

## SYED JAFAR RAZA RIZVI

Suite# 6, 1912 Main Street | Saskatoon, SK | S7H 0L8 | 306.716.7880 |

[rizvi.sbi20@gmail.com](mailto:rizvi.sbi20@gmail.com), [cfr954@usask.ca](mailto:cfr954@usask.ca); [LinkedIn](#); [ResearchGate](#); [GitHub](#)

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I am a dedicated and self-motivated individual with a passion for statistics. I completed my Bachelor's study and Master's in Statistics, Biostatistics, and Informatics from the University of Dhaka, Bangladesh.

I joined as a Research Officer at the International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), which is one of the most reputable research organizations in Bangladesh after completion of my Master's degree, and was promoted to Senior Research Officer in the same organization next year. I worked with large populations and health facility information, including GIS mapping data of health facilities, and performed statistical and geospatial analyses. After that, I joined as a Statistician in projects named "AMANHI: Alliance for Maternal and Newborn Health Improvement", "Assessment of the Effectiveness of Pneumococcal Conjugate Vaccine-10 (PCV10) in Bangladesh," and "Pneumococcal Vaccine (PCV) Impact Assessment in Bangladesh" in Johns Hopkins University, USA (Bangladesh office).

I have been working as a Research Assistant with the Canadian Centre for the Study of Co-operatives (CCSC), within the Johnson Shoyama Graduate School of Public Policy (JSGS) and Saskatchewan Population Health and Evaluation Research Unit (SPHERU) at the University of Saskatchewan for more than 2 years. During this period, I worked on text-based data, where I managed it and applied different types of machine learning models such as dictionary application, unsupervised topic modelling, and network analysis.

During the period of my tenure, I have gained experience in data cleaning, advanced statistical analysis, and data visualization. In addition, I am skilled in R, SAS, and SQL in data management and analysis, and I have gained applied experience in Demography, Epidemiology, Biostatistics, Bioinformatics, eHealth and mHealth, big data, geospatial analysis, and web-based data visualization by using RShiny. I have also managed data of 700,000 women and their children and analyzed bimonthly follow-up data, including calculating mortality rate and hospital incidence rate. I have coauthored seven manuscripts published in different journals, including PLOS ONE, British Medical Journal (BMJ), BioMed Central (BMC), etc. I have attended several International Conferences on Public Health and Health Systems, which helped me to improve my knowledge in Health Research.

I am a highly motivated, hard-working person with strong ethics with immense interest in statistics. My goal is to get advanced statistical skills in the field of applied research on Health, data science, and machine learning to establish myself as a successful researcher.

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## STATISTICAL ANALYST | BIOSTATISTICIAN | HEALTH RESEARCHER

Skilled professional with more than ten years of practical experience in monitoring, validating, and assessing vital statistics data such as mortality rate, birth rate, immunization coverage, and incidence and prevalence of chronic diseases. preparing descriptive statistical analyses and performing analysis on data regarding demography, epidemiology, biostatistics, eHealth, and mHealth along with geo-spatial analysis and web-based data visualization. Outstanding academic training included professional training in Epidemiology and Biostatistics at Johns Hopkins Bloomberg School of Public Health, supplemented by in-depth experience in quantitative research and data management. Preparing tables and graphs for epidemiological reports and developing annual and ad hoc epidemiological reports Advance skills in SQL, STATA, R & RStudio, and SAS. Professional understanding of health-related data analysis, public health program design, performance monitoring, and evaluation. Embodies strong analytical and troubleshooting skills.

### – CORE STRENGTHS & KNOWLEDGE –

- |                                |                            |                                  |
|--------------------------------|----------------------------|----------------------------------|
| ◆ Data Management              | ◆ Epidemiological Analysis | ◆ Interactive Dashboard Building |
| ◆ Surveillance Data Monitoring | ◆ Data Forecasting         | ◆ R-programing & RStudio         |
| ◆ Survey Design & Analysis     | ◆ Geo-spatial Analysis     | ◆ STATA                          |
| ◆ Statistical Analysis         | ◆ Data Visualization       | ◆ SAS                            |

### – EDUCATION –

- M.Sc. in Community Health & Epidemiology | University of Saskatchewan | Saskatoon, Canada | 2023-
- M.S. in Statistics, Biostatistics & Informatics | University of Dhaka | Dhaka, Bangladesh | 2009 – 2010
- B.S. in Statistics, Biostatistics & Informatics | University of Dhaka | Dhaka, Bangladesh | 2005 - 2009

### – EXPERIENCE–

#### **Research Technician**

**April 2025 – Present**

*Community Health and Epidemiology, University of Saskatchewan | Saskatoon, Canada*

- Data analysis (Coding, interpretation, and synthesis).
- Collaborating with multidisciplinary team.
- Knowledge translation and mobilization.
- Contributing to dissemination of results, including collaborating on papers, infographics, posters, conference presentations

#### **Graduate Research Assistant**

**May 2025 – Present**

*Community Health and Epidemiology, University of Saskatchewan | Saskatoon, Canada*

- Data analysis (Coding, interpretation, and synthesis).
- Knowledge translation and mobilization.
- Contributing to dissemination of results, including collaborating on papers, infographics, posters, conference presentations.

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### **Graduate Research Assistant**

**September 2024 – December 2024**

*College of Pharmacy & Nutrition, University of Saskatchewan | Saskatoon, Canada*

- Data collection.
- Knowledge translation and mobilization.

### **Research Assistant**

**January 2023 – March 2025**

*Saskatchewan Population Health and Evaluation Research Unit (SPHERU), University of Saskatchewan | Saskatoon, Canada*

- Data analysis (Coding, interpretation, and synthesis).
- Collaborating with multidisciplinary team.
- Knowledge translation and mobilization.
- Contributing to dissemination of results, including collaborating on papers, infographics, posters, conference presentations

### **Research Assistant**

**November 2021 – August 2023, May 2024-June 2025**

*Canadian Centre for the study of Co-operative (CCSC), within the Johnson Shoyama Graduate School of Public Policy (JSPP), University of Saskatchewan | Saskatoon, Canada*

- Gather, digitize (if necessary), and organize textual samples by using R
- Assist with coding to analyze textual samples in R
- Identify key policy actors engaged in topic and model networks amongst these actors
- Expand on an existing literature review including identification, categorization, analysis, summarizing, and synthesizing of the relevant academic and any grey literature related to fiscal rules, agenda setting, and computerized content analysis.
- Scan the literature to help build out the keyword search terms to identify an initial sample of fiscal rule texts and then develop and prepare a dictionary that can be applied to the text samples.
- Manage and analyse administrative data using the Health Research Data Platform- Saskatchewan (HRDP-SK).

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### **Statistical Analyst, Monitoring, Evaluation and Learning (MEL)**

**March 2019 – September 2022**

*Johns Hopkins University, Centre for communication program | Baltimore, USA*

- Conduct inferential statistical analysis of data gathered through evaluation surveys, monitoring activities, and primary and secondary sources.
- Provide input into the PAPI (pen-and-paper personal interview) and/or CAPI (computer-assisted personal interviewing) designed for data capture, data structure and organization.
- Supervise research agencies to prepare properly labelled data for descriptive and statistical analysis.
- Validate the program Syntax (STATA and SPSS) provided by the research agencies for univariate and bivariate analysis.
- Provide support and perform quantitative analysis and sophisticated multivariate analysis on survey data as required for the project.
- Develop methodologies, tools, and techniques for conducting community-based surveys.
- Manage the DHIS-2 platform to maintain and visualize the weekly, monthly, quarterly, and annual monitoring data.

### **Statistician**

**July 2016 – December 2018**

*Johns Hopkins Bloomberg School of public health | Baltimore, USA*

- Worked as an **analyst** in the project entitled, “AMANHI: Alliance for Maternal and Newborn Health Improvement”. Responsibilities included cleaning and managing follow-up data and analyzing longitudinal data including survival rate and incidence rate. Predicting the impact of selected factors and producing summary reports.
- Worked as an **analyst** in the project entitled, “Assessment of the Effectiveness of Pneumococcal Conjugate Vaccine-10 (PCV10) in Bangladesh” and “Pneumococcal Vaccine (PCV) Impact Assessment in Bangladesh”. Responsibilities included cleaning and managing follow-up data and analyzing longitudinal data including prevalence rate and incidence rate. Predicting the impact of the factors and producing summary reports.
- Worked as **Data Manager** on the surveillance database. Responsibilities included managing data of 700,000 women and their children, creating scripts of the database using MySQL, and analyzing bimonthly follow-up data including calculating mortality rate and hospital incidence rate.
- Developed the analysis plan and made recommendations for public policy based on data analysis.

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### Senior Research Office

August 2014 – June 2016

*International Centre for Diarrhoeal Disease Research, Bangladesh | Dhaka*

- Worked as **Senior Research Officer** in the project entitled “Exploring healthcare landscape in Urban Bangladesh: The health facility mapping of the municipality (Dinajpur, Rajshahi and Chittagong) in Bangladesh”. Responsibilities included monitoring and managing tab-based data collection including Geographical Information System (GIS) data, developing field data activity plans, providing hands-on training to data collectors, managing and analyzing the data and writing reports based on analysis.
- Worked as **Senior Research Officer** in the project entitled “Exploring healthcare landscape in Urban Bangladesh: The health-seeking behavior of Tongi semi-urban community in Bangladesh”. Responsibilities included monitoring and managing tab-based data collection, developing field data activity plans, providing hands-on training to data collectors, managing, and analyzing data and writing the reports based on analysis.
- Performed quantitative research tools, such as regression analysis, fundamental analysis, and geo-spatial analysis.
- Managed data on MySQL and created scripts for the database to convert data into a compatible format such as Excel, CSV, SPSS, STATA and R.
- Generated ideas and analyzed data for scientific manuscript writing.

### Research officer

April 2013 – July 2014

*International Centre for Diarrhoeal Disease Research, Bangladesh | Dhaka*

- Worked as **Research Officer** in the project entitled “Exploring healthcare landscape in Urban Bangladesh: The health facility mapping of the municipality (Sylhet, Dhaka, and Narayanganj) in Bangladesh”. Responsibilities included monitoring and managing tab-based data collection including Geographical Information System (GIS) data, developing field data activity plan, managing and analyzing the data, and writing the report based on analysis.
- Worked as **Research Officer** in the project entitled “Exploring healthcare landscape in Urban Bangladesh: The health-seeking behavior of Sylhet urban slum community in Bangladesh”. Responsibilities included monitoring and managing tab-based data collection, developing field data activity plans, managing and analyzing data, and writing the report based on analysis.
- Managed data on MySQL and created scripts of the data based to convert data into a compatible format such as Excel, CSV, SPSS, STATA, and R.
- Performed quantitative research tools, such as regression analysis, fundamental analysis and, geo-spatial analysis.

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### –AWARDS & RECOGNITIONS–

- Scholarship to attend 36th graduate summer course of Epidemiology and Biostatistics in graduate summer institute of Epidemiology and Biostatistics in Johns Hopkins Bloomberg School of Public Health | 2018
- 11th International Symposium on Pneumococci & Pneumococcal Disease (ISPPD-11) travel grant| 2018
- International Conference on Urban Health travel grant | 2016

### –TRAINING–

- Public Health training at the Johns Hopkins Graduate Summer Institute of Epidemiology and Biostatistics under Johns Hopkins Bloomberg School of Public Health / 2018
- Training workshop on Demographic Analysis, United State Census Bureau/2016
- Training of Trainers, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b) /2015
- Training workshop on Sampling, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b) and U.S. Department of Commerce, Bureau of Census/2015
- Geo-spatial analysis for health, James P. Grant School of Public Health, BRAC University, Bangladesh /2014
- Statistical Package for the Social Sciences (SPSS), University of Dhaka, Bangladesh/2011

### –PUBLICATIONS, NEWSPAPER ARTICLES, PROCEEDINGS AND BLOGS–

#### Journals

1. *Suvadra Datta Gupta, Syed Jafar Raza Rizvi, James Dixo, Nazeem Muhajarine*; The double burden of food and housing insecurity in Saskatchewan, Canada, understood in the context of a pandemic. [Canadian Journal of Public Health 2025.](#)
2. Tanvir Ahmed, **Syed Jafar Raza Rizvi**, Sabrina Rasheed, Mohammad Iqbal, Abbas Bhuiya, Hilary Standing, Gerald Bloom, Linda Waldman; Digital Health and Inequalities in Access to Health Services in Bangladesh: Mixed Methods Study. [JMIR MHEALTH AND UHEALTH 2020.](#)
3. Seul Kee Byeon, Rasheda Khanam, Sayedur Rahman, Tarik Hasan, **Syed Jafar Raza Rizvi**, Anil K. Madugundu, Madan Gopal Ramarajan, Jae Hun Jung, Nabidul H. Chowdhury, Salahuddin Ahmed, Rubhana Raqib, Kwang Pyo Kim, Amy L. Piazza, Piero Rinaldo, Akhilesh Pandey, Abdullah H. Baqui and AMANHI Bio-banking Study Group: Maternal serum lipidomics identifies lysophosphatidic acid as a predictor of small for gestational age neonates. [Journal of Molecular Omics 2021.](#)
4. Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Md. Khairul Islam, Md. Mohiuddin Sharif, Md. Robed Amin, Tasnim Nafisa, Asish Kumar Ghosh, Monira Parveen, Md. Masum Hossain Arif, Junaid Abdullah Jamiul Alam, **Syed Jafar Raza Rizvi**, K.M. Saif-Ur-Rahman, Arifa Akram, A.K.M. Shamsuzzaman: Antibiotic Prescribing Patterns at COVID-19 Dedicated Wards in Bangladesh: Findings from a Single Center Study. [Infection Prevention in Practice 2021.](#)

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5. Abdullah H. Baqui, Eric D. McCollum, Arif Mahmud, Arunangshu Roy, Nabidul H. Chowdhury, Iftekhar Rafiqullah, **Syed Jafar Raza Rizvi**, Nazma Begum, Dipak K. Mitra, Rasheda Khanam, Meagan Harrison, Salahuddin Ahmed, Md Hasanuzzaman, Hafizur Rahman, Maksuda Islam, Zabed B. Ahmed, Md Abdul Quaiyum, Alain Koffi ID, Nicole Simmons, William Checkley, Lawrence H. Moulton, Mathuram Santosham, Samir K. Saha, for the Projahnmo Study Group in Bangladesh; Population-based incidence and serotype distribution of invasive pneumococcal disease prior to introduction of conjugate pneumococcal vaccine in Bangladesh. [PLOS ONE 2020](#).
6. Rasheda Khanam, Salahuddin Ahmed, Sayedur Rahman, Gulam Muhammed Al Kibria, **Jafar Raza Rizvi Syed**, Ahad Mahmud Khan, Syed Mamun Ibne Moin, Malathi Ram, Dustin G Gibson, George Pariyo, Abdullah H. Baqui, for the Projahnmo Study Group in Bangladesh; Prevalence and factors associated with hypertension among adults in rural Sylhet district of Bangladesh: a cross-sectional study. [BMJ Open Global Health Original Research 2019](#).
7. Eric D McCollum, Salahuddin Ahmed, Nabidul H Chowdhury, **Syed J R Rizvi**, Ahad M Khan, Arun D Roy, Abu AM Hanif, Farhan Pervaiz, ASM Nawshad U Ahmed, Ehteshamul H Farrukee, Mahmuda Monowara, Mohammad M Hossain, Fatema Doza, Bidoura Tanim, Farzana Alam, Nicole Simmons, Megan E Reller, Meagan Harrison, Holly B Schuh, Abdul Quaiyum, Samir K Saha, Nazma Begum, Mathuram Santosham, Lawrence H Moulton, William Checkley, and Abdullah H Baqui, Chest radiograph reading panel performance in a Bangladesh pneumococcal vaccine effectiveness study. [BMJ Open Respiratory Research 2019](#).
8. Rocco Panciera; Akib Khan; **Syed Jafar Raza Rizvi**; Shakil Ahmed; Tanvir Ahmed; Rubana Islam and Alayne M Adams: The Influence of Travel Time on Emergency Obstetric Care Seeking Behavior in the Urban Poor of Bangladesh: A GIS Study. [BMC Pregnancy Childbirth 2016](#).

### Conferences

1. Syed Jafar Raza Rizvi, Nazeem Muhajarine; Changes in trust in health professionals during COVID-19 pandemic: National data from CoVaRR-Net's Trust Dynamic and Public Health and Equity project. Canadian Society for Epidemiology and Biostatistics conference-2025.
2. **Syed Jafar Raza Rizvi**; Yasmin Siddiqua: Gender Inequality in receiving health information through mass media in Sylhet and Chattogram Division of Bangladesh.
3. **Syed Jafar Raza Rizvi**; Nazma Begum; Salahuddin Ahmed; Arun Dutta Roy; Nabidul Haque Chowdhury; Ahad Mahmud Khan; Lawrence H. Moulton; William Checkley; Abdullah H Baqui; Eric D. McCollum: Evaluation of a reading panel's performance using world health organization chest radiograph interpretation methodology among child pneumonia cases in a pneumococcal conjugate vaccine effectiveness study from sylhet, Bangladesh, 11th international Symposium on Pneumococci and Pneumococcal Diseases (ISPPD).

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4. Ahad Mahmud Khan; Salahuddin Ahmed; **Syed Jafar Raza Rizvi**; Nazma Begum; Arun Dutta Roy; Abu Abdullah Mohammad Hanif; Nabidul Haque Chowdhury; Lawrence H. Moulton; William Checkley; Abdullah H Baqui; Eric D. McCollum: Pulse Oximetry as a Community-level Child Pneumonia Diagnostic Tool: Establishing Population Reference Values at Sea Level amongst Healthy Rural Bangladeshi Children 3-35 Months Old, 11th international Symposium on Pneumococci and Pneumococcal Diseases (ISPPD).
5. Tanvir Ahmed; **Syed Jafar Raza Rizvi**; Sabrina Rasheed; Abbas Bhuiya; Susmita Das; Linda Waldman: How does access and use of electronic devices for health information seeking in Bangladesh look through the equity lens?, Gerry Bloom 4th Global Symposium on Health Systems Research, 2016.
6. Rubana Islam; **Syed Jafar Raza Rizvi**; Sifat S Yusuf; Alayne M Adams: Inequities in healthcare seeking behaviour among the urban poor population, Bangladesh, Gerry Bloom 4th Global Symposium on Health Systems Research, 2016.
7. **Syed Jafar Raza Rizvi**; Sabrina Rasheed; Nigel Scott; Simon Batchelor; Gerry Bloom: Access and Use of ICTs about Health Information among poor community in Bangladesh. 9th European Congress on Tropical Medicine and International Health to be held in Basel, Switzerland, 6 – 10 September 2015.
8. **Syed Jafar Raza Rizvi**; Rubana Islam; Bridhan Krishna Sarker; Alayne M. Adams: And what about men? Care seeking behaviour among the urban poor in Bangladesh, International Conference on Urban Health 2015, 24-27 May 2015, Dhaka, Bangladesh.