

Naveen Abedin

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EDUCATION

Ph.D. Economics Virginia Tech	Aug 2021 - June 2025 (Expected)
M.S. Economics University of Texas at Dallas	Aug 2013 - May 2014
B.S. Economics University of Texas at Dallas	Aug 2010 - May 2013

RESEARCH INTERESTS

Health, nutrition, food security climate change, agricultural production

PUBLICATIONS

Ahmed, A. U., Hoddinott, J., **Abedin, N.**, & Hossain, N. (2021). The impacts of GM foods: results from a randomized controlled trial of Bt eggplant in Bangladesh. *American Journal of Agricultural Economics*, 103(4), 1186-1206.

Fakir, A. M., & **Abedin, N.** (2021). Empowered by absence: does male out-migration empower female household heads left behind?. *Journal of International Migration and Integration*, 22(2), 503-527.

Theis, S., Krupnik, T. J., Sultana, N., Rahman, S. U., Seymour, G., & **Abedin, N.** (2019). *Gender and agricultural mechanization: a mixed-methods exploration of the impacts of multi-crop reaper-harvester service provision in Bangladesh*. IFPRI Discussion Paper 1837. Washington, DC: International Food Policy Research Institute (IFPRI).

WORK-IN-PROGRESS

How does the KSS Program Impact the SSB Intake of Students: An Investigation beyond Total Treatment Effect in RCT (Job Market Paper)

- Employs structural equation modeling (SEM) to unpack the causal pathways through which a school-based intervention program, Kids SIPsmarter (KSS) affects sugar-sweetened beverage (SSB) intake among 7th-grade students.

- Selected for presentation at the American Society for Health Economists (AshEcon) 2024 Annual Conference at San Diego, CA; Also selected for presentation at the Food & Nutrition - Health Economics (FSN-HES) joint session at Agricultural and Applied Economics Association (AAEA) Annual Meeting 2024, New Orleans, LA.

Access to water estates and food security outcome (revise & resubmit)

- Examines whether a policy of rights-based access to public water resources improves the macronutrient and micronutrient intake of rural households in Bangladesh

- Selected for poster presentation at the Agricultural and Applied Economics Association (AAEA) Annual Meeting 2019, Atlanta, GA. Jul 2019.

Demand for Online Grocery Shopping in the U.S.

- Online grocery shopping has experienced rapid growth in the U.S. with important implications for food access and purchasing decisions. Using data from the 2022-23 Eating and Health Module of the American Time Use Survey, this study examines the socioeconomic factors associated with online grocery shopping. We specify a censored recursive multivariate probit model based on the Lancaster demand framework to simultaneously estimate the demand for online grocery shopping, the main reasons for shopping, and the frequency of online shopping.

Postpartum Physical Fitness in U.S. Air Force: The Impact of Pregnancy and Excessive Gestational Weight Gain on Fitness Outcomes

- USAF personnel are exempt from physical fitness tests during pregnancy and up to 12 months postpartum. However, prior research highlights that military women often face difficulties returning to pre-pregnancy fitness and weight levels during the postpartum follow-up period. We conducted a comprehensive longitudinal analysis of 75,144 active duty USAF women, including 1,158 who gave birth between October 2017 and February 2019 to explore the impact of pregnancy and excessive gestation weight gain on postpartum physical fitness outcomes.

Assessing the Effectiveness of Climate-Smart Rice Varieties in Coastal Bangladesh

- Examines if adopting CS rice varieties mitigates the adverse effects of flooding on rice crop yields in southern Bangladesh.
- Invited to present at the 2024 Salinity Affected Lands in Transition (SALT) Conference, Cambridge, MD. Also selected for poster presentation at the Agricultural and Applied Economics Association (AAEA) Annual Meeting 2023, Washington, D.C. Jul 2023.

Effectiveness of agricultural diversification in promoting food security

- Explores the effect of agricultural diversification of farm households in rural Bangladesh in reducing gaps in calorie, iron, and vitamin A intakes.
- Selected for presentation at the Agricultural and Applied Economics Association (AAEA) Annual Meeting 2021, Austin, TX. Aug 2021.

Socioeconomic disparities in prescription drug usage, healthcare, and mortality among Medicare breast cancer patients under Part D

- This study examines how the gradual closing of the Part D doughnut hole affected breast cancer outcomes among elderly female Medicare beneficiaries across different socioeconomic levels.

TEACHING EXPERIENCE

Virginia Tech

Blacksburg, Virginia

Instructor of Record

Spring 2024

Macroeconomic Principles (AAEC 1006, Undergraduate level)

Teaching Assistant

Spring 2022, Fall 2022, Spring 2023

Fundamentals of Econometrics (AAEC 5804, Master's level)

North South University

Dhaka, Bangladesh

Instructor of Record

Spring 2015 - Summer 2018

Introduction to Microeconomics (ECO 101, Undergraduate level)

Mathematical Economics (ECO 244, Undergraduate level)

Applied Statistics (ECO 173, Undergraduate level)

WORK EXPERIENCE

University of Virginia

MD-PBHS Public Health Sciences Admin

Graduate Research Intern

May 2024 - Aug 2024

- Investigated the effects of Medicare policy changes on healthcare utilization and outcomes among seniors, focusing on the interplay between socioeconomic factors and health disparities.
- Gained familiarity with SEER-Medicare claims data structure, particularly in studying breast cancer outcomes. Currently exploring methodologies to leverage such datasets to analyze how policy reforms impact healthcare access and utilization across diverse elderly populations.

Virginia Tech

Data Science for Public Good (DSPG) Summer Program

Research Associate

May 2023 - Jul 2023

- Coordinated with stakeholders in IFPRI, Bangladesh to conduct a research on the association between prenatal exposure to flood events and child health outcomes in Bangladesh. Formulated research design and carried out all related survey and remote sensing data analysis
- Conducted a two-day training workshop on basic remote sensing tools using Google Earth Engine in the Python environment
- Guided and mentored undergraduate students in the team.

Data Science for Public Good (DSPG) Summer Program

Research Associate

Jun 2022 - Aug 2022

- Coordinated with stakeholders in World Bank, Zimbabwe, and ZIMSTAT to design and conduct research to examine the effects of drought on a multidimensional poverty index in Zimbabwe.
- Guided and mentored undergraduate students in the team.

International Food Policy Research Institute (IFPRI)

Dhaka, Bangladesh

Research Analyst

Sept 2018 - Jul 2021

- Conducted data and econometric analysis on large household-, agricultural plot- and individual-level datasets from primary and secondary sources for USAID- and Bangladesh government-funded research projects.
- Contributed as author on several research papers and publications.

Washington, D.C.

Consultant

Jun 2017 - Oct 2017

- Provided quantitative and writing support as collaborator on a paper relating to women's access to agricultural mechanization in rural Bangladesh

WorldFish

Dhaka, Bangladesh

Research Associate

Sept 2014 - Dec 2014

- Responsible for processing, managing and analyzing datasets from secondary sources.
- Assisted in designing survey questionnaires and writing project reports.

PRESENTATIONS

Assessing the Effectiveness of Climate-Smart Rice Varieties in Coastal Bangladesh

- Invited to present at the **Salinity Affected Lands in Transition (SALT) Conference, Cambridge, MD. June 2024.**
- Selected for poster presentation at the **Agricultural and Applied Economics Association (AAEA) Annual Conference, Washington, D.C. July 2023**
- Selected for lightning presentation at the **Center for Advanced Innovation in Agriculture (CAIA) Lightning Talk, Virginia Tech, Dec 2022.**

How does the KSS Program Impact the SSB Intake of Students: An Investigation beyond Total Treatment Effect in RCT

- Selected for paper presentation at the **Agricultural and Applied Economics Association (AAEA) Annual Conference, New Orleans, LA. July 2024**
- Selected for paper presentation at the **American Society for Health Economists Annual Conference, San Diego, CA June 2024**

SKILLS

Software and Tools: Stata, R, Python, Java in Google Earth Engine

Languages: English (native/bilingual), Bengali (native/bilingual)

SERVICES AND AWARDS

Referee *Food Security; Frontiers in Nutrition: Food Policy and Economics*

Recipient *Kline Graduate Fellowship Award, Spring 2023 and Fall 2023*

Recipient *2nd place, USDA-AMS/AAEA Local Food Economics Data Visualization Challenge, 2023*

Vice President *Graduate Student Association at AAEC, VT, 2023-24*

Member *Agricultural and Applied Economics Association; American Society for Health Economists*

REFERENCES

Dr. George Davis (Committee Chair)

Professor and Interim Department Head

Department of Agricultural and Applied Economics

Virginia Tech

✉ georgedavis@vt.edu

Dr. Wen You

Professor

Department of Public Health Sciences

University of Virginia

✉ wenyou@virginia.edu

Dr. Susan Chen

Associate Professor

Department of Agricultural and Applied Economics

Virginia Tech

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