NATALIE R. LODUCA

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EDUCATION

PhD Agricultural, Food, and Resource Economics, Michigan State University   exp. 2024
Advisor: Dr. Scott Swinton

MS Agricultural Economics, Purdue University   2020
Advisor: Dr. Carson Reeling

BS Managerial Economics, University of California, Davis   2016
Minor in Statistics

JOB MARKET PAPER

"Farmers' Risk Preferences in General versus Contextual Lottery Experiments" with Scott M. Swinton. In progress.

Understanding farmers' risk attitudes is critical to predicting their decisions about climate change adaptation. This research empirically estimates the risk aversion of Michigan corn-soybean farmers based on general lottery choices that we compare to lottery choices presented in a crop farming context. We find that in the context of agricultural investment decisions and in general lottery gambles, participants have decreasing absolute risk aversion. This means that as wealth increases individuals are willing to take on more risk. However, for general lottery gambles, participants are willing to invest a higher proportion of wealth in risky assets as wealth increases while the opposite is true in the context of agricultural investments. These findings provide evidence that results from contextual experiments can differ from results in a general context due to participants' prior knowledge and experiences.

SELECTED ONGOING PROJECTS

"How Scale and Scope of Ecosystem Markets Impact Permit Trading: Evidence from Partial Equilibrium Modeling in the Chesapeake Bay Watershed" with Iman Haqiqi, Jing Liu, and Carson J. Reeling**.** In progress.

This paper uses the Simplified International Model of agricultural Prices, Land use and the Environment, on a Grid model (SIMPLE_G), a national-scale partial equilibrium model of agricultural production, to analyze the effects of market-based pollution abatement policies on the behavior of agricultural producers in the Chesapeake Bay Watershed. We simulate how permit trading affects producers' input use decisions and pollution emissions by modifying the supply nest structure of the model to include water quality, habitat, and carbon permits as an additional output from agricultural production. This allows us to explore the consequences of regional-scale stacking policies or how the scope of the market affects pollution abatement and input use.

RESEARCH EXPERIENCE

Research Assistant, Michigan State University, East Lansing, MI   2020-present
Advisor: Dr. Scott Swinton

Intern, U.S. Department of Agriculture Economic Research Service, Remote   2023
Advisor: Dr. Sun Ling Wang

Research Assistant, Purdue University, West Lafayette, IN   2018–2020
Advisor: Dr. Carson Reeling

HONORS AND AWARDS

KBS-LTER Graduate Research Fellowship   2022
Kellogg Biological Station, Michigan State University

Agricultural Economics' Outstanding Thesis   2021
Purdue University

Agricultural Research Graduate Diversity Research Fellowship   2018-2019
Purdue University

INVITED PRESENTATIONS

Agricultural & Applied Economics Association Annual Meeting, Washington, D.C.	2023
NSF Long-Term Ecological Research All-Scientist Meeting, Monterey, CA	2022
Agricultural & Applied Economics Association Annual Meeting, Virtual	2020
US-China Young Professional Forum, West Lafayette, IN	2019
Agricultural & Applied Economics Association Annual Meeting, Atlanta, GA	2019

PROFESSIONAL SERVICE

Graduate Student Representative, Committee on Women in Agricultural Economics   2021 – 2023
Agricultural & Applied Economics Association

Social Media Team, Committee on Women in Agricultural Economics   2020 – 2023
Agricultural & Applied Economics Association

Award Committee, Department of Agricultural Economics   2019-2020
Purdue University

PROGRAMS

Stata, R studio, GAMS, ArcGIS

REFERENCES

Dr. Scott Swinton	**Dr. Frank Lupi**	**Dr. Sun Ling Wang**
Distinguished Professor	Professor	Senior Economist
Dept. of Agricultural, Food, and Resource Economics	Dept. of Agricultural, Food, and Resource Economics	Economic Research Service United States Department of Agriculture
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