

<https://www.linkedin.com/in/rakshanda-khan/>

<https://github.com/rakshandakhan19/khanr>

**OBJECTIVE** : Highly analytical and research oriented analyst with in-depth knowledge of database types, research methodologies; and big data wrangling/visualization. Seeking an opportunity that will allow me to utilize my technical knowledge to formulate innovative data driven solutions.

## SKILLS

- R and R Shiny
- STATA
- SQL
- SurveyCTO
- Tableau
- Python
- Economic Impact Evaluation
- Project Management
- Data Modelling and Analysis

## EDUCATION

**University of Cincinnati, Carl H. Lindner College of Business, Ohio, United States**

Aug 2018- Dec 2019

*Master of Science in Applied Economics*

GPA: 3.939/4.0

- **Award:** Wolfgang Mayer Prize for Academic Excellence
- **Relevant Coursework:** Time Series Econometrics, Spatial Econometrics, Panel Data Econometrics, Game Theory, Advanced Macroeconomics, Urban and Regional Economics
- **Masters Thesis:** Investigating the Shape of the Environmental Kuznet's Curve using static and dynamic panel data models

**McGill University, Quebec, Canada**

Sep 2012-Apr 2016

*Bachelor of Arts, Economics and International Development*

- **Relevant Coursework :** Econometrics, Labor Markets and Wages, Natural Resource Economics, Topics in International Development, Introduction to Behavioral Economics, International Trade

**International School Manila, Manila, Philippines**

Aug 2008-May 2012

*International Baccalaureate Diploma*

## EMPLOYMENT

**Innovations for Poverty Action (IPA), Dhaka, Bangladesh**

March 2022-Present

*Research Associate*

- Researcher for the Engaging Women in Mobile Money Markets project with Bkash agents and employees . This is a Randomized Controlled Trial (RCT) conducted in collaboration with the World Bank, BKash, BRAC, University of Maryland and the Graduate Institute of Geneva (Current)
- *Lead cross-functional research teams* of research analysts to finalize data collection tools (surveys and questionnaires) essential for launching the pilot and follow up studies
- Preparing the *Do files* necessary for *preloading* data, *back end coding* and running *High Frequency Checks (HFCs)* to assist with survey implementation using STATA
- Created actionable insights by leading *parallel surveys* implemented for 4000+ respondents using advanced STATA techniques such as *loops*, *local* and *global macros*, processing data variables and *time series operators*
- Successfully reviewed and reduced the survey firm's budget by \$65,000
- Created 10+ forms using *SurveyCTO* and *derived* solutions to solve issues with the CAPI
- *Delegate* a team of 2 research analysts
- *Training* and *supervising* the field-based team and the data management team include hosting sessions to train 60+ enumerators
- Providing *timely progress reports* to key stakeholders including principal investigators, research partners and funding agencies
- *Monitoring* project expenditures and project timeline to ensure successful implementation of the surveys
- Re-evaluate data collection tools using *SurveyCTO* and *STATA*

**Centre For Policy Dialogue (CPD), Dhaka, Bangladesh**

July 2021-Feb 2022

*Research Associate*

- Researcher for *The Asia Foundation's* project on "Improving Public Sector Transparency and Accountability in Bangladesh" which is published as a working paper called "Improved Fiscal Data in Bangladesh"
- Derive a *methodological framework* to assess the quality of fiscal data (public expenditure, revenue and deficit)
- *Synthesis* and *mapping* of Bangladesh's fiscal data to derive the current state of affairs and the subsequent challenges
- Use *qualitative research method* tools such as *Expert Group Meetings (EGMs)* and *Key Informant Interviews (KIIs)* to survey key stakeholders including *policymakers (members of parliament)*, *government officials*, *journalists*, *academicians*, *development*

*practitioners and civil society members*

- Develop *questionnaires* to be used in the KIIs, EGMs and stakeholder interviews
- *Triangulate* and *evaluate* the findings from desk review, stakeholders' interviews, KIIs and EGMs
- Analyze the fiscal ecosystem of Bangladesh, India, Sri-Lanka, Uganda and Nigeria through a *cross-country* lens by reviewing 300+ *government documents*
- Provide background research for a discussion jointly hosted by CPD, the Economic Reporters' Forum (ERF) and The Asia Foundation on fiscal data issues which was covered by *50 newspapers*
- Create materials (PowerPoint presentations) for a *journalists' training workshop* on Bangladesh's fiscal data ecosystem which was attended by 30+ journalists

**International Center for Climate Change and Development (ICCCAD), Dhaka, Bangladesh**

Mar 2021-May 2021

*Research Associate*

- Supported the development of *policies* that will address country specific problems and needs in collaboration with the *government* and other *stakeholders*
- Provide assistance in preparing high quality *concept notes* and *policy briefs* that aid in building a programmatic approach towards combatting the loss and damage caused by climate change
- Assisted in *knowledge management* of the Loss and Damage portfolio by providing well researched presentations
- Actualized the shape of the Environmental Kuznet's survey spatially by using *GIS mapping* materials

**UC Economics Center, Ohio, United States**

Mar 2020-Sept 2020

*Research Associate*

- Quantified the impacts of early childhood intervention programs on Ohio's children ages 0-5 by performing a *cost-benefit analysis* of 600,000 American Household Survey's data points spanning a myriad of economic, social and demographic indicators with the help of R and Microsoft Excel
- Completed a case study to understand all possible channels by which early childhood development affects the economic environment in the state of Ohio
- Generated *internal and external teams* to generate *policy advocacy reports* for organizations such as Groundwork Ohio and Lighthouse to advocate for the economic and community benefits that accrue to Ohio of investing in early childhood development programs
- Calculated the *fiscal impacts* stemming from reliable private transportation that accumulate within the Cincinnati Metropolitan area using R
- Deployed new and advanced time-saving data visualization techniques by utilizing *Tableau Desktop*
- Designed an interactive dashboard by employing *Tableau's data blending, filters (local and global), actions and hierarchies* features to analyze the financial literacy requirement of 300 county schools located in Ohio
- Qualified the impacts of Cincinnati USA Regional Chamber of Commerce sponsored events on talent retention and attraction by presenting extensive *literature reviews*

**Charles L Shor Foundation, Ohio, United States**

Sept 2019-Nov 2019

*Research and Technical Analyst*

- Created a rich Tableau dashboard to visualize economic insights. Created side by side bars, stacked bars, heat maps and a multi-layered map to deliver insightful results

**University of Cincinnati, Carl H. Lindner College of Business, Ohio, United States**

Aug 2018-May 2019

*Graduate Teaching Assistant*

- Hosted discussion/problem sessions, led self-instructed review sessions and was in charge of grading exams/final submissions for an undergraduate Economics class consisting of 188 students

**BRAC University, Dhaka, Bangladesh**

Sep 2017-Aug 2018

*Research Assistant*

- Applied *time series regression* analysis to model the relationship between remittances and investment on a sample of 20,000 data points using *STATA* with a 95% accuracy
- Synthesized data into comprehensive written reports rate in preparation of the book titled "Bangladesh : Migration, Remittances and Development"
- Analyzed the Bangladeshi informal economy and vocational training curricula to apply for a research grant of \$83,000 funded by the Global Challenges Research Fund
- Drafted *technical evaluations* of cost proposals including *cost/technical tradeoff* analysis to develop cost and operational effectiveness for a budget of \$23,000

**Confederation of Indian Industry (CII), Dhaka, Bangladesh**

Sep 2017-Oct 2017

*Research Associate (Independent)*

- Assisted in drafting a country report focusing on the size and potential of Bangladesh's E-Commerce industry and presented the findings to key stakeholders at CII's digital workshop

## **AIESEC McGill, Quebec, Canada**

*Director*

Jan 2014-Jun 2015

- Supervised a group of 15 McGill students and successfully matched them with internship opportunities abroad
- Supported the training department with new materials for end users on *Salesforce.com*

## **Acid Survivors Foundation, Dhaka, Bangladesh**

*Case Study Writer*

June 2011 – August 2011

- Conducted interviews of 2 acid attack survivors, and drafted *case studies* based on their experiences
- *Translated 22 case studies* from Bengali to English

## **Renovate to Educate, Manila, Philippines**

*Teacher*

June 2008 – August 2009

- Developed *innovative approaches* to merge interactive learning techniques for a group of 30 underprivileged students ages 5-8
- Aided in building and painting furniture for 3 classrooms

## **PUBLICATION**

Banu, N., Rahman, S. & Khan, R., (2018). Freddy's coffee shop: Expanding the coffee business in Bangladesh. In SAGE Business Cases. 2019. doi-10.4135/9781526459763 - <https://github.com/rakshandakhan19/khanr/tree/master/Publication>

Bhattacharya, D., Khan, T., Kamal, M. & Khan, R., (2023). Improved Fiscal Data in Bangladesh for a Transparent and Accountable Public Sector. In Centre for Policy Dialogue, 1 Feb. 2023, <https://cpd.org.bd/wp-content/uploads/2023/01/Improved-Fiscal-Data-in-Bangladesh-for-a-Transparent-and-Accountable-Public-Sector.pdf>.

## **ACADEMIC PROJECTS**

- **Investigating the Shape of the Environmental Kuznet's curve (Graduate Thesis)** Evaluated the relationship between environmental degradation, economic growth and urbanization using static (random effects & fixed effects) and dynamic (generalized method of moments) panel data models by analyzing data from 129 countries spanning 27 years using R
- **Remittance Change During Crisis:** Performed a two way fixed effects panel data model to investigate the factors that affect remittances during natural disasters and conflicts for 76 developing countries
- **Income Inequality in Indiana, Kentucky and Ohio :** Evaluated the factors that impact the GINI index of over 300 U.S. counties using fixed effects pooled OLS, quantile, two way fixed effects and quantile models

## **LICENSES**

**CITI Program**

Mar 2022- Mar 2025

*Social-Behavioral-Educational Researchers*

