

MUHAMMAD UMAIR, Ph.D.

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SUMMARY

Seasoned and proficient economist with a proven track record of success in academia, research, and administrative capacities. Skilled in the application of advanced econometric techniques for analyzing economic phenomena, specializing in Environmental Economics, Labor Economics, Development Issues, Community Wellbeing, and Public Policy. Actively seeking a fulfilling opportunity to apply my extensive background in teaching and research, with the goal of making significant contributions to the advancement of economic and social knowledge and the development of impactful policies.

EDUCATION

Degree	Institution	Year
Ph.D. in Economics	Department of Economics, University of Karachi	2021
M.Phil. in Applied Economics	AERC, University of Karachi	2016
M.Sc. in Economics	Department of Economics, University of Karachi	2009
B.Sc. (Hons) in Economics	Department of Economics, University of Karachi	2008

ACADEMIC EXPERIENCE

Teaching and research experience of 11 years.

Position	Institution	Duration
Assistant Professor (T)	Department of Economics, University of Karachi	Aug 2021 - Present
Lecturer	Department of Economics, University of Karachi	Feb 2013 – Aug 2021
Part-time Co-operative Lecturer	Department of Economics, University of Karachi	Feb 2011 – Dec 2012

TEACHING

Undergraduate Courses

- 1) Microeconomics: Theory & Application
- 2) Pakistan Economics
- 3) Money and Banking

- 4) International Trade and Finance
- 5) Public Finance
- 6) Development Economics
- 7) Computer Orientation & Information Economics

Postgraduate Course

- 1) Development Economics

PEER-REVIEWED JOURNAL ARTICLES

Cumulative Impact Factor: 29+

- 1) Ul-Haq, J., Visas, H., **Umair, M.**, Hye, Q. M. A., & Khanum, S. (2024). Toward Sustainable Development: Exploring the Relationship between Economic Fitness and Carbon Emissions in BRICS. *Sustainable Futures*, 100226. <https://doi.org/10.1016/j.sfr.2024.100226>
- 2) Hussain, Z., Huo, C., Ul-Haq, J., Visas, H., & **Umair, M.** (2024). Estimating the effects of income inequality, information communication technology, and transport infrastructure on transport-oriented household expenditures. *Transportation*, 1-27. <https://link.springer.com/article/10.1007/s11116-024-10486-5>
- 3) Yousuf, M. U., Saleem, M. U., & **Umair, M.** (2024). Evaluating the 7E impact of solar photovoltaic power plants at airports: a case study. *Science and Technology for Energy Transition*, 79, 19. <https://doi.org/10.2516/stet/2024007>
- 4) Yousuf, M. U., Irshad, M. A., & Umair, M. (2024). Identifying barriers and drivers for energy efficiency in steel and iron industries of Karachi, Pakistan: Insights from executives and professionals. *Energy Nexus*, 14, 100284. <https://doi.org/10.1016/j.nexus.2024.100284>
- 5) Yousuf, M. U., **Umair, M.**, Rehan, M., & Umrani, Z. A. (2024). Effect of adjusting orientation for solar energy applications in multiple climatic zones. *Mehran University Research Journal of Engineering and Technology*, 43(1), 70-81. <https://publications.muett.edu.pk/index.php/muetrj/article/view/2587>
- 6) **Umair, M.**, Yousuf, M. U., Ul-Haq, J., Hussain, Z., & Visas, H. (2023). Revisiting the environmental impact of renewable energy, non-renewable energy, remittances, and economic growth: CO2 emissions versus ecological footprint for top remittance-receiving countries. *Environmental Science and Pollution Research*, 1-15. <https://doi.org/10.1007/s11356-023-26812-w>
- 7) Ul-Haq, J., Visas, H., **Umair, M.**, Hussain, Z., & Khanum, S. (2023). Does economic fitness matter in carbon emissions mitigation in BRICS countries?. *Environmental Science and Pollution Research*, 30(19), 55112-55131. <https://doi.org/10.1007/s11356-023-26162-7>
- 8) **Umair, M.**, & Yousuf, M. U. (2022). Evaluating the symmetric and asymmetric effects of fossil fuel energy consumption and international capital flows on environmental sustainability: a case of South Asia. *Environmental Science and Pollution Research*, 30(12), 33992-34008. <https://doi.org/10.1007/s11356-022-24607-z>
- 9) Yousuf, M. U., **Umair, M.**, & Uzair, M. (2020). Estimating the average diffuse solar radiation based on multiple parameters: a case study of arid climate zone of Pakistan. *International Journal of Ambient Energy*, 1-11. <https://doi.org/10.1080/01430750.2020.1712244>

- 10) Yousuf, M. U., Abbasi, M. A., Kashif, M., & **Umair, M.** (2022). Energy, exergy, economic, environmental, ergoeconomic, exergoeconomic, and enviroeconomic (7E) analyses of windfarms: A case study of Pakistan. *Environmental Science and Pollution Research*, 29(44),67301-67324. <https://doi.org/10.1007/s11356-022-20576-5>
- 11) **Umair, M.**, & Naz, L. (2020). Gender pay gap among urban-urban migrant workers: Pakistan's two-tier urban labor market. *Pakistan Journal of Gender Studies*, 20(2), 79-96. <https://doi.org/10.46568/pjgs.v20i2.518>
- 12) **Umair, M.**, & Naz, L. (2019). Occupational health injuries and safety management among internal migrant workers in Pakistan: Challenges and prospects. *Journal of Independent Studies and Research-Management, Social Sciences and Economics (JISR-MSSE)*, 17(2), 35-52. http://jisr.szabist.edu.pk/JISR-MSSE/Publication/2019/17/2/Occupational_Health_Injuries.pdf
- 13) **Umair, M.**, & Naz, L. (2019). The index value trend analysis of rural-urban migration in Pakistan: The current and future perspectives. *Pakistan Journal of Social Sciences (PJSS)*, 39(3), 979-993. <https://www.bzu.edu.pk/PJSS/Vol33No12013/PJSS-Vol39-No3/PJSS-Vol39-No3-21.pdf>
- 14) Yousuf, M. U., & **Umair, M.** (2018). Development of diffuse solar radiation models using measured data. *International Journal of Green Energy*, 15(11), 651-662. <https://doi.org/10.1080/15435075.2018.1525738>
- 15) **Umair, M.**, & Waheed, A. (2017). What drives remittances from Saudi Arabia to Pakistan? Home versus host country's economic conditions. *International Migration*, 55(4), 141-153. <https://doi.org/10.1111/imig.12344>
- 16) **Umair, M.**, Mukhtar, M. M., & Nehal, H. M. S. (2013). A view on prevailing economic and financial system: The money aspect. *Journal of Social Sciences and Humanities*, 52(1), 117- 128. <https://jsshuok.com/oj/index.php/jssh/article/view/192>
- 17) Ali, S. A., Raza, H., & **Umair, M.** (2012). The role of fiscal policy in human development: The Pakistan's perspective. *The Pakistan Development Review*, 51(4), 381-394. <https://www.pide.org.pk/pdr/pdf/PDR/2012/Volume4/381-396.pdf>

BOOK CHAPTER

- 1) Naz, L., & **Umair, M.** (2022). Role of Gender Disaggregate Statistics in Urban Planning and Development in Pakistan. Promoting Statistical Practice and Collaboration in Developing Countries, 407. Edited by O. Olawale Awe, Kim Love, and Eric A. Vance, CRC Press, Taylor & Francis Group, LLC. <https://library.oapen.org/bitstream/handle/20.500.12657/54269/9781000594355.pdf?sequence=1#page=432>

RESEARCH PROJECT

- 1) **Umair, M.** (2021). Wage inequality and rural-urban migration in Pakistan: Evidence from field surveys and secondary data sources, Faculty of Arts & Social Sciences, University of Karachi, Karachi, Pakistan.

INTERNATIONAL CONFERENCES

- 1) Occupational Safety and Health Vulnerability among Construction Workers in Pakistan,

2nd Annual International Conference, 25th-27th March 2022, Institute of Business Administration, Karachi, Pakistan.

- 2) Wage gap among urban natives and rural-urban migrants in Pakistan, 1st International Conference on Economics and Sustainable Development, 2nd-4th April 2021, Centre for Business and Economic Research, Institute of Business Administration, Karachi, Pakistan.
- 3) Gender wage gap in the urban labor market of Pakistan, International Research Conference (DemARS 2020), 24th November 2020, University of Colombo, Colombo, Sri Lanka.
- 4) Gender wage gaps among rural-urban migrants in Pakistan: A decomposition analysis, 15th South Asian Management Forum (SAMF), 27th-29th September 2019, Sukkur IBA University, Sukkur, Pakistan.
- 5) Occupational injuries in the labour market: Analyzing causes and impacts for internal migrants in Pakistan, Annual International Conference on Social Sciences (AICSS 2019), 28th-29th, 2019, Institute of Business Management (IoBM), Karachi, Pakistan.
- 6) Impact of wage inequality on rural-urban migration: Empirical evidence for Todaro's migration model in Pakistan, International Conference on Poverty and Social Inequalities in Pakistan: Inclusive Growth Perspective, HEC-Thematic Research Grant Programme 2015/16, 24th-25th May 2017, University of Sargodha, Sargodha, Pakistan.
- 7) Growth under uncertain international capital flows: Pakistan's recent experience, International Conference on Management, Education and Social Sciences Research, 4th-5th April 2015, Arts Auditorium, University of Karachi, Karachi, Pakistan.
- 8) Role of international capital flows in economic expansion: The recent experience from Pakistan, International Conference on Structural Reforms for Inclusive Development, 17th-18th March 2015, Applied Economics Research Centre, University of Karachi, Karachi, Pakistan.

EDITORIAL POSITION

- 1) Academic Editor, PLOS ONE Editorial Board
April 2024-Present.
https://journals.plos.org/plosone/static/editorial-board?ae_name=Muhammad+Umair

MASTER'S THESES

Supervision

- 1) Naveed Khan (2024-Ongoing), Pollution Haven or Pollution Halo in the Fishing Footprint: Evidence from Pakistan, Department of Economics, University of Karachi, Karachi, Pakistan.

Co-supervision

- 1) Abid Ali (2023-Ongoing), Evaluating the Effect of Air Pollution on Daily Global Solar Radiation Prediction, Department of Mechanical Engineering, NEDUET, Karachi, Pakistan.
- 2) Hafiz Muhammad Usaid Saleem (2022-23), Techno-economic Feasibility of Implementing Solar Photovoltaic Power Plant at Airport, Department of Mechanical Engineering, NEDUET, Karachi, Pakistan.
- 3) Muhammad Kashif (2021-2022), Energy, Exergy, Economic and Environmental (4E) Analysis of Wind Farms in Pakistan, Department of Mechanical Engineering, NEDUET,

Karachi, Pakistan.

- 4) Syed Shujaat (2021-2022), Fine Particulate Matter Forecasting Models: A Case Study for Major Cities of Pakistan, Department of Mechanical Engineering, NEDUET, Karachi, Pakistan.

JOURNAL REVIEWER

- 1) International Journal of Sustainable Energy (Taylor & Francis)
- 2) Current Issues in Tourism (Taylor & Francis)
- 3) Institutions and Economies (University of Malaya)
- 4) The European Journal of Development Research (Springer Nature)
- 5) Chinese Journal of Population, Resources and Environment (Taylor & Francis)
- 6) Journal of Public Affairs (Wiley)
- 7) International Journal of Social Economics (Emerald)
- 8) Discover Sustainability (Springer Nature)
- 9) PLOS ONE (PLOS)
- 10) Pakistan Journal of Applied Economics (PJAE)
- 11) RADS Journal of Business Management (RADS-JBM)

PROFESSIONAL/ADMINISTRATIVE RESPONSIBILITIES

- 1) Focal Person for Seminars on National Youth Helpline at University of Karachi, Higher Education Commission, Islamabad, Pakistan. November 2023 - Present.
- 2) Departmental Students' Advisor, Department of Economics, University of Karachi, Karachi, Pakistan. September 2023-Present.
- 3) Member, Board of Faculty, Faculty of Arts & Social Sciences, University of Karachi, Karachi, Pakistan. November 2015-August 2021.
- 4) Member, Board of Studies, Department of Economics, University of Karachi, Karachi, Pakistan. November 2015-August 2021.
- 5) Focal Person of the Office of Research, Innovation & Commercialization (ORIC) for the Department of Economics, University of Karachi, Karachi, Pakistan. April 2017-Present.
- 6) Assistant Karachi University Laboratory for Interdisciplinary Statistical Analysis and Collaboration (KU-LISA), Karachi, Pakistan. March 2020-July 2021.

CERTIFICATION

- 1) Get Started with Tableau (2024), an online noncredit project authorized by Coursera Project Network and offered through Coursera.
- 2) The Science of Well-Being (2023), an online noncredit course authorized by Yale University and offered through Coursera.
- 3) Tableau Analyst (2020), badge issued by [Tableau](#).
- 4) Tableau Author (2020), badge issued by [Tableau](#).
- 5) Tableau Consumer (2020), badge issued by [Tableau](#).

PROFESSIONAL DEVELOPMENT

- 1) Participated in a Two-day Training of Teachers (TOT) Workshop on the Role of Central bank in the Economy: A Deep Dive into Monetary and Economic Policymaking at the SBP held from September 19 to 20, 2024, at the State Bank of Pakistan, Karachi, Pakistan.
- 2) Participated in a Four-day Workshop on the Fundamentals of Islamic Finance held from October 9 to 12, 2023, at the University of Karachi, Karachi, Pakistan.
- 3) Certificate course in Foundations of Geographic Information System (GIS) for Social Sciences, conducted over five days from August 22 to 26, 2019, at the Applied Economics Research Centre, University of Karachi, Karachi, Pakistan.
- 4) Participated in a three-day workshop on Applied Research in Multi-disciplinary Economics & Multi-dimensional Wellbeing at the Applied Economics Research Centre, University of Karachi, Karachi, Pakistan, held from July 8-10, 2019.

RESEARCH INTERESTS

- 1) Environmental Economics
- 2) Labor Economics
- 3) Development Issues
- 4) Community Wellbeing
- 5) Public Policy

SOFTWARE PROFICIENCY

- 1) EViews: Competent in utilizing EViews for statistical analysis and forecasting.
- 2) Stata: Skilled in performing data analysis using Stata.
- 3) Tableau (Tableau Prep and Tableau Desktop): Experienced in creating insightful visualizations and data preparations using Tableau.
- 4) MS Office: Proficient in using Microsoft Office applications, including Word, Excel, and PowerPoint.

PERSONAL DETAIL

Father's name:	Muhammad Yousuf
Nationality:	Pakistani
Religion:	Islam
Marital status:	Married
Date of birth:	February 10, 1987
Place of birth:	Karachi, Pakistan

REFERENCES

Will be furnished on request.
