# MD MEHRAN ALAM

mehran.alam596@gmail.com • 970-980-8442
Fort Collins, CO 80521

www.linkedin.com/in/md-mehran-alam
https://sites.google.com/view/m-m-alam

---

## EDUCATION

**8/2024-Present** **Colorado State University (CSU)**, Fort Collins, CO
M.S. Agricultural & Resource Economics (Env. & Res. Econ.), Expected 2026; GPA: 3.77/4.00
*Skills:* Quantitative Data Analysis (R, Stata & Python), Cost-benefit Analysis, LaTeX, Research Design, Causal Inference (IV, Diff-in-Diff, RDD), Machine Learning

**2/2023-6/2024** **North South University**, Dhaka, Bangladesh
M.S. Economics;                                                                    GPA: 3.35/4.00
*Skills:* Data Analysis (Stata), Experiment Design, Spatial Econometrics

**3/2022-3/2023** **University of Dhaka**, Dhaka, Bangladesh
Master of Disaster Management (MDM);                              GPA: 3.41/4.00
Degree Received: Jan 2025

**1/2017-2/2022** **University of Dhaka**, Dhaka, Bangladesh
Bachelor of Disaster Management (BDM, Honour's);              GPA: 3.61/4.00
*Honors:* Government Honour's Scholarship
*Skills:* Qualitative & Quantitative Data Analysis (SPSS, Stata), Geospatial Data Analysis (ArcGIS), Remote Sensing, Survey Design/Analysis, Program Evaluation

**3/2014-7/2016** **Edexcel UK**
International Advanced Level (Pure Mathematics (A), Physics (B), Chemistry (B))

## EXPERIENCE

**6/2025-Present** **Research Assistant**
Colorado State University, Fort Collins, CO
- Characterizing Wild Pig Vehicle Collisions in the State of Georgia using Geospatial and Econometric Analysis – With Dr. Jordan Suter & Dr. Sophie Mckee

**8/2024-6/2025** **Graduate Teaching Assistant**
Colorado State University, Fort Collins, CO
- Working as a GTA for the Department of Agricultural & Resource Economics
- TA: AREC 340 (Economics of Natural Resources); Fall 2024
- TA: AREC 341 (Environmental Economics); Spring 2025
- TA: AREC 346 (Economics of Outdoor Recreation); Spring 2025

**11/2021-2/2022** **Research Intern**
Ministry of Disaster Management & Relief, Government of Bangladesh, Dhaka, Bangladesh
- Evaluation of Government Social Safety Net Programs, Impact Analysis of DRR Policy Interventions, Geospatial Risk Analysis & Modelling (Inundation)
- Conducting FGD, KII and IDI
- Qualitative and Quantitative Survey Data Analysis

1/2019-12/2019 **Research Assistant**

Institute of Disaster Management & Vulnerability Studies, University of Dhaka, Dhaka, Bangladesh
- Evaluation of economic impact of drought in selected drought-prone areas in Muktagacha, Mymensingh, Bangladesh
- Conducting Survey Design
- Designing Policy Interventions for Drought Resilience

## LEADERSHIP & ACTIVITIES

1/2018-1/2019 **Executive Member**

Dhaka University Science Society, University of Dhaka, Dhaka, Bangladesh
- Oversaw executive functions of the-then newly formed organization
- Worked on the first publication of DUSS

3/2017-1/2018 **Executive Member**

Dhaka University Debating Society, University of Dhaka, Dhaka, Bangladesh
- Participated and worked on organizing debating events

## AWARDS
- Government Honours Scholarship (Exam Batch of 2020), University of Dhaka, 2022

## SKILLS

**Technical:** MS Office, Stata, R Studio, IBM SPSS, ESRI ArcMap, ESRI ArcScene, Tableau, MySQL (Basic), LaTeX, Python (Pandas, Numpy, Scikit, Matplotlib, Statsmodels)
**Language:** English, Bengali, German (Basic)
**Interests:** Novel Statistical and Econometric Tools – Spatial Statistics/Econometrics, Experiment Design, Causal Inference

## RESEARCH INTERESTS
**Environmental & Natural Resource Economics:** The economics of droughts and floods; Water Resource Economics; Using NDVI and open-ET data to trace groundwater usage in irrigated agriculture during droughts; The economic impacts of nitrate leaching due to chemical fertilizer use in the US; The environmental and economic impacts of HABs (esp. on aquaculture and human health); Game-theoretic modelling of response to interstate water treaties; Non-market valuation methods for water quality improvement interventions; Pollution & externalities in general; Biological Invasions
**Development/Health Economics:** Gender-based behavioral aspects and heterogeneity in transmission of infectious diseases like malaria; The impact of hydrometeorological variables on deterioration of mental health indicators; The impact of groundwater pollution on health (esp. fertility); Economic Epidemiology Models

## NOTABLE COURSEWORK

**Undergraduate (University of Dhaka)**
Geography & Environment, Economics, Introduction to Statistics, Informatics for Disaster Management, Early Warning & Forecasting, Geographic Information Systems, Disaster Insurance, Research Methods, Climate Change, Disaster, Health & Emergency Management (Public Health in Disasters)

**Graduate (North South University)**
Microeconomic Analysis, Microeconomic Theory, Game Theory, Macroeconomic Analysis, Macroeconomic Theory, Quantitative Techniques for Economic Analysis, Mathematical Economics, Econometric Methods, Calculus & Analytic Geometry I, Development Economics, International Finance, Advanced Research Methods

**Graduate (Colorado State University)**
*PhD Microeconomic Theory Sequence:* Applied Microeconomic Theory (506), Microeconomic Analysis I (606), Microeconomic Analysis II (706, Ongoing)
*PhD Econometrics Sequence:* Applied Econometrics (535), Econometric Theory I (635, Ongoing), Econometric Theory II (735, Scheduled Spring '26), Advanced Econometric Methods: Machine Learning (736E, Ongoing)
*Math:* Quantitative Methods for Economists, Optimization Methods for Applied Economics (Ongoing), Linear Algebra (Scheduled Spring '26), Advanced Calculus (Real Analysis; Scheduled Spring '26)
*Other:* Applied Welfare and Policy Analysis, Environmental and Natural Resource Economics

## WORKING PAPERS

- Characterizing Wild Pig Vehicle Collisions in the State of Georgia – With Dr. Jordan Suter and Dr. Sophie Mckee
- Thesis: The Impact of Droughts, Floods and Storm Events on Farm Income and Crop Yields in the US Midwest.