R O S H A N S A H A

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Department of Agricultural Economics and Rural Sociology, Auburn University, Auburn, AL

Highlights

Researcher focused on issues at the intersection of people, agriculture and climate. 8 years of policy and academic research experience in topics ranging from international trade, sustainable development, virtual water trade to agricultural productivity, weather shocks and the economics of identity.

Skilled in quantitative modelling using a range of socio-economic and climate data; and qualitative data analysis using data from surveys, focus group discussions, and interviews.

Education

Auburn University, Auburn (Alabama), United States
Ph.D., Applied Economics *Fall 2021 – Fall 2026 (expected)*

Jadavpur University, Kolkata, India
M.A., Economics *2016 – 2018*

Jadavpur University, Kolkata, India
B.A., Economics *2013 – 2016*

Professional Experience

University Writing, Auburn University
Graduate Assistant & Writing Consultant *May 2026 – Present*
Provide one-on-one writing consultations to graduate students across disciplines.
Mentor writers on academic and professional documents, translating discipline-specific conventions into clear writing for varied audiences.
Participate in ongoing professional development and collaborate with Miller Writing Center staff to support a shared set of writing-instruction goals.

Observer Research Foundation, India
Junior Fellow *September 2020 – August 2021*
Conducted research on South Asian energy security cooperation and mineral trade flows.
Analyzed EU–Indo-Pacific trade partnership potential through game-theoretic analysis.

Observer Research Foundation, India
Research Assistant *June 2018 – August 2020*
Developed sub-national SDG index for 23 Indian states using 51 indicators based on secondary data.
Conducted policy research on agricultural productivity, water security, and India–Australia cooperation.

Teaching

Spring 2026

- **Instructor**, *Agricultural Prices (AGEC 5030/6030)*, Auburn University
  Designed and taught an upper-level undergraduate and graduate course (approximately 50 students) on agricultural price analysis, futures, options, and hedging strategies.
  Developed weekly assignments using real commodity market data, incorporated guest speakers from agricultural industries, and guided students through term projects connecting price risk to farm and agribusiness decision-making.
  Student evaluations averaged between 5.8 and 6.0 on a 6-point scale across core teaching dimensions (interaction, expectations, critical thinking, learning environment), with written comments emphasizing clarity of explanations, supportive and engaging classroom climate, and effective integration of real-world agricultural market examples.

Fall 2025

- **Guest Lecture**, *Introduction to Agricultural Econometrics (AGEC 7590)*, Auburn University
  Logit and probit models; applications in agricultural and social sciences using R, with reproducible code and hands-on examples.

Fall 2024

- **Guest Lecture**, *Introduction to Agricultural Econometrics (AGEC 7590)*, Auburn University
  Probit and logit models with application to European soccer leagues to illustrate binary choice methods and model evaluation.
- **Departmental Tutor**, *Microeconomics*, Auburn University
  Tutored undergraduate students in expected utility, imperfect competition, and insurance markets, emphasizing graphical intuition and problem-solving.

Research Assistant

Dr. Mykel R. Taylor *Fall 2021 – Fall 2024*

Nudging Landowners and Tenants toward Environmental and Social Stewardship

- Conducted qualitative coding of focus group discussions (using NVivo) on conservation behavior among landowners.
- Provided background research support in designing an experiment aimed at studying conservation behavior among landowners in the United States.

Farm Management Education

- Conducted qualitative coding of focus group discussions to identify key attributes for next-generation farm managers (NVivo).
- Synthesized industry stakeholder insights on educational needs for farm management curricula.

Dr. Kelli Russell and Dr. Mykel R. Taylor *Fall 2023 – Summer 2025*

SAgE Project: Farmers' Perception of Stress in Alabama

- Conducted a comprehensive literature review on farmer stress perceptions and mental health in agricultural communities.
- Presented findings at regional conference (Southern Rural Sociological Association, 2024).

Selected Publications

Journal Articles

[1] **Saha, Roshan**, Taylor, Mykel R, and Hartarska, Valentina. **2026**. "Caste Dominance in Agricultural Credit Markets, but for Whom? Evidence from India". In: *European Journal of Development Research*.

[2] **Saha, Roshan** and Chaudhury, Anasua Basu Ray. **2021a**. "Building a Regional Approach to Energy Security for BIMSTEC". In: *ORF Occasional Paper* 326.

[3] **Saha, Roshan** and Kapuria, Preeti. **2021b**. "Finding solutions to water scarcity: The potential of virtual water trade in agricultural products". In: *ORF Occasional Paper* 298.

[4] Kapuria, Preeti and **Saha, Roshan**. **2020**. "Resource use efficiency and productivity: An analysis of India's food grain sector". In: *ORF Occasional Paper* 229.

Book Chapters

[5] **Saha, Roshan** and Chaudhury, Anasua Basu Ray. **2025**. "Building Energy Partnerships in BIMSTEC: From Bilateral Relations to Regional Networks". In: *Shared Aspirations, Diverse Priorities: BIMSTEC Perspectives on Connectivity*. New Delhi: Observer Research Foundation and Global Policy Journal.

[6] **Saha, Roshan**. **2022**. "Land reforms and optimal farm size: linkages with rural inequality and socioeconomic development". In: *Sustainable Development in Action: Examining Global North-South Divergences*. New Delhi: ORF and Global Policy Journal.

[7] Ghosh, Nilanjan, Bhowmick, Soumya, and **Saha, Roshan**. **2020**. "Clean Water and Sanitation: India's Present and Future Prospects". In: *Sustainable Development Goals: An Indian Perspective*. Springer, pp. 95–105.

Technical Reports

[8] Massey, Ray, Penados, Julio, Segovia, Michelle, Taylor, Mykel, and **Saha, Roshan**. **2024**. *Incorporating Conservation Practices Into Agricultural Leases*. 24th Congress, Saskatoon, Canada, 2024 400143. International Farm Management Association. URL: https://EconPapers.repec.org/RePEc:ags:ifma24:400143.

Popular Press Articles

[9] **Saha, Roshan**, Taylor, Mykel R, and Won, Sunjae. **2025**. *When irrigation isn't enough: protecting wages from rainfall shocks*. Econ That Matters.

[10] **Saha, Roshan**. **2021**. *Sustainable Consumption: Big Gap Between Consumer Attitude and Intent*. ORF Expert Speak.

[11] **Saha, Roshan** and Kapuria, Preeti. **2020a**. *Virtual Water Trade in Water-Intensive Agriculture Commodities: An Alternative to Interlinking of Rivers*. ORF Expert Speak.

[12] **Saha, Roshan** and Kapuria, Preeti. **2020b**. *Water: A Binding Constraint for Agriculture in India*. ORF Expert Speak.

[13] Ghosh, Nilajan, Bhowmick, Soumya, and **Saha, Roshan**. **2019a**. *A Social Index for Ease of Doing Business*. The Hindu Business Line.

[14] Ghosh, Nilanjan, Bhowmick, Soumya, and **Saha, Roshan**. **2019b**. *The Sustainable Business Index*. Mail Today.

[15] **Saha, Roshan**. **2019c**. *Nutritional Security and Efficient Markets: Necessary for NFSA Success*. ORF Expert Speak.

Work in Progress

[16] **Saha, Roshan** and Bhowmick, Disharee. **2026**. "Coded Caste Appeals in Indian Campaign Rhetoric: A Machine Learning Approach". In: *Working Paper*.

[17] Attah, Festus, **Saha, Roshan**, and Taylor, Mykel R. **2025a**. "Oligopsony Market Power in Ghana Cocoa Sourcing". In: *Working Paper*.

[18] **Saha, Roshan**, Taylor, Mykel R, and Won, Sunjae. **2025b**. "Have you ever seen the rain? Effect of rainfall shocks on agricultural wages in India". In: *Working Paper*.

[19] **Saha, Roshan**, Won, Sunjae, and Taylor, Mykel R. **2025c**. "Beyond Single Shocks: Copula Modelling the Effect of Joint Temperature and Rainfall Shocks on Crop Yields in India". In: *Working Paper*.

Conference and Seminar Presentations

2025

– AAEA & WAEA Annual Meeting, Denver, CO – Effect of Rainfall Shocks on Male Agricultural Wages.

2024

– Delhi School of Economics Winter School, New Delhi, India – When it Rains, it Pours: Effect of Rainfall Shocks on Agricultural Wages.

– Southern Agricultural Economics Association, Atlanta, GA – Oligopsony Market Power in Ghana Cocoa Sourcing.

– Southern Rural Sociological Association, Atlanta, GA – Farmers' Perception of Farm Stress in the US.

– Agricultural and Applied Economics Association, New Orleans, LA – Caste Dominance in Rural Credit Markets: Evidence from India.

2023

– Southern Economic Association, New Orleans, LA – Role of Caste in Land Leasing and Credit Market Outcomes in India.

– Alabama Extension Ag Outlook Conference, Montgomery, AL – Farm Management Education: Insights from Industry Stakeholders.

2022

– Southern Agricultural Economics Association, Oklahoma City, OK – Determinants of Land Ownership and Lease Choice.

Awards and Honors

– Finalist, USDA Local Food Economics Data Visualization Challenge, AAEA Annual Meeting 2024, New Orleans, LA.

– Quality of Research Award 2024–25, Department of Agricultural Economics and Rural Sociology, Auburn University.

Skills

Technical: LaTeX, Stata, R, Python, NVivo, GIS, Microsoft Office Suite, Econometric Modelling, AI-ML based models.
Soft skills: Peer Mentorship, Communication, Critical Thinking, Organization, Accessibility

References

Dr. Mykel R. Taylor
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