

# Md Tahmeed Hossain

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## EDUCATION

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<b>Ph.D. in Economics</b> , Southern Methodist University (GPA: 3.67/4.0)	2021 - Present
<b>M.S. in Applied Economics</b> , Montana State University (GPA: 3.83/4.0)	2019 - 2021
<b>B.S.S. in Economics</b> , University of Dhaka (GPA: 3.71/4.0)	2011 - 2014

## RESEARCH

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**Research Interests:** Public Policy, Political Economy, Causal Inference

**Working Papers:**

*Sporting Events and Road Accidents: A Case Study from NFL Games*

- Designed a quasi-experimental study using fixed-effects Poisson regression to estimate the causal impact of NFL games on traffic incidents.

*The Effect of School Safety Tip Lines on Youth Suicide Prevention*

- Applied difference-in-differences and synthetic control frameworks to evaluate the impact of school safety tip lines on youth suicides, providing empirical evidence for policy interventions.

**Work in Progress:**

*Historical Religious Conflicts and Contemporary Socio-Economic Outcomes in India*

- Developed a novel instrumental variables (IV) approach using least-cost paths (LCPs) of medieval military campaigns to estimate the causal effect of historical religious conflicts and temple destruction on contemporary communal violence.

## TEACHING EXPERIENCE

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**Southern Methodist University**

*Instructor:* Intermediate Microeconomics

*Teaching Assistant:* Econometrics I (Ph.D.), Microeconomic Theory (Ph.D.), Price Theory, Economic Development: Macro, Political Economy, Introductory Econometrics, International Trade, Trade Policy & World Trading

**Montana State University**

*Teaching Assistant:* Economic Development, Agribusiness Management, Economics of Crime & Risky Behavior

## OTHER PROFESSIONAL EXPERIENCE

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**Southern Methodist University**

Jan 2023 - Aug 2023

*Research Assistant (Department of Justice Grant)*

- Cleaned, constructed, and analyzed restricted-access large-scale human trafficking datasets using advanced statistical techniques in SQL, Stata and Python.
- Identified critical demographic and systemic risk factors associated with sex trafficking and presented findings at International Atlantic Economic Conference.

**Montana State University**

Aug 2019 - May 2021

*Research Assistant*

- Applied NLP techniques (TF-IDF, sentiment analysis, topic modeling) to analyze historical government policy records, extracting key legislative trends and policy impact insights.

- Constructed and standardized a historical farmland tax dataset (1956–1985) to support quasi-experimental analysis of Use-Value Assessment (UVA) policies, contributing to a peer-reviewed publication in *Regional Science and Urban Economics*.

#### **Palli Karma-Sahayak Foundation (PKSF), Bangladesh**

Apr 2017 - Jul 2019

##### *Assistant Manager*

- Designed and led large-scale randomized controlled trials (RCTs) across 20+ villages to evaluate the impact of different credit products on poverty reduction and financial inclusion.
- Built an early warning system using Python (scikit-learn, XGBoost) and SQL to predict at-risk borrowers based on historical repayment behavior, reducing default rates by 15% through risk scoring and intervention modeling.
- Developed credit risk monitoring dashboards to optimize fund allocation and improve microfinance partner performance tracking, enabling proactive decision-making.

#### **PRESENTATIONS**

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| • SMU Brown Bag Seminar                      | 2025       |
| • SMU Microeconomics Seminar                 | 2023, 2024 |
| • International Atlantic Economic Conference | 2023       |

#### **AWARDS**

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| • Provost's Doctoral Candidacy Fellowship, Southern Methodist University           | 2023 - Present |
| • Full Tuition Scholarship & Graduate Assistantship, Southern Methodist University | 2021 - 2023    |
| • IRAEA Research Grant, Montana State University                                   | 2021           |
| • Full Tuition Scholarship & Graduate Assistantship, Montana State University      | 2019 - 2021    |

#### **SKILLS**

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- **Programming & Tools:** Python, SQL, Stata, Git, Tableau, Power BI, QGIS
- **Cloud Data Engineering:** AWS (Certified Cloud Practitioner), Databricks
- **Machine Learning:** Regression, Classification, Time series, Deep Learning Neural Networks (TensorFlow, Keras, PyTorch)
- **Language:** English, Bengali, Hindi