RWIT CHAKRAVORTY

Fargo, ND
515-203-9750 rwit.chakravorty@ndsu.edu www.linkedin.com/in/rwitchakravortyecon

RESEARCH INTERESTS

Agricultural Production, Risk Management, Market Disruptions

EDUCATION

Ph.D., Economics, Iowa State University, Ames, IA, August 2025

M.A., Economics, Jadavpur University, Kolkata, India, May 2019

B.Sc., Economics, University of Calcutta, Kolkata, India, May 2017

PUBLISHED POLICY WORK

Prevented Planting Buy-Up Elimination and What the Evidence Indicates about Adoption, Actuarial Performance, and Pre-Planting Risk Management Options for Farmers (2026), *with Francis Tsiboe, Dylan Turner, Shawn Arita, and Hongxi Zhao*

Ending Prevented Planting Buy-Ups Changes Insurance Choices and Expands Program Risk (2026), *with Francis Tsiboe and Hongxi Zhao*

What Ending Prevented Planting Buy-Ups Means for Farmers' Insurance Costs (2026), *with Francis Tsiboe and Hongxi Zhao*

IEEPA Fertilizer Tariffs: Revenue, Relief, and Pass-Through (NDSU Agricultural Trade Monitor, 2026), *with Shawn Arita, Jiyeon Kim, Wuit Yi Lwin, Sandro Steinbach, Ming Wang, Xiting Zhuang*

Prevented Planting Buy-Up Coverage: Payments and Policy Changes (2025), *with Dylan Turner and Francis Tsiboe*

Rising Costs, Falling Prices: Regional Disparities Deepen Farm Financial Stress (2025), *with Shawn Arita and Francis Tsiboe*

Agricultural Tile Drainage in the U.S. Corn Belt: Past, Present, and Future (2024), *with Hongli Feng, David A. Hennessy, and Michael J. Castellano*

RESEARCH WORKS IN PROGRESS

- **Coverage Level Substitution After the Elimination of Prevented Planting Buy-Up**

Research Question: Does the elimination of prevented planting buy-up coverage induce substitution toward higher overall coverage level?
Keywords: Crop Insurance, Prevented Planting, Difference-in-Differences, Coverage Level Choice

- **Barriers to Voluntary Tile Drainage Investments in the U.S. Corn Belt**

Research Question: What are the barriers to tile drainage adoption in the US Corn Belt?
Keywords: Farmer Survey, Text Analysis, Partial Proportional Odds Model

- **Efficiency and Coordination of Tile Drainage Investments in the U.S. Corn Belt**

Research Question: In light of coordination issues, is drainage investment sufficient to maximize agricultural sector surplus in the US Corn Belt?
Keywords: Collective Action, Climate Change, Instrumental Variables, Propensity Score Matching

WORK EXPERIENCE

Junior Research Economist, Agricultural Risk Policy Centre, NDSU **August 2025-Present**

- Delivered rapid-turnaround analysis and visualizations on emerging agricultural policy issues, providing timely insights through varied policy outputs for diverse stakeholders

- Established data-sharing partnerships with external organizations to enhance research capabilities and collaboration
- Briefed diverse external stakeholders including policymakers, industry partners, and agricultural organizations on analytical findings

Economist Graduate Research Assistant, ISU Department of Economics **August 2022-August 2025**

- Quantified tile drainage adoption impacts using causal inference techniques, finding up to 12% higher corn yields under future climate scenarios
- Developed model-agnostic climate change metrics by integrating observed data with CMIP6 projections
- Identified knowledge gaps and information barriers to technology adoption through survey design, NLP analysis, and partial proportional odds modeling

Economics Help Room Supervisor, ISU Department of Economics **August 2021-May 2023**

- Managed a 20+ Teaching Assistants (TA) team comprising both peers and department seniors, and supervised the functioning of the help room, a supplemental instruction service for undergraduates
- Facilitated cross-department collaborations to provide professional development opportunities for TAs

Business Analyst, Affine Analytics Pvt. Ltd. **August 2019-August 2020**

- Optimized targeted ad placements by analyzing clickstream data with PySpark and machine learning, improving conversion rates for e-commerce clients
- Forecasted transportation sector demand using Random Forests and Linear Regression, collaborating across economics, data science, and engineering teams

TEACHING

Iowa State University

- **Instructor**, Principles of Microeconomics (Econ 101) **May 2022-August 2023**
- **Guest Lecturer**, Agricultural, Food and Trade Policy (ECON 460/560) **Spring, 2024**
- **Teaching Assistant**, Intermediate Microeconomics (ECON 301) **Spring, 2022; Fall 2021**
- **Teaching Assistant**, Principles of Microeconomics (ECON 101) **Winter 2023; Spring 2021; Fall 2020**
- **Teaching Certifications:**
  - **Preparing Future Faculty Scholar (Spring 2025)**
  - **Graduate Student Teaching Certificate (Spring 2025)**

SKILLS

Software/Programming: R, Stata, Python, ArcGIS, Excel, Latex, SQL, Qualtrics
Econometrics and Machine learning: Regression (Linear, Logistic, LASSO, Ridge, Random Forest), Panel Data Methods, Time Series Analysis, Clustering, Principal Component Analysis, Neural Networks
Causal Inference: Instrumental Variables, Propensity Score Matching, Difference-in-Differences, Synthetic Control, Regression Discontinuity, Double Machine Learning (DML)

SELECTED PRESENTATIONS

- Midwest Economics Association 87th Annual Meeting 2023, 2024, 2025
- Agricultural and Applied Economics (AAEA) Annual Meeting 2023, 2024
- Soil and Water Conservation Society International 78th Annual Conference 2023
- Heartland Environmental and Resource Economics Workshop 2023