

CONTACT INFORMATION	1 (217) 305-2300 noejnava2@gmail.com <a href="https://noejn2.github.io/">https://noejn2.github.io/</a>  Citizenship: United States of America and México	
POSITIONS	<b>USDA Economic Research Service</b> Research Agricultural Economist Market and Trade Economics Division, Agricultural and Policy Models branch	2022 - 2025
EDUCATION	<b>Ph.D., Agricultural and Applied Economics</b> University of Illinois Urbana-Champaign, IL Advisor: William Ridley Dissertation: Three Essays on Agricultural and Consumer Economics, <i>Outstanding Doctoral Dissertation Award</i> Committee: William Ridley (chair), Sandy Dall'Erba, Yilan Xu, and Rafael Garduño-Rivera  <b>B.A., Mathematical Economics</b> California State University, San Bernardino, San Bernardino, CA Advisor: Kazim Konyar <i>Summa Cum Laude</i>	2021       2016
RESEARCH INTERESTS	<b>Methods</b> Bayesian data analysis General equilibrium models Structural econometrics	<b>Fields</b> Agricultural production Consumption economics Food systems
JOURNAL ARTICLES	<ol style="list-style-type: none"> <li>1. <i>Land competition and poverty effects from the Mexico's proposal to ban Genetically Engineered corn.</i> <b>American Journal of Agricultural Economics</b> 106(3): 1300-1325. with Jayson Beckman, Angelica Williams, and Steven Zahniser. doi:10.1111/ajae.12463</li> <li>2. <i>Losing Ground: Measuring the Welfare Effects of Retail Food Price Inflation during the COVID-19 Pandemic on Mexican Household.</i> <b>Journal of Agriculture and Food Industrial Organization</b> 22 (2): 143-154. with Benjamin D.K. Wood, and Rafael Garduño-Rivera. doi:10.1515/jafio-2023-0041</li> <li>3. <i>Estimation of the Value-Added/Intermediate Input Substitution Elasticities Consistent with the GTAP Data.</i> 2023. <b>Journal of Global Economic Analysis</b> 8(2): 134-158. with Jayson Beckman, and Maros Ivanic. doi:10.21642/JGEA.080204AF</li> </ol>	

4. *A model of the U.S. food system: What are the determinants of the state vulnerabilities to production shocks and supply chain disruptions?* 2023. **Agricultural Economics** 54(1): 95-109. <sup>1</sup> <sup>2</sup>  
with William Ridley, and Sandy Dall’Erba.  
doi:10.1111/agec.12750
5. *The impact of taxing sugary-sweetened beverages in México: A censored QUAID demand system approach.* 2022. **Journal of Agricultural and Applied Economics Association** 1(1): 18-32.  
with Diansheng Dong.  
doi:10.1002/jaa2.6
6. *U.S. interstate trade will mitigate the negative impact of climate change on crop profit.* 2021. **American Journal of Agricultural Economics** 103(5): 1720-1741.  
with Sandy Dall’Erba, and Zhangliang Chen.  
doi:10.1111/ajae.12204
7. *The impacts of agroforestry on agricultural productivity, ecosystem services, and human well-being in low- and middle-income countries: An evidence and gap map.* 2020. **Campbell Systematic Reviews** 16(1): e1066.  
with Daniel C. Miller, Pablo J. Ordoñez, Sarah E. Brown, Samantha Forrest, Karl Hughes, and Kathy Baylis.  
doi:10.1002/cl2.1066
8. *The conduits and barriers to reentry for formerly incarcerated individuals in San Bernardino.* 2018. **Journal of Prison Education and Reentry** 5(1): 2-17.  
with Annika Anderson, and Patricia Cortez.  
doi:10.25771/sdf0-1631

## BOOK CHAPTERS

1. *Climate and Weather Impacts on Agricultural Productivity.* 2024. (Not yet published in) **Encyclopedia of Energy, Natural Resource, and Environmental Economics, 2e.**  
with Eric Njuki, and Boris E Bravo-Ureta.

U.S.  
DEPARTMENT OF  
AGRICULTURE,  
ECONOMICS  
RESEARCH  
SERVICE

1. *International Income and Price Elasticity Estimates: An Update* 2025 **Technical Bulletin** TB-1971.  
with Yacob Abrehe Zereyesus, Tian Xia, Xianghong Li, and Lila Cardell
2. *Potential Budgetary Impacts of Climate Change on the Pasture, Rangeland, and Forage Insurance Plan* 2024 **Economic Brief** EB-38: 25pp.  
with Dylan Turner, Katherine Baldwin, Jayson Beckman, Francis Tsiboe, and Kate Vaiknoras.

<sup>1</sup>Most Outstanding Second Year Research Paper at University of Illinois at Urbana-Champaign-ACE 2020.

<sup>2</sup>The Charles M. Tiebout Prize in Regional Science 2021.

3. *ERS Research Models Future Effects of Climate Change on Corn and Soybean Yields, Production, and Exports 2024* **Amber Waves** 1545-8741.  
with Jayson Beckman.  
ERS Amber Waves, March 04, 2024
4. *Estimating the market and trade implications from climate-Induced corn and soybean yield changes for the U.S.* 2023 **Economics Research Report** ERR-324: 31pp.  
with Jayson Beckman, and Maros Ivanic.
5. *Warming temperatures in U.S. Corn Belt expected to continue into next decade.*  
Charts of Note, December 5, 2023

#### WORKING PAPERS

1. *Tracing U.S. county-to-county domestic trade flows in grains.*  
with William Ridley, Sandy Dall’Erba, Jian Zou, Youning Chen, and Christa Court.  
AAEA discussion paper
2. *The Impact of International Demand for Cereals on U.S. Crop Land Appreciation: A Model Implied Instrumental Variable Approach*  
with William Ridley, and Stephen Morgan.  
AAEA discussion paper
3. *Does trade openness affect global grain supply response?*  
with Jacob Zereyesus, Jennifer Kee, Stephen Morgan, Nathan Hendricks, Michael Johnson, Lila Cardell, Jeremy Jelliffe, and Walter Acpangan.  
AAEA discussion paper
4. *Estimation of the factor transformation elasticities consistent with the GTAP data.*  
with Jayscon Beckman, and Maros Ivanic.
5. *Incorporating the Land Allocation System into the GTAP framework*  
with Kristiina Ala-Kokko, Jayson Beckman, and Maros Ivanic.  
GTAP discussion paper
6. *Heterogenous patterns of crop yield growth stagnation across U.S. counties in the next decade*  
Solo paper.
7. *Agro-climatic patterns for the Corn Belt towards the middle of the century.*  
with Eric Njuki, Jayson Beckman, and Maros Ivanic.
8. *Revisiting the impact of climate change on agriculture through spatially-varying and place-tailored Ricardian estimates.*  
with Sandy Dall’Erba, Chang Cai, and A. Stewart Fotheringham.  
CREATE discussion paper

PAPERS IN PREPARATION	<ol style="list-style-type: none"> <li>1. <i>Is agricultural insurance a safety net or a net of complacency amidst adaptation to extreme weather events?</i> with Francis Tsioboe, Dylan Turner, Katherine Baldwin, and Sharon Raszap.</li> <li>2. <i>Designing policies to achieve healthy and sustainable diets</i> with Grace Melo-Guerrero.</li> </ol>
FELLOWSHIPS, GRANTS AND SCHOLARSHIPS	<ul style="list-style-type: none"> <li>• The impact of climate change on agricultural production, productivity, and trade (\$403,152) 2023</li> <li>• Improving the capabilities of global trade models to analyze changes in land use/land cover and green house emissions (\$280,000) 2023</li> <li>• A global agricultural supply-demand-climate-trade model calibrated to Baseline (\$375,000) 2022</li> <li>• Towards a data hub of global daily weather forecasts for the ERS (<b>PI</b>) (\$30,000) 2022</li> <li>• ERS' international supply forecasting (\$30,000) 2022</li> <li>• International food consumption patterns-implications for global food security and trade (\$25,000) 2022</li> <li>• The Charles M. Tiebout Prize in Regional Science (\$1,000) 2021</li> <li>• Cleo Fitzsimmons Award (\$500) 2020</li> <li>• Agricultural and Consumer Economics Department Grant (\$400) 2019</li> <li>• Marshall Scott Fellowship (\$4,877.85) 2018</li> <li>• Brockson Fellowship (\$3,902.28) 2017</li> <li>• The Proactive Recruitment in Introductory Science and Mathematics Travel Grant (\$1,000) 2016</li> <li>• The Proactive Recruitment in Introductory Science and Mathematics Research Grant (\$2,000) 2015</li> <li>• The John &amp; June Kennedy Economics Scholarship (\$1,500) 2015</li> </ul>
AWARDS AND HONORS	<ul style="list-style-type: none"> <li>• Outstanding Doctoral Dissertation Award, University of Illinois at Urbana-Champaign-ACE 2021</li> <li>• The Charles M. Tiebout Prize in Regional Science 2021</li> <li>• Farm foundation Agricultural Scholar 2021</li> <li>• Most Outstanding Second Year Research Paper, University of Illinois at Urbana-Champaign-ACE 2020</li> </ul>
TEACHING AND MENTORSHIP EXPERIENCE	<p><b>Mentor at ERS Summer internship</b> Kristiina Ala-Kokko (Kansas State University) 2022</p> <p><b>Teaching Assistant</b> ACE 240: Personal Financial Planning FA19 Instructor: Paul B Stoddard, Senior Lecturer <i>Lecture:</i> 160 students University of Illinois at Urbana-Champaign, IL Undergraduate Credit: 4 Hours.</p> <p>ACE 231: Food and Agribusiness Management SP18</p>

Instructor: Paul B Stoddard, Senior Lecturer  
*Lecture:* 160 students  
 University of Illinois at Urbana-Champaign, IL  
 Undergraduate Credit: 4 Hours.

ACE 341AMM: Issues in Agribusiness Markets and Management FA17  
 Instructor: Paul B Stoddard, Senior Lecturer  
*Lecture:* 20 students  
 University of Illinois at Urbana-Champaign, IL  
 Undergraduate Credit: 3 Hours.

#### RESEARCH IN THE NEWS

1. *Climate Impacts on Corn and Soybean Yields by Mid-2030s* in Progressive Farmer
2. *"Climate change is real;" Researchers warn extreme weather events could impact Illinois agriculture* in WCIA.com
3. *Trade Insurance* in Jayson Lusk, Food and Agricultural Economist, personal blog.

#### RESEARCH ASSISTANTSHIPS

##### **Interstate Trade as Mitigating Factor for the Effects of Climate Change on Illinois Agriculture**

January 2020 - December 2021  
 How do the interstate trade flows of Illinois farm products respond to extreme weather events?  
 University of Illinois at Urbana-Champaign, IL  
 Supervisor: Prof. William Clifton Ridley

#### WORK EXPERIENCE

##### **Intern**

Department of Agriculture, U.S., Economic Research Service  
 Market & Trade Economics Division  
 Agricultural Policy and Models Branch  
 Kansas City, MO

Summer 2021

##### **Intern**

Department of Agriculture, U.S., National Agricultural Statistics Service  
 Environmental, Economics and Demographics  
 Washington, DC

2016 - 2017

##### **Intern**

Department of Agriculture, U.S., Rural Development  
 Rural Housing Service  
 Washington, DC

2015 - 2016

SELECTED PRESENTATIONS	<b>The Impact of International Demand for Agricultural Products on U.S. Cropland Appreciation: A Model-Implied Instrumental Variable Approach</b>	Agricultural & Applied Economics Association (AAEA)	2024
	<b>The Impact of International Demand for Agricultural Products on U.S. Cropland Appreciation: A Model-Implied Instrumental Variable Approach</b>	The International Agricultural Trade Research Consortium (IATRC)	2023
	<b>Heterogeneous Patterns of Crop Yield Growth Stagnation across U.S. Counties in the Next Decade</b>	Agricultural & Applied Economics Association (AAEA)	2023
		Track Session: Studying Climate Change Impacts from Different Methodological Perspectives	
	<b>The probabilistic role of climate change on crop yield potential</b>	FCSM Research & Policy Conference (FCSM)	2022
	<b>The impact of taxing sugar-sweetened beverages in México: A censored QUAI demand system</b>	Agricultural & Applied Economics Association (AAEA)	2022
		Track Session: Identification in Demand Estimations	
	<b>A model of U.S. domestic crop trade to study state's food vulnerability to supply chain disruptions</b> <sup>3</sup>	Agricultural & Applied Economics Association (AAEA)	2021
		Western Regional Science Association (WRSA)	2021
		North American Regional Science Council (NARSC)	2020
	<b>Revisiting the impact of climate change on agriculture through spatially-varying and place-tailored Ricardian estimates</b>		
		North American Regional Science Council (NARSC)	2021
		Workshop RED in Mexico: Challenges of a New Era	2018
REFERENCES	William Clifton Ridley, Ph.D.	Professor, Department of Agricultural and Consumer Economics University of Illinois Urbana-Champaign, IL wridley@illinois.edu	
	Sandy Dall'Erba, Ph.D.	Professor, Department of Agricultural and Consumer Economics University of Illinois Urbana-Champaign, IL dallerba@illinois.edu	
	Rafael Garduño-Rivera, Ph.D.	Professor, School of Economic and Administrative Sciences Universidad Panamericana, México rgardunor@up.edu.mx	
PROGRAMMING	Julia, L <sup>A</sup> T <sub>E</sub> X, Markdown, Python, R, Stan, Stata, & SQL.		

<sup>3</sup>Previously titled *Who benefits from local agriculture?*

LANGUAGES                      English & Spanish.

SERVICE AND                **Journal Refereeing**  
PROFESSIONAL              American Journal of Agricultural Economics; Economic Modelling; Discover  
ACTIVITIES                  Food;s Environmental Research Letters; Journal of Agricultural and Applied  
                                     Economics Association; Nature Food; Organisation for Economic Co-Operation  
                                     and Development (OECD); U.S. Global Change Research Program (USGCRP);  
                                     World Development.  
                                     **USDA - Economics Research Service**  
                                     Member, ERS Modeling Team Committee  
                                     Member, ERS Brownbag Series Committee  
                                     **Abstract Reviewer**  
                                     AAEE Annual Meeting, 2025.  
                                     AAEE Annual Meeting, 2024.