Provash Sarker

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EDUCATION

Ph.D., Economics, Wuhan University, Wuhan, China, 2024
MBA., Finance, University of Dhaka, Dhaka, Bangladesh, 2014
BBA., Finance, University of Dhaka, Dhaka, Bangladesh, 2013

RESEARCH INTERESTS

Quantitative Macroeconomics | Geoeconomics | Applied Microeconomics | Environmental & Energy Economics

CURRENT POSITON

Joint Director, Bangladesh Bank, 2022–Present

- Leading research on climate-related financial risks, sustainability and macro-financial linkages.

EMPLOYMENT

Deputy Director, Bangladesh Bank, 2018–2022

- Contributed to banking policy and regulation for financial institutions and financial stability

Assistant Director, Bangladesh Bank, 2014–2018

- Contributed to monetary policy making of Bangladesh's banking industry

RESEARCH EXPERIENCE

Research Assistant, Wuhan University, 2022 to 2024
Project: *Nonlinearity in Financial Development and Urbanization*

- Built a composite financial access index using the entropy method.
- Applied panel threshold models and asymmetry analysis in 30 emerging economies.

TECHNICAL SKILLS

Econometric Modeling: Proficient in OLS, time-series, and panel data analysis
Software and Tools:

1. **R**: Skilled in econometric analysis, visualization (tidyverse, ggplot2)
2. **Stata**: Proficient in regression analysis, panel data models, and statistical testing for economic datasets
3. **Machine Learning**: Causal Machine Learning (Double ML, causal forests), Lasso Regression

TEACHING EXPERIENCE

Teaching Assistant, Wuhan University, 2018–2020
School of Economics and Management

1. Conducted weekly tutorial sessions for undergraduate students in Econ 101 and 102
2. Assisted in grading and providing feedback on problem sets and examinations
3. Led computer lab sessions teaching R and Stata for empirical analysis
4. Delivered guest lectures on "Climate Economics and Financial Markets" for graduate-level macroeconomics courses
5. Supervised undergraduate thesis projects on topics related to financial development and emerging market economics

SELECTED PUBLICATIONS

1. "Quantile Effects of Climate Policy Uncertainty, Economic Policy Uncertainty, and Interest Rates on REIT Returns: Evidence From the United States" with Chen Xihui (2025), *Economic Notes,* 54(2).

2. "Inflation in Tourism Sector: New Evidence From Climate and Geopolitical Spillover Effects" with Palaios, P. & Leventis, F. (2025), *International Journal of Tourism Research, 27(5)*.

3. "Tariffs and Turmoil: Energy Market Volatility Amid US-China Trade Escalation" Sarker, P, K., (2025) forthcoming at *Energy Research Letters*.

4. "Real-world asset tokens and commodities: Static and dynamic linkages" with Tiwari, A. K., Abdullah, M. & Abakah, E. J. A. (2025), *China Accounting and Finance Review.*

5. "Nonlinear Effects of Climate Policy Uncertainty on Carbon Allowance and ESG Prices: Evidence From the US" Sarker, P. K, (2024), *Energy Research Letters*.

6. "Tail risk intersection between tech-tokens and tech-stocks" with Abdullah, M., Abakah, E.J.A., Tiwari, A.K., & Rehman, M.Z. (2024), *Global Finance Journal*, (61).

7. "Asymmetric effects of geopolitical risks and uncertainties on green bond markets" with Tang, Y., Chen X., & Baroudi, S. (2023), *Technological Forecasting and Social Change*, (189).

8. "The Asymmetric effects of energy inflation, Agri-Inflation and CPI on agricultural output: evidence from the NARDL and SVAR models in the UK" with Soliman M. A., Lau, C.K., Cai, Y., & Dastgir, S., (2023). *Energy Economics*, (126).

9. Short- and Long-Term Interactions Between Bitcoin and Economic Variables: Evidence from the US. with Wang, L. & Bouri, E. (2022), *Computational Economics*, 61, 1305-1330.

10. "Asymmetric effects of climate policy uncertainty and energy prices on bitcoin prices" with Lau, C. K. M., & Pradhan, A. K. (2023). *Innovation and Green Development*, *2*(2).

11. "Asymmetric effects of climate policy uncertainty, geopolitical risk, and crude oil prices on clean energy prices" with Bouri, E., & Lau, C.K. (2022), *Environmental Science and Pollution Research*, (30) 15797–15807.

12. "Co-movement and Granger causality between Bitcoin and M2, inflation and economic policy uncertainty: Evidence from the U.K. and Japan" with Wang L., (2022). *Heliyon* 8(10).

REFEERING ACITIVITIES

Refeering: Energy Economics, Finance Research Letters, Computational Economics, Applied Economics, International Review of Economics and Finance, Technological Forecasting and Social Change, Economic Modelling, Economics Analysis and Policy, Review of Development Economics, The Energy Journal, Journal of Institutional Economics.

Advisory Board Member: *Heliyon* Journal, Elsevier, May 2024
Program Committee Member: European Financial Management Association (EFMA), Greece, 2025

AWARDS

1. MOFCOM Fellowship, Ministry of Commerce, P.R. China — 2018
2. Outstanding International Student Scholarship, Wuhan University — 2019
3. Governor's Award, Bangladesh Bank — 2015

LANGUAGES AND NATIONALITY

English (Fluent) | Bangla (Native)

CERTIFICATIONS

1. "**Understanding Research Methods**" – University of London, January 2024.
2. "**Econometrics: Methods and Applications**" – Erasmus University Rotterdam, May 2023.
3. "**A Crash Course in Causality: Inferring Causal Effects from Observational Data**" – University of Pennsylvania, June 2023.
4. "**Energy Economics and Environment and Policy**" – ADB Institute, May 2023.
5. "**Climate Change and Sovereign Risk**" – ADB Institute, May 2023.
6. "**Green Investments: Renewable Energy**" – ADB Institute, May 2023.
7. "**The Role of Central Banks and Financial Supervisory Authorities in Governing Sustainable Finance**" – ADB Institute, May 2023.
8. "**Monetary Policy in the Asia Pacific**" – The Hong Kong University of Science and Technology, August 2023.
9. "**Macroeconomics of Climate Change: Science, Economics, and Policies**" – International Monetary Fund, August 2023.
10. "**Macroeconomics of Climate Change: Climate Risks for the Financial Sector**" – International Monetary Fund, August 2023.
11. "**Introduction to Sustainable Finance Taxonomy**" – United Nations Climate Change (UN CC), August 2023.
12. "**The Paris Agreement on Climate Change as a Development Agenda 2023**" – United Nations, October 2023.
13. "**Economics and Policies of Climate Change**" – EDHEC Business School, February 2024.
14. "**Cities and Climate Change**" – United Nations HABITAT, August 2024.
15. "**Global Energy and Climate Policy**" – University of London, September 2024.