index of child deprivation.

London School of Economics, International Growth Centre, Agglomeration Economies and their Effects on Productivity and Efficiency of Manufacturing Firms: Evidence from Pakistan, January– October 2011. <http://bit.do/fffqu>

Assisted in this research as data analyst. Used multiple Census of Manufacturing Industries (CMI) data sets to estimate firm level productivity and efficiency of several industries.

World Bank/Ministry of Industries and Production, Government of Pakistan, Islamabad, Implementation Mechanism for Industrial Policy 2010, November 2010 – August 2011.

South Asia Network for Economic Research Institutions (SANEI), Dhaka, Exploring the Links between polarization and poverty: Empirical Evidence from Pakistan, January to December 2010. <http://bit.do/fffu>

Prepared data files to support econometric analysis by merging eight household surveys from HIES 1990-91 to PSLM 2007-08. Prepared analytical results and presented the results using several visualization structures such as graphs, tables e.tc.

World Bank, Washington, D.C. and Ministry of Industries, Government of Pakistan, Industrial policy, its spatial aspects and cluster development in Pakistan, April to December 2010. <http://bit.do/ffv>

Nestle Pakistan, Lahore: Structure of Dairy Production and Socioeconomic Impacts of Milk Collection by the Processing Industry: A Case Study of Pakistan's Rural Punjab., August 2006 – October 2007. <http://bit.do/fffx4>

Participated in this research project as research associate. I entered the survey data of 1000 households, completed a data cleaning process and assisted in the analysis using several econometrics models like measuring productivity of dairy and agricultural farms in the perspective of dairy industry presence.

EDUCATION

BSc. Economics 2002	International Islamic University Islamabad
MSc. Economics 2004	International Islamic University Islamabad
MS. Economics 2014	International Islamic University Islamabad