Md Ahad Khan

Ph.D. Economics (c)

Address: 1460 Jayhawk Boulevard.

Snow Hall, Room# 227 Lawrence, KS, 66045

(785) 226 2469

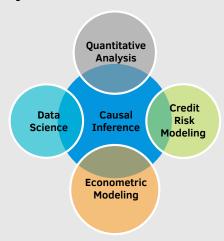


ahadzaman@ku.edu



/in/ahadzkhan/

Key Skills



Programming

R - (Tidyverse, Ggplot, Sparklyr)

Python- [PCAP Certified]

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Education

Ph.D., Economics

University of Kansas, Lawrence, KS Aug,2018- Aug,2023(Expected)

M.A., Bank Management

Bangladesh Institute of Bank Management 2011-2012 | Dhaka, Bangladesh

B.Sc(Hons)., Physics

University of Dhaka 2004-2008 | Dhaka, Bangladesh

Experienced applied economist with a background in causal inference, model development, and machine learning techniques, as well as five years of banking experience in credit risk with working knowledge of accounting and corporate finance as a credit analyst

Experience

May 2022 - Research Assistant

University of Kansas

- Present
- Environmental Poliy Lab Economics Department
- Designed econometric models that identify "CWA reduces 62.5 percent toxic emission substitution".
- Developed a Simulation of regulatory stringency (CMP) to test econometric models.
- · Institute for Policy & Social Research
- Cleaned and processed data (45GB+) using R Sparklyr & MySql.
- Performed statistical, quantitative, and qualitative analysis.

Jan 2010 -Aug 2015

Credit Analyst

Prime Bank Ltd, Dhaka, Bangladesh

- Credit Risk Management
- Developed credit risk rating / score cards for the credit appraisals
- Generated predictive models with default and financial data
- Documentation and testing for Probability of Default, Expected loss at Default models
- Model Risk Management
- Analyzed the risk weighted assets (rwa) forecasts in the context of CCAR (Basel-II).
- Provided expertise on the regulatory capital rules to risk, and business-aligned teams.

Research

Doctoral Dissertation: Application of Causal Inference in Environmental Policy Evaluation.

- Does Clean Water Act reduce regulation induced toxic substitution (JMP)
- Impact of High Priority Violation Enforcement on firms' toxic water discharge and substitution
- How far is too far: Impact of distance between NAAQS violating monitor and facility emission

Econometric Tools: • Staggered DiD • Synthetic Control • Stacked Event Study. Machine Learning Tools: • Random forest • XGBoost • KNN • PCA

Projects

- Credit card fraud detection with machine learning tools in python.
- Environmental violation detection with ML approaches in python.

Presentations

AERE 2022 Summer Conference (June 1 - 3, 2022), AERE @ SEA 2022 (November 19-21,2022)

Scholarships & Teaching

University of Kansas

- Edmund Learned Scholarship (Summer 2022)
- Oswald Summer Scholarship (Summer 2019)
- Graduate Teaching Assistant (Fall 2018 Spring 2022)