

# PROKASH DEB

Personal Site — Google Scholar — GitHub

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## EDUCATION

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### Auburn University

PhD Candidate

Applied Economics

Department of Agricultural Economics and Rural Sociology

*Thesis Title:* Three Essays on Applied Economics - Analysis of Market Dynamics and Consumer Behavior in Food Industries

*Advisor:* Dr. Wenying Li

December 2024 (Expected)

### Texas State University

MS in Integrated Agricultural Sciences

Department of Agricultural Sciences

*Thesis Title:* Fish Price Volatility, Price Transmission, and Market Integration in Bangladesh

*Advisor:* Dr. Madan Dey

July 2021

### Sylhet Agricultural University, Bangladesh

B.Sc. in Agricultural Economics

Faculty of Agricultural Economics and Business Studies

May 2017

## RESEARCH INTERESTS

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Consumer Economics, Food and Nutrition Security, Applied Econometrics, Food and Agricultural Markets, Energy Economics, Microeconomics.

## PUBLISHED ARTICLES

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- Deb, Prokash and Wenying Li. "Asymmetric Price Volatility Spillover Between Capture Fisheries and Aquaculture Markets". *Aquaculture Economics & Management*, 28, no. 1 (2024): 56-81.  
<https://doi.org/10.1080/13657305.2023.2236046>
- Deb, Prokash, Noel Perceval Assogba, and Wenying Li. "Price Volatility Modeling for the Lumber Futures Market: A Generalized Autoregressive Conditional Heteroskedasticity-Mixed Data Sampling Approach." *Forest Science* (2023): fxad021.  
<https://doi.org/10.1093/forsci/fxad02>
- Deb, Prokash, Madan M. Dey, and Prasanna Surathkal. "Price Transmission and Market Integration of Bangladesh Fish Markets." *Aquaculture* 560 (2022): 738592.  
<https://doi.org/10.1016/j.aquaculture.2022.738592>
- Deb, Prokash, Madan Mohan Dey, and Prasanna Surathkal. "Fish Price Volatility Dynamics in Bangladesh." *Aquaculture Economics & Management*, 26, no. 4 (2022): 462-482.  
<https://doi.org/10.1080/13657305.2021.2008049>

## MANUSCRIPTS UNDER REVIEW

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- Modeling New Product Adoption: A Double Hurdle Latent Class Growth Model Applied to Plant-Based Meat Alternatives. *Journal of Applied Econometrics* (with Wenying Li, Shuoli Zhao, and Haoluan Wang).
- Energy Price Shocks and the Impact on EU Animal Protein Markets: A Dynamic Spillover Analysis.

*Energy Economics* (with Wenying Li, and Wendiam Sawadgo).

- Global Food Price Volatility Spillover from International to Domestic Markets. *Agricultural Economics* (with Kai Ling, and Wenying Li).
- Fish Price Dynamics in Sri Lanka: A Study of Spatial Market Integration. *Marine Resource Economics* (with Pathmanathan Sivashankar, and Nabin Bhandari).

## MANUSCRIPTS IN PROGRESS

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- Machine Learning-Based Concentration Index Estimation with Categorical Income Data (with Wenying Li, Haoluan Wang, and Xianru Han).
- Dietary inequality in the U.S. (with Siqu Gao, and Wenying Li).
- Trends in Fish Price, Income & Nutrition Elasticities in Bangladesh (with Madan M. Dey, Abhispita Das, Md. Takibur Rahman, Md. Emran Hossain, and Md. Akhtaruzzaman Khan).

## GRANTS

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***The United States Department of Agriculture (USDA):***

- Spatial Price Transmission of Agricultural Products from Global to Domestic Markets: Evidence from a Developing Country. (Contribution: Proposal Writing, Award: 50,000 USD)
- Convergence in Food Demand. Do Middle income Countries Follow High income Trend? (Contribution: Proposal Writing, Award: 50,000 USD)

## PROJECTS IN PROGRESS

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***The United States Department of Agriculture (USDA):***

- Spatial Price Transmission of Agricultural Products from Global to Domestic Markets: Evidence from a Developing Country.

***The Effects of Sea Level Rise Program (ESLR):***

- Surface Transportation Resilience; Surface Transportation, Sea Level Rise, and Coastal Storms: A Sustainable Path to Increased Resilience.

## TEACHING EXPERIENCE

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- Quantitative Methods in Agricultural Economics (Undergraduate Level: AGECE 3200)

***Course Outline (Spring 2024):***

*Module 1:* Probability Theory, Discrete Random Variable Probability, Continuous Random Variable Probability, Marginal and Conditional Distributions, Bayes Law and Total Probability.

*Module 2:* Poisson Distribution, Binomial Distribution, Normal Distribution, Statistical Sampling, Law of Large Numbers.

*Module 3:* Central Limit Theorem, Confidence Interval, Hypothesis Testing for proportion, mean, two means independent samples, Paired sample T-test, Chi-Square Test for variance.

*Module 4:* Variance and Covariance, Bivariate Linear Regression, Multivariate Linear Regression, Excel Implementation of Group Project.

## JOURNAL REVIEWER

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- Aquaculture Journal

## CONFERENCE PRESENTATION

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***Agricultural & Applied Economics Association (AAEA):***

- Price Volatility Spillover from Energy to Animal Protein Markets in EU (Accepted-2024).
- The Determinants of Plant-Based Meat Alternative Purchases in the U.S.: A Double Hurdle Latent

Class Growth Model (2023).

- The Determinants of Plant-Based Meat Consumption in the United States (2022).
- Fish price volatility dynamics in Bangladesh (2021).
- Fish Price Transmission and Market Integration along the Vertical Value Chain in Bangladesh (2021).

## WORK EXPERIENCE

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### Graduate Research Assistant

Auburn University, Auburn, AL

*August 2021-Present*

### Graduate Instructional Assistant

Texas State University, San Marcos, TX

*Summer 2021*

### Graduate Research Assistant

Texas State University, San Marcos, TX

*January 2019 - May 2021*

## SURVEY EXPERIENCE

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- Agricultural Practice & Livelihood Pattern of Trivial Communities in Bangladesh, 2017
- Livelihood Status & Socioeconomic Condition of Dairy Farmers in Bangladesh, 2017

## UNIVERSITY & COMMUNITY SERVICES

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- Graduate House Representative of Student Government of Texas State University
- Member of Graduate Council of Texas State University
- Cultural and Sports Officer of Bangladesh Student Association of Texas State University

## AWARDS & HONORS

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- AAEA Travel Grant *2023*
- AAEA Trust fund *2023*
- Male Network Scholar, Texas State University *2020*
- Student Government Scholarship, Texas State University *2020*
- Bobcats to Bobcats Scholarship, Texas State University *2020*

## TRAINING & CERTIFICATION

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- Advanced Econometrics (STATA software)
- CITI Program (Human Research – Social and Behavioral Research Student)
- Three Day Startup Deep-Dive Program at Texas State University

## SKILLS

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**Computer:** R, SAS, STATA, PYTHON, LaTeX, JMP

**Languages:** Bengali (native), English (proficient)