

Michael S. Jones

Research Assistant Professor of Economics
Institute of Social and Economic Research · University of Alaska Anchorage
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Academic Employment

Research Asst. Professor, Inst. of Social and Economic Research

Aug 2022 – present

- **Major portfolio components:** Quantitative Food Security Analysis, Multi-modal Food Supply Chains, Food Waste and Post-Harvest Losses, Autonomous Aviation Integration, Agricultural Development

Term Asst. Professor, Dept. of Economics

Aug 2020 – Jul 2022

Univ. of Alaska Anchorage, Alaska, USA

Education

Ph.D. in Economics

August 2020

Concentration in Agricultural and Resource Economics
North Carolina State University, Raleigh, NC, USA

Master of Science in Agricultural Economics

May 2012

Purdue University, West Lafayette, IN, USA

Bachelor of Science in Food and Resource Economics

May 2010

Bachelor of Arts in Political Science

University of Florida, Gainesville, FL, USA

Peer Reviewed Publications

[\(Google Scholar Page\)](#)

1. **Jones, Michael** & Z. Brown. 2023. “Food for thought: Assessing the consumer welfare impacts of deploying irreversible, landscape-scale biotechnologies.” *Food Policy*, 121:102529. [\[Link\]](#)
2. Zarate, S., I. Cimadori, **M. Jones**, M.M. Roca, S.K. Barnhill-Dilling. 2023. “Assessing agricultural gene editing regulation in Latin America: an analysis of how policy windows and policy entrepreneurs shape agricultural gene editing regulatory regimes.” *Frontiers in Bioengineering and Biotechnology*, 11:1209308. [\[Link\]](#)
3. Baltzegar, J., **M. Jones**, M. Willcox, J.M. Ramsey, F. Gould. 2023. “Population genetic structure of the maize weevil, *Sitophilus zeamais*, in southern Mexico.” *PLoS One*, 18:e0264469. [\[Link\]](#)
4. Patterson, Jacquelyn, S. Pant, D. Jones, S. Taha, **M. Jones**, M. Bauserman, P. Montaldo, C. Bose, S. Thayyil. 2021. “Informed consent rates for neonatal randomized controlled trials in low- and lower-middle-income versus high-income countries: A systematic review.” *PLoS One* 16: e0248263 [\[Link\]](#)

5. Rejesus, Roderick and **M. Jones**. 2020. “Perspective: Enhancing Economic Evaluations and Impacts of Integrated Pest Management Farm Field Schools (IPM-FFS) in Low-Income Countries.” *Pest Management Science* DOI 10.1002/ps.5912 [[Link](#)]
6. **Jones, Michael**, Z. Brown, P. Mitchell, J. Delborne, J. Elsensohn. 2019. “U.S. Public Attitudes and Uncertainties about Agricultural Gene Drive Insects.” *Science Advances* 5:eaau8462 [[Link](#)]
7. **Jones, Michael**, C. Alexander, and B. Smith. 2018. “Economic Consequences of Post-Harvest Insect Damage in Rwandan Common Bean Markets”. *Crop Protection* 104: 92-100. [[Link](#)]
8. Jones, Denise, A. McRea, M. Jairath, **M. Jones**, K. Bradford, R. Jhaveri. 2017. “Prospective assessment of pill-swallowing ability in pediatric patients.” *Clinical Pediatrics* 1-7. [[Link](#)]
9. Baltzegar, J., J. Barnes, J. Elsensohn, N. Gutzmann, **M. Jones**, S. King, and J. Sudweeks. 2017. “Anticipating complexity in the deployment of gene drive insects in agriculture”. *Journal of Responsible Innovation* 1-17. [[Link](#) – equal author contribution, listed alphabetically]
10. **Jones, Michael**, C. Alexander, J. Ricker-Gilbert, N.J. Olynk-Widmar, and J. Lowenberg-DeBoer. 2016. “Do Insect and Mold Damage Affect Maize Prices in Africa? Experimental Evidence from Malawi”. *Modern Economy* 7: 1168-1185. [[Link](#)]
11. **Jones, Michael**, L. House, and Z. Gao. 2015. “Respondent Screening and Revealed Preference Axioms: Testing Quarantining Methods for Better Data Quality in Web Panel Surveys.” *Public Opinion Quarterly* 79: 687-709. [[Link](#)]
12. Ricker-Gilbert, Jacob and **M. Jones**. 2015. “Does Storage Technology Affect Adoption of Improved Maize Varieties in Africa? Insights from Malawi’s Input Subsidy Program.” *Food Policy* 50: 92-105. [[Link](#)]
13. **Jones, Michael**, C. Alexander and J. Lowenberg-DeBoer. 2014. “A Simple Methodology for Measuring Profitability of On-farm Storage Pest Management in Developing Countries.” *Journal of Stored Products Research* 58: 67-76. [[Link](#)]

Papers in review, submission, or under development

1. **Jones, Michael**, R. Rejesus, and J.M. Yorobe. “Do farmers with less education and experience realize higher yield gains from genetically modified corn in developing countries? Evidence from the Philippines” (in progress)
2. Brown, Zachary S., K. Dickinson, M. Dalaba, R. Alirigia, E. Coffey, and **M. Jones**. “The interaction of prices and peers in shaping demand for environmental health technologies: a multi-level clean cookstove experiment in Northern Ghana” (in progress)
3. **Jones, Michael**, J. Baltzegar, N. Gutzmann. “Genetically modified *Bt* crops and genetically modified insect releases: Input complements or substitutes?” (in progress)
4. **Jones, Michael**, V. Collier. “Drivers of seasonal variation in urban-remote retail price differentials for food products in Alaska, USA” (in progress)

5. **Jones, Michael**. “Key aviation infrastructure bottlenecks and food spoilage: insights and food security implications for Alaska, USA” (in progress).

Non-Peer Reviewed Working Papers, Technical Reports, and Book Chapters

1. **Jones, Michael** (with L. Ambrozevicius, M. Bagley, K. Barnhill-Dilling, I. Cimadori, T. Kuiken, J. Kuzma, M. Roca, S. Zarate). 2023. [Final report] “Assessment of the Regulatory and Institutional Frameworks for Agricultural Gene Editing via CRISPR- based Technologies in Latin America and the Caribbean”. *Interamerican Development Bank report series*. DOI: <http://dx.doi.org/10.18235/0004904> [Link]
2. Muñoz, Gonzalo and **M. Jones**. 2022. ¿Será la edición génica una alternativa de corto plazo para hacer frente a la subida de precios de alimentos? [Could gene editing be a short-term alternative to combat food price increases?] (published in Spanish). *Interamerican Development Bank discussion series on the Environment, Climate Change, and Sustainability*. [Link]
3. **Jones, Michael** (with T. Kuiken, J. Kuzma, M. Bagley, M. Roca, and L. Abrozevicius. 2021. “Preliminary Report: Gene Editing in Latin America and the Caribbean: Regional and International Regulatory Overview”. *Submitted to and approved by Interamerican Development Bank for Part 1 (of 3) deliverable set*.
4. Brown, Zachary, **M. Jones**, J. Mumford. 2019. “Economic principles and concepts in area-wide genetic pest management”. In P. Crain & D. Onstad (Eds.), *Economics of Integrated Pest Management*, CABI. [Link]
5. Gutzmann, N., J.E. Elsensohn, J.C. Barnes, J. Baltzegar, **M. Jones**, J. Sudweeks. 2017. “CRISPR-based gene drive in agriculture will face technical and governance challenges”. *EMBO reports* 18: 1479-1480. [Link]
6. **Jones, Michael** and J. Lowenberg-DeBoer. 2014. “Updating Ex-Ante Economic Analyses for Purdue Improved Crop Storage (PICS) Bags in Sub-Saharan Africa: The case of Senegal, Kenya, and Ghana.” Working Paper 14-5, Dept. of Ag. Economics, Purdue University, West Lafayette, IN, USA. [Link]
7. **Jones, Michael**, B. Smith, and E. Karekezi. 2013. “Eating Away Farmer Profits: Do Rural Rwandan Traders Discount Beans and Maize Based on Insect Damage?” *Rwandan Ministry of Agriculture Post-Harvest Task Force Report*. Kigali, Rwanda, May. [Link]
8. **Jones, Michael**, B. Smith, and E. Karekezi. 2013. “Maize Post-Harvest Practices, Revised Loss Estimates, and Training Needs.” *Rwandan Ministry of Agriculture Post-Harvest Task Force Report*. Kigali, Rwanda, May.
9. **Jones, Michael**, C. Alexander and J. Lowenberg-DeBoer. 2011. “An Initial Investigation of the Potential for PICS Hermetic Storage to Improve Maize Incomes for Rural African Small-Holders.” Working Paper 11-3, Dept. of Ag. Economics, Purdue University, West Lafayette, IN, USA. [Link]
10. **Jones, Michael**, C. Alexander, and J. Lowenberg-DeBoer. 2011. “Profitability of Hermetic Purdue Improved Crop Storage (PICS) Bags for African Common Bean Producers.” Working Paper 11-6, Dept. of Ag. Economics, Purdue University, West Lafayette, IN, USA. [Link]

11. Akroush, Samia, S. Habbab, **M. Jones**, A. Aw-Hassan. 2010. “Commodity Chain Analysis for Selected Medicinal and Aromatic Plants in the NENA region: The case of Oregano and Sage in Jordan.” Submitted through the International Center for Agricultural Research in Dry Areas (ICARDA) to IFAD for review on June 31.
12. Akhmad, Mohommad, **M. Jones**, A. Aw-Hassan. 2010. “Commodity Chain Analysis for Selected Medicinal and Aromatic Plants in the NENA region: The case of Chamomile and Basil in Egypt.” Submitted through the International Center for Agricultural Research in Dry Areas (ICARDA) to IFAD for review on June 31.

Research Funding

1. “Economic Benefits of Drones in Alaska – ISER/ACUASI” with UAF ACUASI. Funded by the State of Alaska Senate Finance Committee. (\$200,000 to ISER for AY22-23; \$300,000 for AY23-24).
2. “Assessment of the Regulatory and Institutional framework for gene-editing via CRISPR-based technologies in Latin America and the Caribbean” with Todd Kuiken, Jennifer Kuzma, and Zachary Brown. Funded by the Interamerican Development Bank, 2020. \$469,000.
3. “Assessing Public Perceptions of Gene Drives for Invasive Species and Pest Control” with Zachary Brown, Jason Delborne, and Paul Mitchell. Funded by USDA-NIFA, 2017. \$100,000.
4. “Effective Targeting and Promotion of Grain and Legume Storage Technology: An Economic Perspective”. J. William Fulbright Fellowship Research Award, Rwanda, 2012. \$24,000.
5. “Micro-finance impacts on small-scale potato producers in Huánuco, Peru”. University of Florida’s (undergraduate) ‘University Scholars Program’, 2008. \$2,500

Conference, Workshop, and Invited Seminar Presentations

1. **Jones, Michael**. 2024. “Overcoming frictions in aviation supply chains to support rural Alaskan food security”. *Invited presentation(s) to the Alaska Aviation Coordinating Council; Alaska Air Carriers Association annual meeting*.
2. **Jones, Michael**. 2023. “Food security in Alaska: Economic Issues and Infrastructure Challenges”. *Public ‘community’ talk given as part of “Economics After Hours” lecture series*.
3. **Jones, Michael**. 2023. “Socio-economic impacts of autonomous (aviation) innovations”. *Invited presentation at the Global Autonomous Systems Conference, Anchorage, Alaska, USA, Aug. 10*.
4. Kopriva, Mary, **M. Jones**, B. Watson, K. Berry. 2022. “Alaska State and Local Spending Trends and Comparisons”. Presentation to the State of Alaska Legislature - Ways and Means Committee.

5. (Jan. 2021; Aug. 2022). “*Evaluación del marco regulatorio e institucional de la edición genética en agricultura mediante tecnologías basadas en el CRISPR en América Latina y el Caribe*”. Workshop for regional agricultural biotechnology stakeholders representing agricultural and environment ministries from eleven Latin American countries. [Led meetings and co-led reports, (in Spanish)]. [Project Page](#) | [Workshop flier](#) | [Recorded presentation](#).
6. Dalaba, Maxwell, E. Coffey, Z. Brown, **M. Jones**, K.L. Dickinson. 2020. “Cleaner cooking with liquified petroleum gas (LPG) in Northern Ghana: Interdisciplinary experiment measuring willingness to pay, behavior change, and impacts on personal exposure.” *ISEE Conference Abstracts (virtual)*.
7. **Jones, Michael** and Z. Brown. 2020. “Landscape-level pest control externalities when consumer preferences are non-neutral.” *Selected paper presented to the Association of Environmental and Resource Economists annual (virtual) meeting, June 4*.
8. **Jones, Michael**. 2019. “Emerging Agricultural Technology, Next-Generation Genetic Engineering Products, and the Marketplace.” *Invited “Lunch and Learn” Talk for agribusiness Pairwise Plants, Durham, NC, USA, Sept. 19*.
9. **Jones, Michael** and Z. Brown. 2019. “Landscape-level pest control externalities when consumer preferences are non-neutral” *Selected paper prepared for the American Agricultural Economics Association Annual Meeting, Atlanta, GA, USA, Jul 21-23*.
10. **Jones, Michael**, J. Baltzegar, N. Gutzmann. 2019. “Bio-economic Modeling of Yield Effects of Genetically Modified Diamondback Moth (*Plutella Xylostella*) to Mitigate Resistance to Bt Crops.” *American Ag. Economics Association Annual Meeting, Atlanta, GA, USA, Jul. 20-21*.
11. **Jones, Michael**, G. Muñoz, E. Lima. 2019. “CRISPR & Next-Gen Ag Biotech: Challenges, Opportunities, and Constructing Regulatory Outlooks for the LAC Region.” *Internal Seminars for the Inter-American Development Bank, Division of the Environment, Rural Development, and Disaster Risk Management, Washington, D.C., USA, Apr 23 and in La Paz, Bolivia, Jul 15*.
12. **Jones, Michael**, J. Baltzegar, N. Gutzmann. 2018. “Bio-economic Modeling of Yield Effects of Genetically Modified Diamondback Moth (*Plutella Xylostella*) to Mitigate Resistance to Bt Crops.” *Poster Presentation at the Entomological Society of America Annual Meeting, Vancouver, B.C., Canada, Nov 11-14*.
13. **Jones, Michael**, Z. Brown, J. Delborne, P. Mitchell, J. Elsensohn. 2018. “Consideration of Diverse Publics and Diverse Markets in Ethical Debates of Gene Drives in Agriculture.” *Oral presentation at the Entomological Society of America Annual Meeting, Vancouver, B.C., Canada, Nov 11-14*.
14. **Jones, Michael** and Z. Brown. 2018. “Willingness-to-Pay Effects of Gene Drive Insects Use for Crop Pest Management in Diverse US Market Applications.” *Selected paper prepared for the American Agricultural Economics Association Annual Meeting, Wash., D.C., USA, Aug 5-7*.
15. **Jones, Michael**, Z. Brown, J. Delborne, P. Mitchell, J. Elsensohn. 2018. “What Does the US Public Think About Gene Drives in Agriculture? And what do they want to know?” *Invited presentation to the EPA Biotechnology Products Community of Practice Seminar Series, Durham, NC, USA, Jul 19*.

16. **Jones, Michael**, R. Rejesus, Z. Brown, J. Yorobe Jr. 2017. “Drivers of Heterogeneity in Yield Gains from GM Maize in the Philippines: Evidence from Panel Data.” *Poster prepared for the 2017 American Agricultural Economics Association Annual Meeting, Chicago, IL, USA, Jul 30-Aug 1.*
17. **Jones, Michael**, R. Rejesus, Z. Brown, J. Yorobe Jr. 2017. “Do farmers with less education and experience realize higher yield gains from GM corn in developing countries? Evidence from the Philippines.” *Selected paper prepared for the Southern Assoc. of Agricultural Economics 2017 Annual Meeting, Mobile, AL, USA, Feb 4-7.*
18. **Jones, Michael**, R. Rejesus, Z. Brown, J. Yorobe Jr. 2017. “Distribution of GM Maize Yield Effects in the Philippines: Comparing Quantile Regression Approaches.” *Selected paper prepared for the Southern Assoc. of Agricultural Economics 2017 Annual Meeting, Mobile, AL, USA. Feb 4-7.*
19. **Jones, Michael** and C. Alexander. 2016. “Measuring Post-Harvest Losses in Economic Terms.” *Invited Presentation at the International Pre-Launch Workshop of the African Post-Harvest Losses Information System (APHLIS+) Project, West Lafayette, IN, USA, 5-6 January.*
20. **Jones, Michael**, L.A. House, Z. Gao. 2015. Attribute Non-Attendance and Satisficing Behavior in Online Choice Experiments. *Presentation at the 9th International European Forum (Igls-Forum) (144th EAAE Seminar) on System Dynamics and Innovation in Food Networks, Innsbruck, Austria, 9-13 February, 2015.*
21. **Jones, Michael**, C. Alexander, B. Smith, E. Karekezi. 2015. “Economic Consequences of Post-Harvest Losses in Rural Rwandan Maize and Common Bean Markets.” *Poster Presentation at the First International Congress on Post-Harvest Losses, Rome, Italy, 4-7 October.*
22. **Jones, Michael** and C. Alexander. 2014. “Evaluating the Profitability of On-Farm Storage Pest Management in Developing Countries.” *Presentation at the 11th International Working Conference on Stored Product Protection, Chiang Mai, Thailand, 24-28 November.* [[Link](#)]
23. **Jones, Michael**, C. Alexander, B. Smith. 2014. “Market Power and Economic Consequences of Post-Harvest Losses in Rwandan Dry Bean Markets.” *Presentation at the American Agricultural Economics Association (AAEA) Conference, Minneapolis, Minnesota, USA, 27-29 July.* [[Link](#)]
24. **Jones, Michael**. 2013. “Is my storage technology profitable? An approach for analysis focusing on insect damage.” *Invited Presentation at the USAID-Catholic Relief Services International Seed Storage Conference, Bujumbura, Burundi, 15-19 April.*
25. **Jones, Michael**. 2013. “Eating Away Farmer Profits: Damage Discounts in Rwandan Rural Markets.” *Invited Presentation at the USAID-CRS International Seed Storage Conference, Bujumbura, Burundi, 15-19 April.*
26. **Jones, Michael**, C. Alexander, J. Lowenberg-DeBoer. 2012. “Measuring Profitability of On-Farm Storage Pest Management in Developing Countries: The case of PICS and maize in Africa.” *Presentation at the Purdue Improved Crop Storage (PICS) ‘Lessons Learned’ Regional Workshop, Accra, Ghana, 10-12 April.*

27. Lowenberg-DeBoer, James and **M. Jones**. 2010. “Economics of Maize Storage in Ghana: Return Possibilities for PICS Bags vs. Alternative Storage Technologies.” *Presentation at the 5th World Cowpea Conference, Saly, Senegal, 27 September – 1 October*. [[Link](#)]

Technical Working Groups and Advisory Roles

Alaska Legislative Food Strategy Task Force (Executive Committee) Mar 2023 -present

- Primary data analyst helping to craft data-drive recommendations on state investments to support conventional agriculture, wild food systems, and broader food system infrastructure
- *Committee Chair (Food Waste), Committee Member (Transportation & Infrastructure)*

‘Innovative Foods and Ingredients’ Initiative (Economics Content Expert) 2019

- Organized by the Institute on Science for Global Policy | Funded by FDA

Teaching Experience

University of Alaska Anchorage Fall 2020-present

- Principles of Microeconomics (ECON101) [F23]
 - Course Evaluation (Adjusted Avg. of ‘Excellent Teacher’ and ‘Excellent Course’)
 - In-person only lecture section: 5/5 (F23)
- Introduction to Statistics for Business and Economics (BA273)
 - Course Evaluations (Adjusted Avg. of ‘Excellent Teacher’ and ‘Excellent Course’)
 - Live lecture sections:
 - Virtual only: 3.9/5 (F20); 5/5 (S21)
 - Hybrid: 4.7/5 (F21)
 - Asynchronous sections: 4.9/5 (F20); 4.4/5 (S21); 4.4/5 (F21)
- Econometrics (ECON312)
 - Course Evaluations: (Adjusted Avg. of ‘Excellent Teacher’ and ‘Excellent Course’)
 - Live lecture sections:
 - Virtual only: 5/5 (F20); 4.4/5 (S21)
 - Hybrid: 4.8/5 (F21)

Teaching Assistant, NCSU Dept. of Ag. and Resource Economics Fall 2017-2018

- Independent instruction of upper-level ARE336, “Intro. to Environmental & Resource Econ.”
 - Course Evaluation: 4.7/5 (Dept. Avg.: 4.3)
 - Instructor Evaluation: 4.8/5 (Dept. Avg.: 4.2)
- Lab Director and/or Teaching Assistant (no student evaluations administered)
 - Ph.D. Level: ECG790, Applied Microeconometrics (Spring 2018)
 - Undergraduate Level: ARE303, Farm Management (Fall 2017)

Adjunct Lecturer, Univ. of Florida, Dept. of Food and Resource Economics Spring 2014

- Independent instruction of senior-level AEB4343, “International Agricultural Marketing”
 - Course Evaluation: 4.74/5 (Dept. Avg.: 4.04)
 - Instructor Evaluation: 4.89/5 (Dept. Avg.: 4.09)

Journal Referee Service

Food Policy; Agriculture & Food Security; Public Opinion Quarterly; Review of Agriculture, Food, & Environmental Studies; Field Methods; Polar Geography

Data Analysis Software Experience

STATA, RStudio	(very proficient; most graduate work and teaching)
Matlab	(proficient; graduate work and course-based experience)
Nlogit, LimDep	(proficient; M.S. work conducted through this program)

Language

English	(native)
Spanish	(very strong oral and written working proficiency; survey and training experience)
French	(very strong oral and written working proficiency; survey and training experience)
Italian	(limited oral and written working proficiency; mostly for fun)

Professional and Academic International Experience

Afghanistan, Bolivia, Burundi, Egypt, Greece, Japan, Jordan, Kenya, Malawi, Mexico, Peru, Rwanda, South Africa, Switzerland, Syria

Honors and Awards

UAA College of Business and Public Policy ‘Undergraduate Teacher of the Year’	2022
UAA Volleyball Team ‘Professor Appreciation’ Honoree	2021
Gerald A. Carlson Outstanding PhD Dissertation Award, NCSU Dept. Economics	2021
Keller Award for Excellence in Doctoral Dissertation, NCSU Col. of Ag & Life Science	2020
Outstanding Dissertation Award, Southern Ag. Economics Association	2020
N.C. State Graduate School Summer Fellowship Award	2019
N.C. State Department of Economics Productivity Award Fellowship	2018
N.C. State College of Agriculture and Life Sciences Student Spotlight	2017
Statewide Newsletter Profile [Link]	
National Science Foundation IGERT Fellowship	2014 – 2017
- Awarded through NC State’s Center for Genetic Engineering and Society - Three years of fellowship funding Cohort topic: Genetic Engineering of Ag. Insect Pests	
J. William Fulbright Fellowship	2012 – 2013
Republic of Rwanda; Linked with Rwandan Agriculture Board	