MD ROKNUZZAMAN

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Gainesville, Florida, USA

EDUCATION

University of Florida, Gainesville, FL, USA — *Fall 2022 – Summer 2026*
Ph.D. in Food and Resource Economics (Supervisor: Conner Mullally)
Department of Food & Resource Economics

University of Toledo, Toledo, OH, USA — *Spring 2021 – Spring 2022*
M.A. in Economics; Certificate in Data Analytics in Economics

University of Dhaka, Dhaka, Bangladesh — *2012 – 2016*
B.S.S. in Economics

RESEARCH FIELDS

Agribusiness, Agricultural and Food Policy, Sustainable Food Systems, AI/ML Applications in Agriculture, Causal Inference and Impact Evaluation.

JOB MARKET PAPER

The Impact of Dollar Store Restrictions on Food-at-Home Retail [Full Manuscript]

Abstract: Local land-use regulation has emerged as a tool through which municipalities seek to shape neighborhood economic activity, public health, and access to food. Dollar stores have expanded dramati-cally across the United States over the past two decades, more than doubling their locations since 2011 to nearly 40,000 outlets, while offering limited fresh food relative to traditional grocery for-mats. Communities concerned about retail displacement and poor food quality have responded with zoning restrictions, and nearly 62 U.S. cities have adopted such policies, yet whether these measures actually reshape the local food retail environment remains unknown. Here we show, using city-year panel data from 2012–2023 and a generalized synthetic control method, that local dollar store re-striction policies meaningfully alter the composition of food-at-home retail markets. Adopting at least one restriction policy reduces dollar store counts by approximately 35 percent relative to the sample mean while reducing superstores by roughly 42 percent; special-exception policies drive re-ductions in dollar stores of about 56 percent and increases in small grocery stores. These policies also reduce superstores in national and urban sample while increasing medium grocery stores in urban-cluster areas. Moratoriums reduce small grocery stores in urban-cluster areas by roughly 21 percent and reduce superstores in urban areas, revealing that local market density mediates policy effective-ness. These findings demonstrate that supply-side land-use regulations can serve as a meaningful lev-er for reshaping neighborhood food retail. The results offer timely guidance for the growing number of municipalities debating or revising dollar store zoning ordinances as tools to preserve retail diver-sity and improve food access.

PAPERS UNDER REVIEW

1. Roknuzzaman, M., & Mullally, C. (2026). The Impact of Dollar Store Restrictions on Food-at-Home Retail. Food Policy. [Google Scholar Link]
2. Uddin, M. A., & Roknuzzaman, M. (2025). Machine Learning Insights on Farm Exits: Enhancing Resilience in Wisconsin's Dairy Industry. Journal of Dairy Science. [Google Scholar Link]
3. Shimul, S. N., Uddin, M. A., & Roknuzzaman, M. (2026). Does Husbands' Migration Affect Wives' Mental Health: Evidence from Bangladesh. World Development. [Google Scholar Link]
4. Roknuzzaman, M, Uddin, M. A., & Shimul, S. N. (2026). The Mental Health Consequences of Child Marriage: Evidence from Bangladesh. World Development. [Google Scholar Link]

PEER-REVIEWED PUBLICATIONS

1. Al Amin, M., & Roknuzzaman, M. The Impact of Energy Efficiency and Conservation Master Plan on Primary Energy Consumption in Bangladesh: A Synthetic Control Analysis. Energy Nexus. [Google Scholar Link]
2. Obyda, A., Uddin, M. S., Sohel, I. M., & Roknuzzaman, M. (2026). Exploring the impact of financial development and technological innovation on green growth in BRICS. Discover Sustainability. [Google Scholar Link]
3. Salah Uddin, M., Hamid, A. A., Hosain, M. S., Mamun, S. U., Roknuzzaman, M., Ahmed, Z., & Faruque, O. (2025). Trade Policies and the Shadow Economy: The Nexus of Tariffs, Non-Tariff Barriers and Trade Freedom in N-11 Countries. East Asian Economic Review, 29(3), 271-302.). [Google Scholar Link]
4. Salah Uddin, M., Al Masud, M. I., Roknuzzaman, M., Ahsan Habib, M., & Amin, M. A. (2026). Does the Informal Economy Undermine Political Stability? Empirical Evidence from Global Perspectives.Economics of Governance. [Google Scholar Link]
5. Salah Uddin, M., Obyda, A., Roknuzzaman, M., & Al Amin, M. (2026). From resource dependency to sustainability: The role of green energy, environmental policy, and innovation on green growth in BRICS. Energy for Sustainable Development. [Google Scholar Link]

WORKING PAPERS

1. The Hidden Price of Convenience: Dollar Stores and Crime in the United States (with Conner Mullally). — *Presented at the AAEA Conference 2025.* [Full Manuscript] [Google Scholar Link]
2. The Impact of COVID-19 on the Food Environment in the United States (with Conner Mullally). — *Scheduled for the SAEA Conference 2026.* [Full Manuscript]
3. The Effect of COVID-19 on the Demand for Frozen Foods: Demand Estimation and Forecasted Average Treatment Effects (FAT) (with Suraj Gurung). [Full Manuscript]

RESEARCH EXPERIENCE

Graduate Research Assistant | University of Florida, Gainesville, USA *Aug 2022 – Aug 2026*

- Completed a three-chapter dissertation building a national ZIP-code-level panel (2012–2023) from administrative, geocoded, and zoning data to estimate the causal effects of retail policy and firm entry on food access, market competition, and community outcomes, using generalized synthetic control and difference-in-differences methods.
- Designed a spatial ”ring-based” difference-in-differences strategy, paired with a novel web-scraped dataset, to identify the causal effect of dollar-store entry on local crime.
- Cleaned, merged, and harmonized NielsenIQ consumer scanner data (millions of household- and store-level purchase records) to estimate demand and forecast treatment effects for the COVID-19 frozen-food demand study.
- Applied machine-learning classification models to predict dairy-farm exits in Wisconsin, and helped collect primary survey data directly from farm operators.
- Assembled and cleaned millions of geocoded observations and built reproducible workflows in R, Python, and ArcGIS on high-performance computing systems.

CONFERENCES & SEMINAR PRESENTATIONS

- AAEA & WAEA Joint Annual Meeting (2025, 2026)
- SAEA Annual Meeting (2023, 2025, 2026)

SKILLS

- **Programming Languages:** R, Python, SAS, Stata
- **Geospatial Tools:** GeoDa, ArcGIS
- **Systems & HPC:** Linux, Bash/Shell scripting, Parallel Computing on Supercomputers
- **Survey:** Qualtrics, Survey Design

- **Languages:** English (fluent), Bengali (native)

TEACHING INTERESTS

Agribusiness Management, Managerial Economics, Agricultural Economics, Agricultural Finance, Microeconomics, Macroeconomics, Mathematical Economics, Statistics, Machine Learning and Econometrics, Data Science for Economics, Circular Food Economics, Agricultural Price Analysis, Development Economics.

TEACHING EXPERIENCE

Instructor of Record (Lecturer) – University of Florida *Fall 2026 – Present*

- AEB 5188 – Economics for Agribusiness Decisions *Graduate; Master of Agribusiness*
- Serving as sole instructor, independently designing and developing the entire course, including syllabus, lectures, assignments, and assessments.

Adjunct Assistant Professor – Santa Fe College, Florida *Fall 2026 – Present*

- Teach in person ECO-2023 Principles of Microeconomics, and ECO-2013 Principles of Macroeconomics, giving me active, independent undergraduate principles-teaching experience.

Co-Instructor- University of Florida *Summer B 2026*

- **AEB 2294 – Valuing Circular Food Economies** *In Person; 20 students*
- Collaboratively developed and delivered lectures, assignments, quizzes, active-learning activities, and an experiential class project with Dr. Jennifer Clark.

Guest Lectures | University of Florida

- **AEB 3144 – Introduction to Agricultural Finance**
  Topic: Capital Asset Pricing Model: Understanding Risk, Return, and Market Equilibrium
  Student Evaluation: 4.5/5.0 *Enrollment:* 13 *Date:* November 13, 2025
- **AEB 2372 – Economics of Eating**
  Topic: The Cost of Convenience Stores: How Food Policies and Consumer Choices Shape Retail Markets
  Student Evaluation: 4.4/5.0 *Enrollment:* 54 *Date:* November 7, 2025

Instructor

Univ Virtual Educational Platform (Medium of Instruction : English)

Course	Mode	Size	Term
Microeconomic Theory	Online	37	Summer 2023
Macroeconomic Theory	Online	31	Summer 2024
Introduction to Econometrics	Online	33	Summer 2025

Focus University Admission Coaching, Bangladesh *2011–2020*

- Taught for nearly a decade at a large university-admission preparation network serving more than 40,000 students annually across 40+ branches.
- Received the institution's **Best Instructor Award** for six consecutive years, 2015–2020, based on student evaluations.

Teaching Assistant *Spring 2021 – Summer 2026*

- University of Florida (UF), University of Toledo (UT)

Course	Mode	Institution	Size	Term
AEB 4342 – Agribusiness & Marketing Management	In Person	UF	41	Spring 2023
AEB 3510 – Quantitative Methods	In Person	UF	29	Fall 2022
AEB 4283 – International Development Policy	In Person	UF	52	Fall 2023
AEB 4283 – International Development Policy	In Person	UF	78	Spring 2024
ECON 1150 – Principles of Macroeconomics	Hybrid	UT	47	Spring 2021
ECON 1200 – Principles of Microeconomics	Hybrid	UT	51	Fall 2021
ECON 2810 – Introduction to Econometrics	Hybrid	UT	56	Spring 2022

MENTORING

- Mentored **10+ students** in research development, academic career planning, and graduate-school applications.
- *Selected mentees:* Md Imamul Hossain (University of Florida); Md Al Amin (University of Georgia); Forhad Hossain (University of Arizona).

PROFESSIONAL DEVELOPMENT IN TEACHING AND MENTORING

- **Preparing Future Faculty Program**, Center for Teaching Excellence, University of Florida, Fall 2025. Training in inclusive syllabus design, evidence-based pedagogy, active learning, and student mentoring.
- **CALS Inclusive Mentoring Academy for Graduate Education (IMAGE)**, University of Florida, Summer 2026. Training in inclusive mentoring, expectation-setting, effective communication, professional development, independence, and ethical mentoring relationships.

PROFESSIONAL SERVICE

- **Scientific Editor**: Review of Economics, Finance & Business (REFB), 2026–present
- **Peer reviewer**: Environment and Development Economics, Journal of Urban Health.

PROFESSIONAL AFFILIATION

- Agricultural & Applied Economics Association (AAEA) ; Southern Agricultural Economics Association (SAEA) ; Southern Economics Association (SEA)

AWARDS

- Grinter Fellowship, University of Florida (Fall 2022, Spring 2023)
- Werner and Margaret C. Husman Scholarship, University of Florida (2026–2027)
- ADB–Japan Scholarship, Thammasat University, Thailand (2020)

COURSES & TRAINING

- **esri:** Building Models for GIS Analysis Using ArcGIS; Distance Analysis Using ArcGIS ; Getting Started with Spatial Analysis; Preparing for Network Analysis & Image Processing with ArcGIS

REFERENCES

Conner Mullally (Committee Chair)
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