

Md Tahmeed Hossain

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EDUCATION

Ph.D. in Economics | Southern Methodist University, Dallas, TX | Aug 2021 - Present (Expected May 2026)

M.S. in Applied Economics | Montana State University, Bozeman, MT | Aug 2019 - May 2021

B.S.S. in Economics | University of Dhaka, Bangladesh | Jan 2011 - Dec 2014

TECHNICAL SKILLS

- Python, R, SQL, Stata, QGIS, ARCGIS,
- Tableau, Power BI, AWS, Databricks, Spark, Git
- Causal inference, econometrics, experimental design (RCTs, A/B testing), quasi-experimental methods, spatial analysis
- Applied Machine Learning (XGBoost, random forests, neural networks), causal ML (double ML, causal forests, meta-learners), prompt engineering, fine-tuning, RAG systems

PAPERS

Historical Religious Conflicts and Contemporary Socio-Economic Outcomes in India (Job Market Paper) ([Latest Version](#))

- Used proximity to least-cost paths of medieval military campaigns as instrumental variables to identify causal effects of historical institutional destruction, finding 160% increases in contemporary communal violence through persistent social fragmentation evidenced by higher employment and housing segregation and spatial separation of religious infrastructure

Do Large Sporting Events Increase Traffic Accidents? Quasi-Experimental Evidence from the NFL ([Latest Version](#))

- Applied quasi-experimental methods to quantify economic externalities of major sporting events, finding 15.6% increase in traffic accidents within 0-5 miles of NFL stadiums on game days, providing evidence for policy evaluation of large-scale public events

Legal Barriers to Credit: Evidence from Manufactured Housing and Leasehold Land Policies (with *Nathaniel Pattison*) (Work in Progress)

- Used spatial regression discontinuity design to evaluate how state property classification laws affect credit access for manufactured housing buyers

PROFESSIONAL EXPERIENCE

Research Intern | Human Trafficking Data Research Project, Southern Methodist University | Jan 2023 - Aug 2023

- Analyzed 24M+ restricted-access foster care and child welfare records from NCANDS and AFCARS to identify risk factors associated with child trafficking outcomes, using Python and causal inference methods to uncover spatial and demographic disparities
- Consulted with policymakers and Texas state government officials to translate research findings into actionable policy recommendations for resource allocation and intervention strategies
- Presented research on child welfare data gaps and spatial risk modeling at the International Atlantic Economic Conference (2023), emphasizing the role of administrative data in identifying trafficking vulnerabilities.

Research Assistant | Montana State University | Aug 2019 - May 2021

- Constructed nationwide panel of farmland sales and tax data using CoreLogic parcel-level transactions, USDA Census of Agriculture, and county tax records; acknowledged in two peer-reviewed economics papers (AJAE, AJAEc) for research assistance and dataset compilation

- Integrated geospatial, climate (PRISM), and soil data (gNATSGO) into parcel- and county-level panels using Python and ArcGIS, supporting analysis of nonclassical measurement error and Ricardian hedonic models.

Assistant Manager | Palli Karma-Sahayak Foundation (PKSF), Bangladesh | Apr 2017 - Jul 2019

- Designed and implemented **randomized controlled trials (RCTs)** across 20+ regions to evaluate the impact of microfinance and livelihood programs, informing national resource allocation decisions affecting 100,000+ households.
- Used advanced SQL to generate automated program oversight reports for donor and regulatory review, including compliance checks, disbursement audits, and portfolio risk tracking across 200+ microfinance partners.
- Provided strategic consulting and oversight to 10 microfinance NGO partners through comprehensive loan portfolio analysis using multi-partner datasets; delivered actionable recommendations on operational improvements and risk management that improved loan repayment rates by 15% across the partner network.

TEACHING EXPERIENCE

Instructor | Southern Methodist University | Jun 2025 – Jul 2025

- Course: Intermediate Microeconomics (Undergraduate)

Teaching Assistant | Southern Methodist University | Aug 2021 - Present

- Courses: Economic Development, Econometrics, Price Theory, Political Economy, Microeconomic Theory (PhD), Econometrics (PhD)

CONFERENCE PRESENTATIONS

- International Atlantic Economic Conference (2023)
- Stata Texas Empirical Microeconomics Conference (2024)
- Southern Economic Association (SEA) Annual Meeting (Upcoming Nov 2025)

AWARDS

- Full Tuition Scholarship and Provost's Doctoral Fellowship | Southern Methodist University | 2021-present
- Full Tuition Scholarship and IRAEA Thesis Grant | Montana State University | 2019-2021

Certifications

- AWS Certified Cloud Practitioner
- Tableau Desktop Foundation