

Dr. Mirza Faizan Ahmed



Contact information

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Academic positions

Assistant Professor of Economics & Finance, Department of Economics & Management Sciences, NEDUET, March 2018 to date

Lecturer of Computational Finance, Department of Mathematics, NEDUET, February 2017 - March 2018

Education

PhD in Economics (2023), Applied Economics and Research Centre (AERC), University of Karachi,

MAS in Applied Economics (2013– 2014), Applied Economics and Research Centre (AERC), University of Karachi

MBA in Finance (2007– 2008), Karachi University Business School (KUBS), University of Karachi

Major areas of interest

Forecasting, Economic and Financial Analysis, Financial Markets & Institutions, Financial Modelling, Behavioral Finance, Public Finance, and Institutional Development

Research experience

Worked as consultant / team member on the following research assignment

- **‘Pakistan Energy Outlook 2025’** with the Petroleum Institute of Pakistan – PIP (Feb 2025 – June 2025) as Principal Investigator
- **‘Navigating the Energy Landscape: A Case Study on ADB Financing Trends and Safeguarding Policies in Pakistan's Energy Sector’** with the Indus Consortium (Feb 2024 to March 2024)
- **‘Energy Finance Outlook – A case of Pakistan’** with the Indus Consortium (Feb 2023 to May 2023)
- **‘Pakistan Energy Outlook 2022’** with the Petroleum Institute of Pakistan – PIP (Jan 2023 – Mar 2023)
- **‘In-depth Analysis of Green Banking Guidelines of the State Bank of Pakistan’** with the Indus Consortium (Feb 2022 to May 2022)
- **‘Sindh IWRM roadmap with a focus on Keenjhar Lake’** for economic valuation component, funded by the World Bank (Jan 2020 – Mar 2021)
- **‘Pakistan Energy Outlook 2020’** with the Petroleum Institute of Pakistan – PIP (Sep 2020 – Jun 2021)

- **‘Pakistan Energy Outlook 2019’** with the Petroleum Institute of Pakistan – PIP (Feb 2019 – Sep 2019)

Research Assistant (July 2014 to January 2017) on

- **Comprehensive Master Planning for Water Supply, Sewerage, Drainage, and Wastewater Treatment System in Rawalpindi** – Government of Punjab
- **Designing of Provincial Finance Commission Award for Sindh** – Government of Sindh
- **Research study for Sindh province for the preparation of National Finance Commission Award** – Government of Sindh
- **Institutional analysis, Economic and Financial Analysis of Water Supply, Sanitation, and Drainage, Somalia** – The United Nations Children’s Fund (UNICEF)
- **Institutional Development and Capacity Building of Ministry of Public Works, Afghanistan** – Asian Development Bank (ADB)

Research Papers

Batool, K., Fatima, U., & Ahmed, M. F. (2025). Trend Prediction of DJIA index based on News Extraction from Yahoo Finance. *International Journal of Computer Applications*, 975, 8887.

Naz, J., Ahmed, M. F., & Khan, R. A. (2024). Pakistan Energy Outlook for Next 25 Years. *Bulletin of Business and Economics (BBE)*, 13(2), 563-572.

Ahmed, M. F. (2024). Impact of Entrepreneurship on Economic Growth. *Pakistan Journal of Applied Social Sciences*, 15(1), 17-41.

Khan, R. A., Ahmed, M. F., & Ahmed, S. (2024). Green Revolution in the Banking Sector: A Case of the Central Bank of Pakistan. In *Governance and Policy Transformations in Central Banking* (pp. 261-279). IGI Global.

AHMED, M. F., AHMED, S., & SIDDIQUI, T. A. (2023). MODELLING GOVERNMENT SPENDING IN EXTERNAL FINANCING AND RESERVES WITH ESTIMATION FOR PAKISTAN. *Pakistan Journal of Applied Economics*, 33(2), 175-191.

Khan, R. A., Ahmed, M. F., & Ghoor, J. N. (2023). Estimating Sectoral Energy Demand in Pakistan. *iRASD Journal of Economics*, 5(4), 890-904.

Raza, R. A. K., Faizan, M. F. A., & Naz, J. (2023). Analysis of Sectoral Energy Demand in Pakistan. *Reviews of Management Sciences*, 5(1), 63-77

Batool, K., Ahmed, M. F., & Ismail, M. A. (2022). A Hybrid Model of Machine Learning Model and Econometrics’ Model to Predict Volatility of KSE-100 Index. *Reviews of Management Sciences*, 4(1), 225-239. Retrieved from <https://rmsjournal.com/index.php/admin/article/view/125>

Ahmed, M. F. (2019). Estimating proportion of noise traders and asset prices. *Business Review*, 14(2), 1-12. Retrieved from <https://ir.iba.edu.pk/businessreview/vol14/iss2/1>

Teaching Experience

Time Series Analysis and Forecasting – MS (Data Science)
Financial Management – MS (Computer Science and Information Technology)
Financial Management & Risk – MS (Economics & Finance)
Investment Analysis and Portfolio Management – MS (Economics & Finance)
Microeconomic Theory – MS (Economics and Finance)
Corporate Finance – MS (Economics and Finance)
Financial Engineering – BS (Computational Finance)
Stochastic Models in Finance – BS (Computational Finance)
Continuous-Time Finance – BS (Computational Finance)
Discrete-Time Finance – BS (Computational Finance)
Financial Derivatives – BS (Computational Finance)
Financial Modeling – BS (Computational Finance)
Stochastic Calculus – BS (Computational Finance)
Business & Economic Forecasting – BS (Management Sciences)
Financial Risk Management – BS (Management Sciences)
Macroeconomics – BS (Economics & Finance)
Mathematical Economics - BS (Economics & Finance)
Econometrics - BS (Economics & Finance)
Applied Economics – BS (Economics and Finance)
Public Finance – BS (Economics and Finance)
Business Research Methods – BS (Economics and Finance)

University services

- In charge of the Department of Economics and Management Sciences, NEDUET (May 2024 to date)
- Postgraduate Coordinator, Department of Economics & Management Sciences, NEDUET (March 2023 to date)
- Area Coordinator, Department of Economics & Management Sciences, NEDUET (May 2018 to date)
- Secretary / Member, Board of Studies (BoS), Department of Economics & Management Sciences, NEDUET (June 2018 to date)
- Member Board of Studies (BoS), Department of Mathematics, NEDUET (March 2024 to date)
- Member of the Board of Faculty (BoF), Architecture and Sciences, NEDUET (July 2023 to date)
- Member of the Board of Faculty (BoF), Architecture and Management Sciences, NEDUET (2021 to July 2023)
- Member of the Board of Review, CCEE, NED Academy, NEDUET (January 2024 to date)

Other professional experience

Worked as Research Analyst (Jan 2010 to June 2014) for the international foreign exchange market.

Date: 01-JUL-25