

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 - <i>present</i>
EDUCATION	<b>Ph.D., 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.S., 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>Welfare effects of retail food price inflation during the COVID-19 pandemic on Mexican households.</i> (Accepted for the special issue of the <b>Journal of Agriculture and Food Industrial Organization</b> on the causes and consequences of retail food price inflation) with Benjamin D.K. Wood, and Rafael Garduño-Rivera.</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 QUA 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

U.S.  
DEPARTMENT OF  
AGRICULTURE,  
ECONOMICS  
RESEARCH  
SERVICE

1. *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.
2. *Warming temperatures in U.S. Corn Belt expected to continue into next decade.*  
Charts of Note, December 5, 2023

WORKING  
PAPERS

1. *Agro-climatic patterns for the Corn Belt towards the middle of the century.*  
with Eric Njuki, Jayson Beckman, and Maros Ivanic.

<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.

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.
3. *Estimation of the factor transformation elasticities consistent with the GTAP data.*  
with Jayscon Beckman, and Maros Ivanic.
4. *Heterogenous patterns of crop yield growth stagnation across U.S. counties in the next decade*  
Solo paper.
5. *Incorporating the Land Allocation System into the GTAP framework(R&R)*  
with Kristiina Ala-Kokko, Jayson Beckman, and Maros Ivanic.
6. *Does trade openness affect global grain supply response?*  
with Yacob Zereyesus, Jennifer Kee, Stephen Morgan, Nathan Hendricks, Michael Johnson, Lila Cardell, Jeremy Jelliffe, and Walter Acpangan.
7. *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

1. *Is agricultural insurance a safety net or a net of complacency amidst adaptation to extreme weather events?*  
with Francis Tsiboe, Dylan Turner, Katherine Baldwin, and Sharon Raszap.
2. *Tracing U.S. county-to-county domestic trade flows in grains.*  
with William Ridley, Sandy Dall’Erba, Jian Zou, Youning Chen, and Christa Court.
3. *Designing policies to achieve healthy and sustainable diets*  
with Grace Melo-Guerrero.

FELLOWSHIPS,  
GRANTS AND  
SCHOLARSHIPS

- The impact of climate change on agricultural production, productivity, and trade (\$403,152) 2023
- Improving the capabilities of global trade models to analyze changes in land use/land cover and green house emissions (\$280,000) 2023
- A global agricultural supply-demand-climate-trade model calibrated to Baseline (\$375,000) 2022
- Towards a data hub of global daily weather forecasts for the ERS (**PI**) (\$30,000) 2022
- ERS’ international supply forecasting (\$30,000) 2022
- International food consumption patterns-implications for global food security and trade (\$25,000) 2022
- The Charles M. Tiebout Prize in Regional Science (\$1,000) 2021
- Cleo Fitzsimmons Award (\$500) 2020
- Agricultural and Consumer Economics Department Grant (\$400) 2019

	<ul style="list-style-type: none"> <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 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 341AMM: Issues in Agribusiness Markets and Management FA17 Instructor: Paul B Stoddard, Senior Lecturer <i>Lecture:</i> 20 students University of Illinois at Urbana-Champaign, IL Undergraduate Credit: 3 Hours.</p>
RESEARCH IN THE NEWS	<ol style="list-style-type: none"> <li>1. <i>Climate Impacts on Corn and Soybean Yields by Mid-2030s</i> in Progressive Farmer</li> <li>2. <i>“Climate change is real;” Researchers warn extreme weather events could impact Illinois agriculture</i> in WCIA.com</li> <li>3. <i>Trade Insurance</i> in Jayson Lusk, Food and Agricultural Economist, personal blog.</li> </ol>

RESEARCH ASSISTANTSHIPS	<b>Interstate Trade as Mitigating Factor for the Effects of Climate Change on Illinois Agriculture</b> 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	<b>Intern</b> Department of Agriculture, U.S., Economic Research Service Market & Trade Economics Division Agricultural Policy and Models Branch Kansas City, MO Summer 2021 <b>Intern</b> Department of Agriculture, U.S., National Agricultural Statistics Service Environmental, Economics and Demographics Washington, DC 2016 - 2017 <b>Intern</b> 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> 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 QUAID 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	

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

**Revisiting the impact of climate change on  
agriculture through spatially-varying and place-tailored  
Ricardian estimates**

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.

## LANGUAGES

English & Spanish.

SERVICE AND  
PROFESSIONAL  
ACTIVITIES

**Journal Refereeing**

American Journal of Agricultural Economics (4); Economic Modelling (1);  
Environmental Research Letters (1); Journal of Agricultural and Applied  
Economics Association (1) ; Nature Food (1); Organisation for Economic  
Co-Operation and Development (OECD) (1); U.S. Global Change Research  
Program (USGCRP) (1); World Development (1).

**USDA - Economics Research Service**

Member, ERS Diversity Equity Inclusion and Accessibility (DEIA) Council  
Member, ERS Modeling Team Committee  
Member, ERS Brownbag Series Committee

**Abstract Reviewer**

AAEA Annual Meeting, 2024.