

August, 2022

ABID REHMAN, PH.D.

Research Fellow (PIDE)

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Research and Education

Ph.D. Economics, National University of Sciences and Technology, 2016 - April-2022.

PhD Dissertation Topic: “Housing, Travel Demand and Associated Cost Nexus for Residential Locational Choice (RLC) of Tenant Households”

Dissertation comprises of four separate chapters that cover all possible trade-offs, and social, economic and behavioral aspects that are necessary to empirically verify for bottom-up or inclusive policy making for short-term, mid-term and long-terms. The main objective of the entire study is to investigate housing and travel demand and associated costs of tenant households based on the residential location choice in Rawalpindi and Islamabad, Pakistan.

- Investigated the study topic **literature through bibliometric analysis** on WOS and Scopus dataset by using **VOS-Viewer** to answer the overall need for clarity required for the researchers regarding theoretical framework, research design, and empirical methodologies.
- Performed time series urban growth analysis (2000-2020) for Rawalpindi and Islamabad on Satellite Imagery through **remote sensing** by using **QGIS**.
- Estimated the **housing demand, travel demand, commuting cost, and rent functions** based on RLC by using GLS model on **Stata-14 statistical package** at a multiscale level across the different cities' structures, income groups, and family structures.
- The study suggest that the housing and transport policies at city, provincial and federal level should consider the concerns of different income groups and family structure, and should be evidence based accounting for the commuting and housing preferences of individuals households.
- Among others, the most important message for the policymakers to control the traffic and urban sprawl issues for all sects of society through a key initiative to shift from irrational and horizontal urban growth to vertical expansion. By doing so, unwanted but necessary development spending for infrastructure development and transportation can be wisely avoided.
- Won two international research fellowships for the Ph.D to University of Cambridge UK and Asian Institute of Technology, Thailand. Four research publications (published and under review) as the first author in prestigious international journals from Ph.D. research work.
- Developed **research network across universities in UK, Netherlands and Singapore** and on three collaborative research projects in the pipeline.

M.Phil. Economics, Pakistan Institute of Development Economics, 2013-2015

Dissertation Topic: How mixed use of land (MUL) in large cities of Pakistan impacts on reduction in commuting and congestion cost by a case study of Islamabad.

- Identify the seven indices that measure MUL for commercial and residential purposes from literature.
- Did Monte Carlo simulations for data generation in R-Software and find Pearson spearman's correlation among those indices and conducted in-depth interviews with **300** participants for the case study.

B.S., Mathematics, International Islamic University, Islamabad, 2009-13.

Research Experience

- **Research Fellow, at Pakistan Institute of Development Economics, Pakistan from August 2022 – Onward**

Working on the project which investigate the hurdles to the development of vibrant rental market in Pakistan. Moreover, why Pakistani's always want to have their own home? Why not they don't prefer investing that amount in to alternative investment sources and live as an tenants for lifetime?

- **[Visiting Researcher](#) and Member, Lab of Interdisciplinary Analysis (LISA), Department of Land Economy, University of Cambridge, UK from January 2020 – August 2020.**

I joined the lab of [Elisabete A. Silva](#) and worked on three research articles including a review paper with the focus travel and housing demand functions of those tenants based on Residential Location Choice (RLC) of tenants' households. In the first article we investigate the housing and travel demand for the tenants based on RLC at city, income levels, and family structures. In the second article, we build a hypothesis that how does transportation and housing Costs Affected by Residential Location choice of Tenants in Rawalpindi and Islamabad, Pakistan. Moreover, I attended a full term course on Spatial Analysis and Modelling on Dynamic simulation models, at Department of Land Economy, University of Cambridge, UK and full module on Agent Base Modelling with Net logo at Department of Geography, University of Cambridge, UK.

- **Research Assistant and Field Supervisor, In an Adaptation Finance Fellowship Programme (AFFP) implemented by Frankfurt School and Thailand Development Research Institute (TDRI), From June- September 2020.**

Worked on the Farmers' climate adaptation and forest conservation study based on choice modeling approach in Haripur District, KP Pakistan. Assisted Principle Investigator in literature review and data collection and survey supervision. I have also trained the enumerators for households' survey data collection in addition to the survey supervision at District Haripur Pakistan

- **Research Assistant, at Center for Policy and Management Islamabad, Pakistan, from October 2014- August 2016.**

Worked on the Climate change project "Household Level Farmers Flood Adaptation Measures in Nowshera District, KP Pakistan" sponsored by *South Asian Network for Development and Environmental Economics (SANDEE)*. Assisted Principle Investigator in literature review and data collection and survey supervision. I have also trained the enumerators for households' survey data collection in addition to the survey supervision at District Haripur Pakistan.

International Research Fellowships and Awards

2020	Research exchange fellowship of 9500 GB£ to by HEC, University of Cambridge, UK
2018	Grant of 2000 US\$ for the research and training workshop, International Centre for Integrated Mountain Development (ICIMOD), Galle, Sri Lanka.
2018	Grant of 3500 US\$ for three weeks of Summer school by SANDEE & ICIMOD, Asian Institute of Technology, Thailand.
2018	Travel grant for 600 US\$ for International Conference on "Central Asian Regional Economic Integration and CPEC, Applied Economic Research Center (AERC), Karachi.
2017-19	Funding of 10,000 US\$ from Higher Education Commission of Pakistan (HEC) for conducting in-depth spatial surveys, National University of sciences and Technology, Islamabad.
2016	Recipient of travel grant for 300 US\$ for International Conference on "11 th seminar on urban and regional Planning, organized by NED University, Karachi.
2013-15	Merit Scholarship of <i>Full Fee Waiver</i> during MPhil in Economics at Pakistan Institute of Development Economics.
2009-13	Merit Scholarship of <i>Full Fee Waiver</i> during BS in Mathematics at International Islamic University, Islamabad, Pakistan

Professional Courses and Trainings

Jan-March, 2020	Spatial Analysis and Dynamic simulation models, Department of Land Economy, University of Cambridge, UK
Feb-March, 2020	Agent Base Modeling with Net-logo, Department of Geography, University of Cambridge.
11th March, 2020	Map your postdoc Journey Now, Student Services Centre, University of Cambridge.
10th March, 2020	Preparing to write your Thesis, Student Services Centre, University of Cambridge.
5th March, 2020	How to Peer-Review Research Papers Student Services Centre, University of Cambridge.
19th Feb, 2020	Managing your Time and Digital Productivity, Economic and Social Research Council Doctoral Training Partnership, University of Cambridge.
14th Feb, 2020	The seven secrets of highly successful PhD students, Student Services Centre, University of Cambridge.
14th Feb, 2020	Managing your digital information Department of Land Economy, University of Cambridge.
09-14 June, 2018	Workshop on Environmental and Resource Economics Organized by International Centre for Integrated Mountain Development (ICIMOD) at Galle, Sri Lanka.
April-May 2018	Summer School on Environmental and Resource Economics Asian Institute of Technology, Thailand , covering overarching training theme for young PhD researchers from South Asia.

Policy Writings & Media Appearances

2021	Can Developing Countries like Pakistan Successfully Finance SDG 2030?	Published for South Asian Center, London School of Economics and Political Science (LSE), UK.
2021	Urban Mobility Paradigm	Published in The Express Tribune
2021	Housing Policy Lessons for Pakistan	Published in The Express Tribune
2021	What is the future of Karachi?	Published in The Express Tribune
2020	Coronavirus and Mental health	Published in The Daily Times
2020	Is our Tax system Fair enough	Published in The Daily Times
2019	Pakistan Foreign Reserves and Debt Crisis	Published for South Asian Center, London School of Economics and Political Science (LSE), UK.
2019	Focus on Inflows!	Published in The Express Tribune
2019	Have amnesty Schemes Worked Ever?	Published in The Express Tribune
2019	Corporate Tax Evasion	Published in The Express Tribune
2019	Tax System Efficiency	Published in The Express Tribune
2019	Fiscal Incentives for SEZs	Published in The Express Tribune
2019	Academia-Industry Linkage	Published in The Express Tribune
2018	If Imran Khan wants lower infant mortality, he should Maldives and Sri Lanka inspiration	Published for South Asian Center, London School of Economics and Political Science (LSE), UK.
2018	Research Blocks	Published in Dawn Newspaper
2018	Real Estate Tax Shelter	Published in The Express Tribune
2018	Doubling the tax revenue with current policies	Published in The Express Tribune

Experience in Data Collection

June-Aug, 2019	Enumerators training; survey/questionnaire design and supervision	Collected spatial data of 995 tenant's households through a coded questionnaire that collect information about socioeconomic characteristics, housing characteristics and urban amenities, and travel use and transport access in Rawalpindi and Islamabad, for my Ph.D. research funded by HEC.
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April-May, 2019	Enumerators training and survey supervision	Collected spatial data of 500 households on the Farmers' climate adaptation and forest conservation study based on choice modeling approach in Haripur District, KP, funded by Frankfurt School and Thailand Development Research Institute (TDRI).
Nov-Dec, 2015	Enumerators training and survey supervision	Collected data of 500 farmer households on Household Level Farmers Flood Adaptation Measures in Nowshera, Pakistan fund by <i>South Asian Network for Development and Environmental Economics</i> .

Experience in Statistical Analysis

Qualitative	Questionnaire Design and Coding In-Depth Interviews and Focus group discussion Recruiting and Training Team for Survey Quality control and Survey Supervision
Quantitative	Data Management in Microsoft Excel Exploratory data analysis in Microsoft Excel and Tableau Crosssectional Regression Analysis in STATA Time series Regression Analysis in E-Views Land use classification and Heatmaps in QGIS. Bibliometric Analysis in VOS-Viewer Monte Carlo Simulation In R Software Development of Mathematical Models and Indices

University Teaching Experience

Spring 2022	Public Sector Economics (UG)	National Defense University, Islamabad
Fall 2021	Urban Economics (UG)	National University of Sciences and Technology
Spring 2021	Money and Banking (UG)	Bahria University, Islamabad
Spring 2021-Fall 2019	Applied Statistics & Urban Economics (UG) Environmental Economics (UG)	National University of Sciences and Technology
Fall 2019-Fall 2017	International Finance (UG) Mathematical Economics (UG) Taxation Economics (UG) Applied Econometrics (UG) Taxation Economics (UG) Labor Economics (UG)	National University of Modern Languages.
Spring 2015	Urban Economics (UG)	Federal Urdu University of Sciences and Technology.

*UG= undergraduate

Relevant publications

2021	Abid Rehman and Faisal Jamil “ Impact of Urban Residential Location Choice on Housing, Travel Demands and Associated Costs: Comparative Analysis with Empirical Evidence from Pakistan ” in the <i>Transportation Research Interdisciplinary Perspectives 10(2)</i> .
2021	Abid Rehman , Faisal Jamil “ A multiscale Analysis of housing demand for Tenants seen through theories of locational choice in Rawalpindi and Islamabad, Pakistan ” published in the conference proceeding of 35 th AGM, <i>IMSciences Peshawar</i> .

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- 2021 **Abid Rehman**, Faisal Jamil & Elisabete A. Silva “[How Public Transport Modes Availability Affects the Commuting Cost and House Rent of Tenant’s Households in Rawalpindi and Islamabad?](#)” at 1st International Conference, CBER IBA
- 2018 **Abid Rehman**, [A comparison of Infant Mortality Rates between Pakistan and rest of the World](#) published in conference proceedings of 6th Peradeniya International Economics Research Symposium at *University of Peradeniya, Sri Lanka*.
- 2016 **Abid Rehman**, Zahid Asghar, [Institutional Policy Reforms for Urban Land Use Planning: Mixed Use of Land in Big cities of Pakistan and its Impact on Reduction in commuting and Congestion Cost](#) published in *Journal of Research in Architecture and Planning volume 21, pp 78-92*

Publications in Peer-reviewed Journals (Under Review)

- 2022 **Abid Rehman**, Subodh Dubey and Prateek Bansal “Residential Location and Dwelling Unit Preferences of Tenants: A Tale of Two Cities in Pakistan” submitted to *16th International Conference on Travel Behaviour Research, LATBR2022*.
- 2022 **Abid Rehman**, Shahzad. M. Naeem Nawaz and Shahzad Alvi “Is it the behaviour and actions of people that determine sustainable urban communities?” under review in the *Sustainable Production and Consumption*.
- 2022 Shahzad. M. Naeem Nawaz, Shahzad Alvi and **Abid Rehman** “How Do Beliefs And Attitudes Of People Influence Energy Conservation Behavior In Pakistan?” under review in the *Heliyon*.
- 2022 **Abid Rehman**, Shahzad. M. Naeem Nawaz, Shahzad Alvi “How energy security preferences are affected by energy conservation behavior, socioeconomic characteristics and urban choices in Pakistan” under review in the *utilities policy*.
- 2022 Shahzad Alvi, **Abid Rehman**, Shahzad. M. Naeem Nawaz “Effects of Socioeconomic Characteristics, Intra and Intergenerational Preferences on Water, Food and Energy Saving Behaviors in Pakistan.” under review in the *Humanities and Social Sciences Communications*.
- 2021 **Abid Rehman**, Faisal Jamil and Elisabete A. Silva “How does Transportation and Housing Costs Affected by Residential Location choice of Tenants in Rawalpindi and Islamabad, Pakistan?” under review in the *Transport policy*.
- 2021 **Abid Rehman**, Faisal Jamil, Elisabete A. Silva “A Multiscale Analysis of Travel Demand of Tenants Affected by the Residential Location Choice in Rawalpindi and Islamabad, Pakistan” Submitted to the *Case studies on Transport policy*.

References

Dr. [Faisal Jamil](#)
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Associate Professor, Department of Economics,
NUST, Pakistan (faisal.jamil@s3h.nust.edu.pk)

Dr. [Parteek Bansal](#)
Professional Reference (Research Collaborator)
Assistant Professor, Department of Civil Engineering,
National University of Singapore, (parteekb@nus.edu.sg)

Prof. [Elisabete A. Silva](#)
PhD Supervisor (Host)
Director, Lab of Interdisciplinary Spatial Analysis
University of Cambridge, UK (es424@cam.ac.uk)

Dr. [Shahzada Naeem Nawaz](#)
Professional Reference (Research Collaborator)
Economist, National Tariff Commission, Ministry of
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