

Anna Josephson

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Department of Agricultural and Resource Economics
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Academic Appointments

2018- Assistant Professor, University of Arizona

Affiliations

[Affiliate Faculty Global Change Graduate Interdisciplinary Program, University of Arizona](#)
[Catalyst with Berkeley Initiative for Transparency in the Social Sciences](#)

Education

Ph.D. Agricultural Economics, Purdue University, December 2017
Dissertation Title: Household Decision Making Under Stress: Three Essays on Agricultural Production in Southern Africa

M.S. Agricultural Economics, Purdue University, December 2013
Thesis Title: How Does Population Density affect Agricultural Intensification and Productivity?: Evidence from Ethiopia

B.S. Economics and Geology, Rensselaer Polytechnic Institute, May 2011

Publications and Presentations (*authors listed alphabetically or reverse alphabetically)

Journal Articles

- [20] Michler, J., A. Josephson, T. Kilic, S. Murray. [Privacy Protection, Measurement Error, and the Linking of Remote Sensing and Socioeconomic Survey Data](#). (2022). *Journal of Development Economics* 158: 102927.
- [19] *Rudin-Rush, L., J. Michler, A. Josephson, J. Bloem. (2022). [Food Insecurity During the First Year of the COVID-19 Pandemic in Four African Countries](#). *Food Policy* 11: 102306.
- [18] Githu, D., J. Fehmi, A. Josephson. (2022). [Pastoralist herd size maintenance during drought with the use of reseeded fields near Lake Baringo, Kenya](#). *Pastoralism* 12 (21).
- [17] Hilsenroth, J., A. Josephson, K.A. Grogan, L. Walters, Z.T. Plakias, L.H. Palm-Forster, S. Banerjee, T. Wade. (2022). [Past, Present, and Future: Status of Women and Minority Faculty in Agricultural and Applied Economics](#). *Applied Economics Perspectives and Policy* 44 (1): 71-91.
- [16] Niles, M., et al. (2021). [A Multi-Site Analysis of the Prevalence of Food Security in the United States, before and during the COVID-19 Pandemic](#). (2021). *Current Developments in Nutrition* 5 (12).

- [15] *Josephson, A., T. Kilic, J. Michler. (2021). [Socioeconomic impacts of COVID-19 in low income countries](#). *Nature Human Behavior* 5: 557-565. [Also published as World Bank Working Paper WPS9466].
- [14] Josephson, A., G. Shively. (2021). [Unanticipated Events, Perceptions, and Household Labor Allocation in Zimbabwe](#). *World Development* 141: 105377.
- [13] *Dizon, F., A. Josephson, D. Raju. (2021). [Pathways to Better Nutrition in South Asia: Evidence on the Effects of Food and Agricultural Interventions](#). *Global Food Security* 28: 100467. [Also published as World Bank Working Paper 8766].
- [12] Michler, J., W. Masters, A. Josephson. (2021). [Moving Beyond the IRB: Towards A Typology of Ethics in Agricultural and Applied Economics](#). *Applied Economics Policy and Perspectives* 43 (4): 1352-1365.
- [11] Josephson, A., M. Smale. (2021). [What do you mean by ‘informed consent’? Household survey ethics in development research](#). *Applied Economics Perspectives and Policy* 43 (4): 1305-1329.
- [10] Josephson, A., J. Ricker-Gilbert. (2020). [Preferences and Crop Choice During Zimbabwe’s Macroeconomic Crisis](#). *African Journal of Agricultural and Resource Economics* 15 (3): 260-287.
- [9] Josephson A., L. DeBoer, D. Nelson, A. Zissimopoulos. (2020). [Facilitating Higher-Order Learning: Examining Student Outcomes after a Course Redesign](#). *Applied Economics Teaching Resources* 2 (1).
- [8] Zuo, N., A. Josephson, D. Scheitrum. (2019). [Engaging Students in Global Agriculture: Three Classroom Interventions](#). *North American Colleges and Teachers of Agriculture Journal* 63 (1a).
- [7] Slade, P., J. Michler, A. Josephson. (2019). [Foreign Geographical Indications, Consumer Preferences, and the Domestic Market for Cheese](#). *Applied Economics Perspectives and Policy* 41 (3): 370-390.
- [6] Josephson A., L. DeBoer, D. Nelson, A. Zissimopoulos. (2019). [Learning to Do: Facilitating Practice in a Large Introductory Macroeconomics Class](#) *Journal of Economic Education*. 50 (2): 142-156.
- [5] Josephson, A., J. Michler. (2018). [Beasts in the Field? Ethics in Agricultural and Applied Economics](#). *Food Policy* 79 (August 2018): 1-11.
- [4] Josephson, A., H. Schrank, M.I. Marshall. (2017) [Assessing preparedness of small businesses for hurricane disasters: Analysis of pre-disaster owner, business and location characteristics](#). *International Journal of Disaster Risk Reduction* 23 (August 2017): 25-35.
- [3] Michler, J.D., A. Josephson. (2017). [To Specialize or Diversify: Agricultural Diversity and Poverty Dynamics in Ethiopia](#). *World Development* 89: 214-226.
- [2] Josephson, A., M.I. Marshall. (2016). [The Demand for Post-Katrina Disaster Aid: SBA Disaster Loans and Small Businesses in Mississippi](#). *Journal of Contingencies and Crisis Management*: 24 (4): 264-274.
- [1] Josephson, A.L., J. Ricker-Gilbert, R.J.G.M. Florax. (2014). [How does population density influence agricultural intensification and productivity?: Evidence from Ethiopia](#). *Food Policy* 48 (2014): 142-152.

Books and Book Chapters

- Josephson, A., J.D. Michler. (2023). *Research Ethics in Applied Economics: A Practical Guide*. Routledge.
- Michler, J.D., A. Josephson. (2022). *Recent Developments in Inference: Practicalities for the Applied Economist*. In Hobbs, J., and Roosen, J. (Eds.); *A Modern Guide to Food Economics*. Edward Elgar Publishing. 235268.
- Furbush, A., A. Josephson, T. Kilic, J.D. Michler. (2021). [The evolving socioeconomic impacts of Covid-19 in four African countries](#). Eds.: R. Arezki, S. Djankov, U. Panizza. *Shaping Africa’s Post-COVID Recovery*. VoxEU & CEPR. [Also published as World Bank Working Paper 9556].

Policy & Working Papers and Conference Proceedings

- Dizon, F., A. Josephson, Z. Wang. [Intra-Household Inequality in Food Consumption and Diets in the Philippines](#). World Bank Policy Research Working Paper, No. 10170. World Bank, Washington, D.C.
- J. Bloem, J. Michler, A. Josephson, L. Rudin-Rush. (2022). [Food Insecurity During the First Year of the COVID-19 Pandemic in Four African Countries](#). ERS COVID-19 Working Paper AP-102.
- Michler, J.D., A. Josephson, T. Kilic, S. Murray. (2021). [Estimating the Impact of Weather on Agriculture](#). *Policy Research Working Paper*. World Bank Working Paper No. 9867. World Bank, Washington, DC.
- Niles, M.N., E.H. Belarmino, F. Bertmann, E. Biehl, F. Acciai, A. Josephson, P. Ohri-Vachaspati, R. Neff. (2020). [Food security during COVID-19: A multi-state research collaborative](#). medRxiv.
- *Belarmino, E.H., E. Biehl, A. Brunet Marks, L. Clay, U. Colón-Ramos, C. Dunn, A. Hossan, A. Josephson, R. Neff, M. Niles, R. Slotter. (2020). [Research Agenda-Setting Paper on COVID-19 and Food Insecurity](#). CONVERGE COVID-19 Working Groups for Public Health and Social Sciences Research.
- Josephson, A., E. Kee-Tui, J. Michler, S. Perez. (2019). [Dissemination and Adoption of Bundled Agronomic Practices](#). University of Arizona Cardon Research Papers in Agricultural and Resource Economics, No. 202002.
- Heady, D., M. Dereje, J. Ricker-Gilbert, A.L. Josephson, A. Seyoum Taffesse. (2013). [Land Constraints and Agricultural Intensification in Ethiopia: Village-Level Analysis of High-Potential Areas](#). ESSP Working Paper 58, International Food Policy Research Institute.
- Josephson, A.L., M.I. Marshall. (2014). [The Effectiveness of Post-Katrina Disaster Aid: The Influence of SBA Loans on Small Businesses in Mississippi](#). In Randy R. Rapp & William Harland (Eds.); *The Proceedings of the 10th International Conference of the International Institute for Infrastructure Resilience and Reconstruction (I3R2)* 20-22 May 2014. (141-145). West Lafayette, Indiana: Purdue University.

Book Reviews, Blogs, Briefs, and Extension Publications

- Wetherell, S., A. Josephson, F. Acciai, S. Martinelli, A.J. Yellow Horse, P. Ohri-Vachaspati. (2022). [One year later: The economic consequences of COVID-19 in Arizona](#). College of Health Solutions, Arizona State University
- Acciai, F., A.C. McCarthy, K. Harper, A. Josephson, E.H. Belarmino, M.T. Niles, F. Bertmann, E. Biehl, R. DeWasse, S. Martinelli, R. Neff, P. Ohri-Vachaspati. (2021). [Food insecurity and food program assistance participation in the U.S.: One year into the COVID-19 pandemic](#). College of Health Solutions, Arizona State University.
- Acciai, F., A. Josephson, S. Martinelli, A.J. Yellow Horse, T. Evans, P. Ohri-Vachaspati. (2021). [COVID-19 Pandemic One Year Later: Food Insecurity and Food Assistance in Arizona](#). College of Health Solutions, Arizona State University.
- Michler, J.D., T. Kilic, A. Josephson. (2021). [Dialing for data: The story behind documenting the early socioeconomic impacts of the pandemic in Africa](#). Nature Portfolio: Behind the Paper.
- Niles, M, et al. (2021). [Food Insecurity Prevalence Across Diverse Sites During COVID-19: A Year of Comprehensive Data](#). College of Agriculture and Life Sciences Faculty Publications. No. 178.
- Driesen, F., F. Acciai, A. Josephson, A.J. Yellow Horse, S. Martinelli, P. Ohri-Vachaspati. (2020). [Job Disruptions During the First Four Months of the COVID-19 Pandemic and Their Impacts on Food Security in Arizona](#). College of Health Solutions, Arizona State University.

- Harper, K., F. Acciai, A. Josephson, F. Bertmann, P. Ohri-Vachaspati, E.H. Belarmino, M. Niles, J. Robinson, R. Neff. (2020). [Experiences of households with new and persistent food insecurity during the first four months of the COVID-19 pandemic](#). Johns Hopkins University COVID-19 Publications.
- Acciai, F., E.H. Belarmino, A. Josephson, M.T. Niles. (2020). [Changes in Employment Status and Food Security During the COVID-19 Pandemic](#). Arizona State University Food Policy and Environment Research Group, Arizona State University.
- Acciai, F., A.J. Yellow Horse, S. Martinelli, A. Josephson, T. Evans, P. Ohri-Vachaspati. (2020). [Impacts of COVID-19 on Food Security in Arizona](#). College of Health Solutions, Arizona State University.
- Martinelli, S., F. Acciai, A.J. Yellow Horse, A. Josephson, P. Ohri-Vachaspati. (2020). [Food Assistance Program Participation among Arizona Households during the COVID-19 Pandemic](#). College of Health Solutions, Arizona State University.
- Niles, M., A. Josephson, F. Bertmann, B.H. Belarmino, R. Neff. (2020). [COVID-19 and Food Insecurity Impacts: A Follow Up Vermont Study](#). College of Agriculture and Life Sciences Faculty Publications. No. 26.
- Schrank, H. and A. Josephson. (2020). [Navigating a Crisis You Didn't Ask For](#). Purdue Institute for Family Business: COVID-19 Special Issue.
- Josephson, A. (2019). [Normalizing Failure in the Research Process: Review of *Failing in the Field: What We Can Learn When Field Research Goes Wrong* by Dean Karlan and Jacob Appel](#). *Australian Journal of Agricultural and Resource Economics* 63 (3).
- Josephson, A. (2019). [Women, Children and Households Oh My! | Four Lessons from CSAE 2019](#). *Economics that Really Matters*, April 2019.
- Schrank, H., A. Josephson, M. Marshall. (2018). [Sustainability: Some Tips on Protecting your Business from a Natural Disaster](#). *Purdue Initiative for Family Farms*, Fall 2018 Newsletter.
- Dizon, F., A. Josephson. (2018). [Five takeaways for better nutrition in South Asia and beyond](#). *End Poverty in South Asia*, The World Bank, October 2018.
- Josephson, A., M.I. Marshall. (2017). *The Family Business: Differentiation in Fairness by Leadership Type* *Purdue Agricultural Economics Report*. Purdue University, February 2017.
- Josephson, A., M.I. Marshall. (2016). *Small Business Administration Disaster Loans after Hurricane Katrina: Differences in Loan Applicants and Non-Applicants* *Purdue Agricultural Economics Report*. Purdue University, March 2016.
- Josephson, A., M. I. Marshall. (2014). *Goals of Small Rural Midwestern Businesses* *Purdue Agricultural Economics Report*. Purdue University, April 2014.

In Review

- Clay, L., N. Koyratty, S. Rogus, U. Colon-Ramos, A. Hossan, A. Josephson, R. Neff, R. Zack, M. Niles. *Disaster Food Security Scale: Phase I Framework Development, Validation and Testing*.
- Dizon, F., A. Josephson, Z. Wang. *Intra-Household Inequality in Food Consumption and Diets in the Philippines*.
- Josephson, A. [The Management of Joint Household Resources: Evidence from Malawi](#).

In Preparation

- Josephson, A., J. Michler, A. Orr. An Industrious Revolution? Changes in the Household Economy in Rural Bangladesh.
- Laborte, A., R. Datoon, M.L. Velasco, M.S. Valencia, H. Valera, C. Florey, A.C. Baradas, E. Cabrera, N.A. Averion, R. Castillo, A. Josephson, J.D. Michler. Alternative dissemination pathways for enhancing the adoption of the Rice Crop Manager (RCM) in the Philippines: Protocol for a randomized control trial.
- Kee-Tui, E., J. Michler, A. Josephson. Testing for Market Completeness Over Time in the Central Luzon provinces in the Philippines (1971-2016).
- McGreal, B., J. Michler, A. Josephson. Beyond the Border: Weather, Measurement Error, and Political Boundaries.
- Furbush, A., A. Josephson, J. Michler. Hoping or Coping? Livelihood Diversification and Household Resilience to the COVID-19 Pandemic.

Conference Presentations and Invited Talks (including scheduled, & canceled due to COVID-19)

2023: Ethics in Development Working Group (online); Agricultural and Applied Economic Association Annual Meeting (Washington DC); Western Economic Association International Conference (Melbourne, Australia); University of Sydney (Sydney, Australia)

2022: Pacific Conference for Development Economics (online); University of Sussex (online); Swiss Society for Agricultural Economics and Agricultural Sociology Annual Conference (Frick, Switzerland); Agricultural and Applied Economic Association Annual Meeting (Anaheim, CA); IFAD 2022 International Conference (Rome, Italy); Nordic Development Conference (Helsinki, Finland)

2021: Arizona Institutes for Resilience/Center for Climate Adaptation Science and Solutions & School of Geography, Development, and Environment (online); Data Development Group Online Learning Series (online); Frances McClelland Institute for Children, Youth, and Families (online); Agricultural and Applied Economic Association Annual Meeting (Austin, TX); European Association of Agricultural Economics Annual Meeting (online); International Conference of Agricultural Economists Meeting (online); Pathways to Research and Doctoral Careers (online); American Public Health Association (online); Virginia Tech (online); Arizona Institutes for Resilience (Tucson, AZ); European Association of Agricultural Economists and Agricultural and Applied Economics Association Webinar Series (online); Research on Methods and Metrics for Northwestern Global Poverty and Research Lab & Innovations for Poverty Action (online); Land and Health Association - World Soil Day (online)

2020: Feed the Future: Afrilinks (online); African Development Bank (online); Data Development Group Online Learning Series (online); Purdue University (online); University and Industry Consortium (online); Online Agricultural and Resource Economics Seminar (online); NIFA Agricultural Policy Research Group Meeting (online); Agricultural and Applied Economic Association Annual Meeting (online); [&]University of Sussex (Brighton, UK); Data Development Group, World Bank (Washington DC); Africa Table Speaker Series, University of Arizona (Tucson, AZ)

2019: Allied Social Science Annual Meeting (Atlanta, GA); Arizona State University (Phoenix, AZ); Center for the Study of African Economies Annual Meeting (Oxford, England); Women in Data Science - Tucson (Tucson, AZ); IRRRI Workshop on Improving Impact Assessment, Monitoring, and Evaluation (Rome, Italy); World Bank-SAFANSI Roundtable: High Impact and Underrepresented Nutrition Sensitive Food Systems in South Asia (Bangkok, Thailand); Agricultural and Applied Economic Association Annual Meeting (Atlanta, GA)

2018: International Conference of Agricultural Economists Meeting (Vancouver, Canada); Agricultural and Applied Economic Association Annual Meeting (Washington DC); University of Saskatchewan (Saskatoon, Canada); International Rice Congress (Singapore); World Bank-SAFANSI Roundtable: Putting the Lens on the Consumer in Nutrition-Sensitive Agriculture and Food Systems in South Asia (Colombo, Sri Lanka)

2017: American Economic Association Meeting (Chicago, IL); Center for the Study of African Economies Annual Meeting (Oxford, England); University of Arizona (Tucson, AZ); Mississippi State University (Starkville, MS); University of Florida (Gainesville, FL); Agricultural and Applied Economic Association Annual Meeting (Chicago, IL); University of Saskatchewan (Saskatoon, Canada)

2016: African Association of Agricultural Economists Meeting (Addis Ababa, Ethiopia); Agricultural and Applied Economic Association Annual Meeting (Boston, MA)

2015: International Conference of Agricultural Economists Meeting (Milan, Italy)

2014: Agricultural and Applied Economic Association Annual Meeting (Minneapolis, MN); Annual Conference of the International Institute for Infrastructure Renewal and Reconstruction (Lafayette, IN)

2013: Agricultural and Applied Economic Association Annual Meeting (Washington DC); International Food Policy Research Institute Emerging Land Constraints Meeting (Washington DC)

2012: North American Regional Science Council Regional Meeting (Ottawa, Canada); Agricultural and Applied Economic Association Annual Meeting (Seattle, WA); Spatial, Health, and Population Economics Annual Summit (West Lafayette, IN)

Grants, Fellowships, and Awards

External Grants

Natural Hazards Center "A Disaster Food Security Scale for Rural Communities"	\$47,190	Co-I	2022-2023
NIFAs Hispanic-Serving Institutions Education Grant "Equitable Agriculture and Environmental Management"	\$1,000,000	Co-PI	2022-2024
USAID Bureau of Humanitarian Assistance "Enhancing Evidence for Humanitarian Action"	\$1,000,000	Co-I	2022-2023
World Bank Research Support Budget "Understanding households resilience to and recovery from COVID-19 in Sub-Saharan Africa"	\$95,000	Co-PI	2021-2022
USDA & Tufts: 25 Years of Food Security Measurement "Developing a Disaster Food Security Scale"	\$100,000	Co-I	2021-2022
Berkeley Initiative for Transparency in the Social Sciences Catalyst Grant "Transparency, Replicability, and Reproducibility in Agricultural and Applied Economics"	\$1,680	Co-PI	2020
NSF Extreme Events Research & CONVERGE Natural Hazards Center "Working Group on COVID-19 and Food Security"	\$1,000	Member	2020
Standing Panel on Impact Assessment Grant "Impact assessment of stress-tolerant rice varieties: Evaluating impact through remote sensing and economic methods"	\$299,999	Co-I	2019-2023
AAEA Trust Grant "An Assessment of the Status of Women and Minorities in Agricultural and Applied Economics"	\$25,678	PI	2019-2020
President's SSHRC Research Fund, with University of Saskatchewan "Assessing Canadians' Willingness to Pay for local products or products with Geographic Indicators"	Can\$7,000	Co-I	2017-18
U.S. Borlaug Fellowship in Global Food Security "Sorghum Consumption and Consumer Choice in Zimbabwe"	\$30,000	Fellowship	2016-17

Internal Grants and Fellowships

UNIVERSITY OF ARIZONA

Environment & Resilience Vertically Integrated Projects	\$4,000	2022-2023
AIRES RISE Initiative ²⁴	\$44,000	2022-2023
Hispanic Serving Institution Faculty Seed Grants	\$25,000	2022-2024
Undergraduate Research Initiative: Increasing Access to Research	\$5,000	2021-2022
Arizona Institute for Resilience (AIR) Seed Grant	\$7,500	2021-2022
JumpStart Pilot Project (ASU) Seed Grant	\$17,837	2020-2021
CALS COVID-19 Pilot Project Seed Grant	\$13,275	2020-2021
Experiential Learning Design Accelerator Fellowship	\$22,000	2019
Commission on the Status of Women Faculty Affairs Committee Travel Grant	\$250	2019
Student / Faculty Interaction Grant	\$485	2018

PURDUE UNIVERSITY

D. Woods Thomas Memorial Fund Award to Support International Activities	\$1,000	2016
Jim and Neta Hicks Small Grant	\$10,000	2015-17
Andrews Environmental Travel Grant	\$500	2014

Awards

Outstanding Master's Thesis, Ag. and Applied Economics Association - Advisor - Emil Kee-Tui (2021 graduation): "Labor, Credit, and Markets: Evidence from the Philippines, 1971 - 2016" (2022)

Inclusive Leadership Cohort Certificate, University of Arizona (2019 - 2020)

Uma Lele Prize for Best Paper on Gender, International Association of Agricultural Economics (2018)

[Ross Fellowship](#), Purdue University (2013)

Robert LaFleur Award for Excellence in Environmental Geoscience, RPI (2011)

*Teaching and Professional Experience**University of Arizona*

Primary Instructor, Sustaining Life: The Global Economy of Food, University of Arizona (Fall 2018-2021; Summer 2020-2022; Spring 2023)

Primary Instructor, Microeconomics of Development, University of Arizona (Fall 2020-2021)

Primary Instructor, Consumption Economics and Price Analysis (MS); University of Arizona (Fall 2018)

Purdue University

Primary Instructor, Principles of Macroeconomics, Purdue University (Summer 2015)

Teaching Assistant, Principles of Macroeconomics, Purdue University (Fall 2014, Spring 2015)

Other

Co-Instructor, Short Course in Impact Assessment in Los Banos, the Philippines (Winter 2019)

Consultant, World Bank Group

Co-Instructor, Short Course in Impact Assessment in Penang, Malaysia (Spring 2017)

Visiting Scholar, International Crop Research Institute in the Semi-Arid Tropics (2016-2017)

Student Advising and Collaboration (*Committee Chair/Co-Chair; AREC unless noted)

Current M.Sc Students: Dewan Al Rafi*, Lorin Rudin-Rush*, Chandrakant Agme*

Current Undergraduate Students: Jacob Taylor (Business Economics), Reece Branham (Business Economics & French), Samantha Wetherell, Andrew Soderberg

2022 Undergraduate Research Interns: Tatum Bingham, Reece Branham (Business Economics & French), Maxine Cruz (Ecology & Evolutionary Biology), Rodrigo Guerra Su, Chi Nguyen (Environmental Science), Hope Njuguna (Environmental Studies), Andrew Soderberg, Jake Thomason (Information Science)

Graduated PhD Students: Julia Davies (School of Geography)

Graduated M.Sc Students: Charles Meisch, Ann Furbush*, Emil Kee-Tui*, Laura McCann, Diana Githu* (School of Natural Resources and the Environment), Stephanie Perez, Matt Leib*, Husani Newbold

Graduated Undergraduate Students: Brenda Jimenez, Frederick Driesen

Professional Service

University of Arizona Agricultural and Resource Economics Club - Faculty Advisor (2020-present)

University of Arizona University Hearing Board - Member (2020-present)

University of Arizona Spectrum of Modalities Working Group - Member (2022)

AAEA International Section Leadership - Chair (2019-2022)

AAEA Communications Committee - Member (2019-present)

AAEA Committee for Women in Agricultural Economics Section Leadership

Survey Committee Chair (2018-2021)

Social Media Manager (2017-2019)

Refereeing: *World Bank Economic Review* (1); *Journal of the Association of Environmental and Resource Economics* (1); *Review of Development Economics* (1); *Journal of the Agricultural and Applied Economics Association* (2); *Nature Human Behaviour* (1); *Agricultural Systems* (1); *Applied Economics Teaching Resources* (2); *Journal of Development Studies* (3); *Oxford Development Studies* (1); *PLOS ONE* (1); *International Journal of Disaster Risk Reduction* (1); *Journal of African Economies* (1); *American Journal of Agricultural Economics* (5); *Journal of Economic Education* (2); *European Review of Agricultural Economics* (1); *Food Policy* (7); *Development Policy Review* (1); *Land Use Policy* (1); *Agricultural Economics* (2); *African Journal of Agricultural and Resource Economics* (2); *World Development* (3); *American Entrepreneurship Journal* (1)