

Siddhartha S. Bora

Curriculum Vitae

January 2026

Current Position (August 2022–)

Assistant Professor
School for Community & Economic Development
Davis College of Agriculture & Natural Resources
West Virginia University (WVU)

Contact

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Research Interests

Food and Commodity Markets, Forecasting, Big Data, Agricultural Finance

Education

- Ph.D. in Agricultural Economics, Department of Agricultural, Environmental, and Development Economics (AEDE), The Ohio State University 2022
Dissertation Title: *Evaluating USDA Agricultural Forecasts*
Advisor: Ani L. Katchova
- M.S. in Agricultural Economics, Department of AEDE, The Ohio State University 2019
- Post Graduate Diploma in Rural Management, Institute of Rural Management Anand (IRMA), India 2015
- B.Tech., Electronics and Communications Engineering, National Institute of Technology (NIT), Warangal, India 2011

Employment History

- Graduate Research Assistant, Farm Income Enhancement Program, Department of AEDE, The Ohio State University 2017–2022
- Manager–Research, Sambodhi Research and Communications Pvt. Ltd., India 2015–2016
Roles: Managed large-scale research studies for government and nonprofit clients, prepared competitive grant proposals, and conducted executive trainings.
- Instrumentation and Control Engineer, NTPC Limited, India 2011–2012

Peer-Reviewed Journal Publications

- Fiechter, C., Bora, S. S., & Kuethe, T. H. (2025). The loss function of USDA forecasters: Evidence from WASDE animal product price forecasts. *Journal of Agricultural and Applied Economics*, 1–18. <https://doi.org/10.1017/aae.2025.10031>
- Francis, E., Mackereth, I., Bora, S., Arbogast, D., & Deng, J. (2025). Parameterized reports for data-driven tourism, parks, and recreation management using Quarto and multimodal AI. *Journal of Park and Recreation Administration*.
<https://doi.org/10.18666/JPra-2025-13124>

- Goswami, A., & Bora, S. (2025). Short-term and long-term response of planting behavior to climate in the U.S. Corn Belt. *Review of Regional Studies*, 55(1), 59–76. <https://doi.org/10.52324/001c.137492>
- Bora, S., & Katchova, A. (2024). Multi-step commodity forecasts using deep learning. *Agricultural Finance Review*, 84(4–5), 269–296. <https://doi.org/10.1108/AFR-08-2023-0105>
- Bora, S. S., Katchova, A. L., & Kuethe, T. H. (2023). The accuracy and informativeness of agricultural baselines. *American Journal of Agricultural Economics*, 105(4), 1116–1148. <https://doi.org/10.1111/ajae.12350>
- Kuethe, T. H., Bora, S. S., & Katchova, A. L. (2022). Improving ERS’s net cash income forecasts using USDA baseline projections. *Journal of Agricultural and Resource Economics*, 47(2), 246–261. <https://doi.org/10.22004/ag.econ.310528>
- Bora, S. S., Katchova, A. L., & Kuethe, T. H. (2021). The rationality of USDA forecasts under multivariate asymmetric loss. *American Journal of Agricultural Economics*, 103(3), 1006–1033. <https://doi.org/10.1111/ajae.12142>
- Raj, A., Dey, A., Boyce, S., Seth, A., Bora, S., Chandurkar, D., Hay, K., Singh, K., Das, A., Chakraverty, A., Ramakrishnan, A., Shetye, M., Saggurti, N., & Silverman, J. (2017). Associations between mistreatment by a provider during childbirth and maternal health complications in Uttar Pradesh, India. *Maternal and Child Health Journal*, 21, 1821–1833. <https://doi.org/10.1007/s10995-017-2298-8>

Teaching and Advising

Instructor at West Virginia University:

- ARE110: Agribusiness Accounting Fall 2025
- AGEE110: Computer Applications in Agricultural Education Fall 2024
- ARE380: Agribusiness Sales and Management Spring 2026
- ARE440: Futures Market and Commodity Prices Spring 2023, 2024, 2025, 2026
- ARE450: Agricultural, Environmental and Resource Policy Spring 2024, 2025
- ARE601: Applied Microeconomics Fall 2024
- ARE693A: Special Topics in Big Data Applications in Agriculture Spring 2024
- ARE703: Advanced Natural Resource Economics Theory Fall 2025

Teaching Assistant at The Ohio State University:

- AEDECON6110: Applied Quantitative Methods I Fall 2020
- AEDECON2001: Principles of Food and Resource Economics Fall 2018

Undergraduate Research Advising: (*) denotes an undergraduate student

- ARE496 (co-Instructor): Undergraduate Capstone Thesis Spring 2023–present
- HONR497: Faculty Mentor for the WVU Summer Undergraduate Research Experience (SURE) Program 2024, 2025

- Emma Francis*, “Determinants of Carbon Prices: Insights from Nature-Based Global Emissions Offset Futures,” Presentation at undergraduate student paper competition by SS-AAEA at 2024 AAEA Annual Meeting, New Orleans, LA, July 28–30, 2024.
- Emma Francis*, “Determinants of Carbon Prices: Insights from Nature-Based Global Emissions Offset Futures,” Poster Presentation, 17th Annual Summer Undergraduate Research Symposium, hosted by WVU Office of Undergraduate Research, July 25, 2024. [\[link\]](#)
- Clay Karnis*, Ivy Mackereth, Siddhartha Bora, “Visualizing Food Security in Appalachian Communities using R Shiny,” Poster Presentation, 17th Annual Summer Undergraduate Research Symposium, hosted by WVU Office of Undergraduate Research, July 25, 2024. [\[link\]](#)
- Mathew Riordan*, “Predicting the Effectiveness of Chess Openings,” Presentation at undergraduate student paper competition by SS-AAEA at 2024 AAEA Annual Meeting, Denver, CO, July 27–29, 2025.
- Matthew Riordan*, Siddhartha Bora, “Decision Making Under Time Trouble: Evidence from Chess Tournaments,” 18th Annual Summer Undergraduate Research Symposium, hosted by WVU Office of Undergraduate Research, July 24, 2025.

Graduate Student Advising (with graduation year):

- H el ene Nguemgaing, Ph.D. Dissertation Committee Member, West Virginia University, 2025
- Pedro Antonio Diaz Cachay, M.S. Thesis Committee Member, Purdue University, 2023
- Gemillie Giron Soto, M.S. Examination Committee Member, West Virginia University, 2023

Conference/Workshop/Webinar Presentations

- Bora, S., “Advising Student Research in Applied Economics: A Remote Pair Programming Approach,” Excellence in Education: Teaching Faculty Symposium, WVU ADVANCE Center, November 11, 2025, Morgantown, WV.
- Bora, S., “Teaching Mathematical Optimization in Natural Resource Economics Using JuMP/Julia,” Oral Presentation, 95th Annual Meeting of Southern Economic Association, November 22–24, 2025, Tampa, FL.
- Mackereth, I., & Bora, S., “Economic Value of Rural State Parks Using Mobile Device Data: An Application of the Travel Cost Method,” Poster Presentation, Association of Environmental and Resource Economists (AERE) 2025 Summer Conference, May 28–30, 2025, Santa Ana Pueblo, NM (Mackereth presented).
- Francis, A., Bora, S., Deng, J., & Arbogast, D., “Parameterized Reports for Data-Driven Tourism Management in Rural Appalachia,” Presentation, 2025 National Environment and Recreation Research Symposium, March 30–April 1, 2025, Virginia Beach, VA (Deng presented).
- Mackereth, I., Bora, S., & Deng, J., “Disparities in Recreational Use of Urban Parks: A Big Data Approach,” Presentation, The Symposium on Spatiotemporal Data Science, Virginia Tech Research Center–Arlington & George Mason Square, July 23–24, 2024.

- Goswami, A., & Bora, S., “Short-term and Long-term Adaptation of Planting Behavior to Climate,” Presentation, NAREEA 2024 Annual Meeting, Rehoboth Beach, DE, June 11, 2024.
- Bora, S., Goyal, R., Li, Q., & Li, W., “Impact of Market Sentiment around USDA Announcements on Agricultural Commodity Markets,” Selected Presentation at Agricultural & Applied Economics Association (AAEA) Annual Meetings, Washington, DC, July 23–25, 2023.
- Goyal, R., & Bora, S., “Belief Distortions in US Production and Yield Expectations,” NCCC-134 Conference on Applied Commodity Analysis, Forecasting, and Market Risk Management, St. Louis, MO, April 25, 2023 (Goyal presented).
- Bora, S., & Katchova, A. L., “Multi-horizon Forecasts of Agricultural Commodity Prices using Deep Learning,” Selected Presentation at Agricultural & Applied Economics Association (AAEA) Annual Meeting, Anaheim, CA, August 1, 2022.
- Bora, S. S., & Katchova, A. L., “Agricultural Baselines using Deep Learning,” NCCC-134 Conference on Applied Commodity Analysis, Forecasting, and Market Risk Management, St. Louis, MO, April 25, 2022.
- Bora, S., & Kim, K., “Global Shock and Small Firm Failures: How Small Credit Unions Are Reacting to Uncertainty during COVID-19?” NC-1177 Multi-state Research Project on Agricultural and Rural Finance Markets in Transition 2021 Virtual Annual Meeting, October 6, 2021.
- Kuethe, T., Bora, S., & Katchova, A. L., “Improving ERS’s Net Cash Income Forecasts using USDA Baseline Projections,” AAEA Annual Meeting, Austin, TX, August 2, 2021.
- Bora, S., Katchova, A. L., & Kuethe, T., “Evaluating USDA’s Baseline Projections,” 2021 NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting and Market Risk Management, April 19, 2021.
- Bora, S., Katchova, A. L., & Kuethe, T., “How Accurate are the USDA’s Agricultural Baseline Projections?” NC-1177 Multi-state Research Project on Agricultural and Rural Finance Markets in Transition 2020 Virtual Annual Meeting, October 19, 2020.
- Bora, S., Katchova, A. L., & Kuethe, T., “Evaluating USDA’s Net Cash Income Forecasts under Multivariate Asymmetric Loss,” National Agricultural Credit Conference/NC-1177 Multi-State Hatch Project Meeting, Dallas, TX, October 9, 2019.
- Flash Talk on “Evaluating USDA Net Cash Income Forecasts under Multivariate Asymmetric Loss” at Statewide Users Group Conference, Ohio Supercomputer Center, October 17, 2019.
- Chandurkar, D., Bora, S., Das, A., Tripathi, A., Saggurti, N., & Raj, A., “Scorecards and dashboards to assure data quality of health management information system (HMIS) using R,” Proceedings of the 8th Annual Conference on the Science of Dissemination and Implementation, Washington, DC, December 2015 (Raj presented).
- Bora, S. S., Dhuli, R., & Lall, B. (2010). Mixed H_2/H_∞ design of non-uniform filter banks using an efficient realisation of synthesis stage. *2010 Annual IEEE India Conference (INDICON)*, 1–4. <https://doi.org/10.1109/INDICON.2010.5712734>
- Bora, S. S., Karuna, Y., Dhuli, R., & Lall, B. (2010). IIR deconvolution from noisy observations using Kalman filtering. *2010 International Conference on Signal and Image Processing*, 339–342. <https://doi.org/10.1109/ICSIP.2010.5697494> (Dhuli presented)

- Bora, S. S., Dhuli, R., & Lall, B. (2010). Designing the inverse of an LPTV system using H_∞ optimization. *2010 5th International Conference on Industrial and Information Systems*, 314–318. <https://doi.org/10.1109/ICIINFS.2010.5578688>

Extension/Outreach/Media

Reports and Presentations

- “Are Ohio farmers expected to receive higher farm income in 2021?” Outreach report, September 3, 2021. [\[link\]](#)
- “The Accuracy and Informativeness of Agricultural Baselines,” Outreach report, April 29, 2021. [\[link\]](#)
- “Are Our Farms Financially Secure?” Presentation to stakeholders at “Ask the Expert,” OSU Farm Science Review, September 21, 2021, London, OH. [\[link\]](#)

News Articles/Media Mentions

- “The Accuracy and Informativeness of Agricultural Baselines: AAEEA members’ new research released in AJAE,” Press release by Agricultural and Applied Economics Association (AAEA), August 27, 2022. [\[link\]](#)
- “AEDE’s Ani Katchova and Siddhartha Bora win Outstanding Research Award from AAEEA-AFM section,” AEDE Website, August 1, 2021. [\[link\]](#)
- “Sid Bora wins 2021 Bernie Erven Outstanding Teacher Award,” AEDE Website, July 7, 2021. [\[link\]](#)
- “The Accuracy and Informativeness of Agricultural Baselines,” Ohio Ag Manager, May 3, 2021. [\[link\]](#)
- “DEI Student Spotlight: Siddhartha Bora,” CFAES Website, April 1, 2021. [\[link\]](#)
- “AEDE’s Siddhartha Bora Awarded 2021 William E. Krauss Director’s Award for Excellence in Graduate Research,” AEDE Website, February 2, 2021. [\[link\]](#)
- “Are the USDA Forecasts Rational?” OSU-AEDE Watercooler Economics, September 4, 2020. [\[link\]](#)

Grants

Active:

- “Developing New Graduate Course on Big Data,” Clyde H. Hibbs Environmental Education Endowment, Amount: \$1,525
- Kaye C. Daniel Faculty Development Award, 2023. Amount: \$2,740
- Hatch Project (WVA00779) “Improving Efficiency and Sustainability of Agricultural Systems Using Big Data,” National Institute of Food and Agriculture (NIFA), U.S. Department of Agriculture (USDA), 2023–2028.

Workshop/Faculty Development

- AAEA Early Career Professionals Workshop: Supporting Scholars to Thrive in Applied Economics, University of California, Davis campus, Davis, CA, December 13–15, 2024.
- NAREA 2024 Annual Post-Conference Workshop: Measuring and Enhancing Resilience of United States Rural Communities in the Context of Climate Variability, Rehoboth Beach, DE, June 11–12, 2024.
- Mentee, NAREA Career Advancement and Mentorship (CAM) Program, 2023–24 Cohort.
- Attended Post-Conference Workshop on “Issues of Land Succession, Social Equity, and Environmental Justice Affecting Agriculture,” NAREA Annual Meeting, June 13–14, 2023, Annapolis, MD.
- Completed course on “Creating an Inclusive and Supportive Learning Environment” by the Association of College and University Educators (ACUE), Spring 2023.
- Attended Two Day Workshop, “Write Winning Grant Proposals (USDA-NIFA Version)” from Grant Writers’ Seminars & Workshops, presented by John D. Robertson, September 23 and 30, 2022.
- Attended workshop on “Leadership Development for Agricultural and Applied Economists,” AAEA Annual Meeting 2022 Pre-Conference Workshops, July 30, 2022.

Awards and Honors

- Outstanding Research Award, Agricultural Finance and Management (AFM) Section, AAEA, 2021.
- William E. Krauss Director’s Award for Excellence in Graduate Research, College of Food, Agricultural and Environmental Sciences (CFAES), The Ohio State University, 2021.
- Bernie Erven Outstanding Teacher Award, Dept. of AEDE, The Ohio State University, 2021.

Service/Leadership

- Member of Organizing Committee, Student Research and Creative Scholarship Day, WVU Davis College 2025
- Member, Curriculum Committee of WVU Davis College, responsible for reviewing new course/program proposals across disciplines 2024–
- Faculty Working Group on AI and Data Science, WVU 2023–2024
- Topic Leader for selected presentations for the track sessions of the Agricultural Finance and Management Section, AAEA Annual Meetings
- Faculty Advisor, WVU Cricket Club 2023–
- Graduate Committee Member, Division of Resource Economics and Management, Davis College of Agriculture, Natural Resources, and Design, WVU 2022–2025
- Special Events Committee, Davis College of Agriculture, Natural Resources, and Design, WVU 2022–2024

- Panel member of College of Food, Agricultural, and Environmental Sciences (CFAES) Internal Grants Program, The Ohio State University 2021
- *Treasurer*, AEDE Graduate Student Association 2019–2021
- Reviewer: Agricultural Finance Review, Australian Journal of Agricultural and Resource Economics, Canadian Journal of Agricultural Economics, Energy Economics, Agricultural Economics, Food Policy, Journal of Agricultural and Applied Economics Association, Journal of Agricultural and Applied Economics, AAEA Annual Meeting abstracts (2022, 2023), WAEA Annual Meeting abstracts (2023)

Professional Affiliations/Certifications

- CFA® Level II Candidate (Scheduled for May 2026)
- Association of Environmental and Resource Economists (AERE) 2025–present
- Agricultural and Applied Economics Association (AAEA) 2019–present
- Northeastern Agricultural and Resource Economics Association (NAREA) 2023–present
- Participant, NC1177: Agricultural and Rural Finance Markets in Transition (Multistate Research Project) 2023–present
- Participant, NCCC134: Applied Commodity Price Analysis, Forecasting, and Market Risk Management (Multistate Research Coordinating Committee and Information Exchange Group) 2023–present

Other Professional Experience

- Internship, Feasibility Study for Establishing a Community Radio Station at Morigaon, Assam, with Centre for Rural Development, Guwahati, India 2014
- Internship, Developing Monitoring and Evaluation Framework for MKSP (women farmer's empowerment program) in Assam, with Centre for Microfinance and Livelihood, Guwahati, India 2014
- Internship, A Study of Microfinance Activities in Kanjirapuzha Panchayat, with Kudumbashree, State Poverty Eradication Mission, Government of Kerala, India 2013