



WILLIAM J. BURKE, PH.D.

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MICHIGAN STATE
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I am an agricultural economist with an interest in Africa that began while serving as a Peace Corps Volunteer in The Gambia from 2001 to 2003. I earned master's and doctoral degrees from Michigan State University in 2009 and 2012 respectively. In 2010, I began a long-term overseas assignment in Lusaka, Zambia. In addition to carrying out fieldwork as a doctoral candidate, I spent providing research, outreach, and capacity-building services for the USAID and SIDA funded Food Security Research Project (now IAPRI, the Indaba Agricultural Policy Research Institute). After completing my Ph.D., I remained in Zambia as Assistant Professor of International Development until joining Stanford University's Center on Food Security and the Environment from 2012 to 2016. I then incorporated Agricultural and Food Policy Consulting, where much of my work took me to Malawi. In addition to ongoing analytical work, I spent much of my time leading efforts to design surveys, train enumerators, and supervise data collection, data entry and data cleaning, first for Africa RISING and then the MwAPATA Institute. I was MwAPATA's Acting Research Director beginning in 2020. In early 2022 I became an Associate Professor at Michigan State University's Department of Agricultural, Food, and Resource Economics, and continue my work with MwAPATA. I specialize in combining data across platforms (e.g., surveys, soil testing, weather stations, and remote sensing) to understand the adoption and impacts of farm management practices. I have taught a range of topics including agricultural economics, econometrics, survey design, and conducting surveys at The University of Zambia, IAPRI, Stanford University, and MwAPATA. My passion for excellence is perhaps best exemplified by being named an "Outstanding Reviewer" by the editors of *The American Journal of Agricultural Economics*. I am also the author of the "craggit" package in Stata, which has contributed to regularizing the estimation of hurdle models across a range of applications.

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Personal Website: <https://www.afpconsulting-burke.com/>

Education:

Ph.D. Agricultural Economics, Michigan State University (MSU), 2012

- Major Field: Agricultural Markets and Price Analysis
- Minor Fields: Econometrics and International Agricultural Development
- Dissertation: *Maize Production in Zambia and Regional Marketing: Input Productivity and Output Price Transmission*
- Committee: Thomas S. Jayne (Chair) Robert Myers, J. Roy Black, Jeff Wooldridge

M.S. Agricultural Economics, MSU, 2009

- Field: International Agricultural Development
- Thesis: *Triple Hurdle Model of Smallholder Production and Market Participation in Kenya's Dairy Sector*
- Committee: Thomas S. Jayne (Chair), Robert Myers, Lisa D. Cook

B.A. Economics, Theater (dual degree), Washington College, 2000, *Cum Laude*

- Thesis: *Economic Reforms and the Micro and Small Enterprise Sector: A Comparative Study of Ghana and Zimbabwe* (Lisa Daniels, Advisor)
- Second Thesis: "Oleanna" – Director (Tim Maloney, Advisor)

Awards and Honors

2020/21 – Author of a “Top Cited Article” in *Agricultural Economics*.

2020 – Named a member of the Editorial Board for the *African Journal of Agricultural and Resource Economics*

2019 – “Outstanding Reviewer” for *The American Journal of Agricultural Economics*

2017/18 – Author of a “Top Cited Article” in *Agricultural Economics*.

2017 – Voted onto the Food Tank Board of Directors.

2017 – Bruce Gardner Memorial Prize for Applied Policy Analysis, awarded by the Agricultural and Applied Economics Association for “outstanding impact on agricultural and related policy, based on sound foundations in economic theory.”

2015 – Invited guest of the Cargill Africa Learning Program, a selected group of producers, manufacturers, retailers, researchers, journalists, and leaders brought together to examine the complexity and diversity of Africa’s agricultural systems.

2013 – Horizon Ribbon Award, Washington College, recognizing “a graduate of the last 15 years who is already leaving a mark through leadership, service, or scholarship.”

2009 – Best Journal Article, awarded by the board of editors of *Agricultural Economics* for the article titled “Do Input Subsidy Programs ‘Crowd in’ or ‘Crowd out’ Commercial Market Development? Modeling Fertilizer Demand in a Two-Channel Marketing System.”

2009 – Best Master's Thesis, awarded by the Department of AFR Economics, Michigan State University, for the thesis titled “Triple Hurdle Model of Smallholder Production and Market Participation in Kenya’s Dairy Sector.”

2000 – Stewart Drama Award as the Director of David Mamet’s *Oleanna*.

Academic Employment and Experience

Associate Professor, Agricultural, Food, and Resource Economics, MSU, 3/2022 - Present

President and Research Consultant, Agricultural and Food Policy Consulting, 9/2016–2/2022.

Research Scholar, Center on Food Security and the Environment, Stanford, 9/2012–8/2016.

Assistant Professor, International Development, MSU, 1/2012–9/2012.

Research Specialist, Food Security Research Project, Lusaka, Zambia, 2/2010–1/2012.

Graduate Research Assistant, MSU, 8/2004–1/2010.

Related Employment and Experience

Volunteer Training Advisor, U.S. Peace Corps, Banjul, The Gambia. 2003.

U.S. Peace Corps Volunteer, Sami Madina, The Gambia. 2001–2003.

Publications and Research

Peer-reviewed journal articles, book chapters and major reports

Mwakiwa, E., W.J. Burke, M. Muyanga, V. Theriault and D. Tschirley. Forthcoming. *African Fertilizer and Soil Health Issues in the Context of Multiple Shocks: Lessons from Ghana, Kenya, Nigeria, Senegal,*

Tanzania and Zimbabwe. ANAPRI Report under the Innovation Lab for Food Security Policy Research, Capacity and Influence, Lusaka.

Ricker-Gilbert, J., M. Mallory, O. Ogunbayo, O. Akano, J. Goeb, W.J. Burke, T.S. Jayne, et al. 2024. *Causes and Consequences of the 2021/22 Fertilizer Price Spike on sub-Saharan Africa. Lessons Learned and Implications for Future Action*. Sustain Africa Report, September 4, 2024.

Burke, W.J., S.N. Morgan, T. Namonje, M. Muyanga, N.M. Mason. 2023. Beyond the “Inverse Relationship”: Area mismeasurement may affect actual productivity, not just how we understand it. *Agricultural Economics* 54, 557–569.

Burke, W.J., S.S. Snapp, B. Peter, and T.S. Jayne. 2022. Sustainable Intensification in Jeopardy: Transdisciplinary Evidence from Malawi. *Science of the Total Environment* 837 (1 September 2022) 155758.

Khonje, M.G., C. Nyondo, J.H. Mangisoni, J. Ricker-Gilbert, W.J. Burke W. Chadza and M. Muyanga. 2022. Does Subsidizing Legume Seeds Improve Farm Productivity and Nutrition in Malawi? *Food Policy* 113, 102308.

Khonje, M.G., C. Nyondo, L. Chilora, J.H. Mangisoni, J. Ricker-Gilbert and W.J. Burke. 2022. Exploring Adoption Effects of Subsidies and Soil Fertility Management in Malawi. *Journal of Agricultural Economics* 73(3) 874-892.

Burke, W.J., T.S. Jayne and S.S. Snapp. 2022. Nitrogen Efficiency by Soil Quality and Management Regimes on Malawi Farms: Can Fertilizer Use Remain Profitable? *World Development* 152, 105792.

Khonje, M., M. Fregene, A. Toda and W.J. Burke. 2021. The Codependence Between Nutrition, Resilience and Sustainable Food Systems. In Jayne, T.S., L. Traub, K. Urama, L. Fox and J. Njuguna, (eds), *The 2021 Annual Agricultural Sector Review*. Alliance for a Green Revolution in Africa. Lilongwe.

Sakala, I.C., T.H. Kalinda, C. Knonde and W.J. Burke. 2021. “Adoption of Ox-drawn Minimum Tillage Ripping by Smallholder Farmers in Zambia.” *Agrekon* 60(3): 335-351.

Burke, W.J. and T.S. Jayne. 2021. “Disparate access to quality land and fertilizers explain Malawi’s gender yield gap.” *Food Policy* 100, 102002.

Burke, W.J., S.S. Snapp and T.S. Jayne. 2020. “An in-depth examination of maize yield response to fertilizer in Central Malawi reveals low profits and too many weeds.” *Agricultural Economics* 51(6): 923-940.

Burke, W.J., T.S. Jayne and N.J. Sitko. 2020. “Do Medium-scale Farms Improve Market Access Conditions for Zambian Smallholders?” *Journal of Agricultural Economics* 71(2): 517-533.

Burke, W.J., E. Frossard, S. Kabwe and T.S. Jayne. 2019. “Understanding fertilizer effectiveness and adoption on maize in Zambia.” *Food Policy* 86: 101721.

Burke, W.J. 2019. “Evidence Against Imposing Restrictions on Hurdle Models as a Test for Simultaneous vs. Sequential Decision Making.” *The American Journal of Agricultural Economics* 101(5): 1473-1481.

Burke, W.J., S. Li and D. Banda. 2018. “Female Access to Fertile Land and Other Inputs in Zambia: Why Women Get Lower Yields.” *Agriculture and Human Values* 35: 761–775.

Jayne, T.S., N.M. Mason, W.J. Burke and J. Ariga. 2018. “Taking Stock of Africa's Second-Generation Agricultural Input Subsidy Programs.” *Food Policy* 75: 1–14.

Sitko, N.J., W.J. Burke and T.S. Jayne. 2018. “The Quiet Rise of Large-Scale Trading Firms in East and Southern Africa.” *Journal of Development Studies* 54 (5) 895–914.

Burke, W.J., T.S. Jayne and J.R. Black 2017 “Factors Explaining the Low and Variable Profitability of Fertilizer Application to Maize in Zambia.” *Agricultural Economics* 48 (1): 115–126.

Burke, W.J., R.J. Myers and T.S. Jayne. 2015. “A Triple-Hurdle Model of Production and Market Participation in Kenya’s Dairy Market.” *The American Journal of Agricultural Economics* 97 (4): 1227–1246.

Burke, W.J. and R.J. Myers. 2014. “Spatial Equilibrium and Price Transmission Between Southern African Maize Markets Connected by Informal Trade.” *Food Policy* 49: 59–70.

Burke, W.J. and T.S. Jayne. 2013. “Smallholder Land Ownership in Kenya: Distribution Between Households and Through Time.” *Agricultural Economics* 45: 185–198.

Muyanga, M., T.S. Jayne and W.J. Burke. 2013. “Pathways Into and Out of Poverty: A Study of Determinants of Rural Household Wealth Dynamics in Kenya.” *Journal of Development Studies* 49(10): 1358–1374.

Xu, Z., W.J. Burke, T.S. Jayne and J. Govereh. 2009. “Do Input Subsidy Programs ‘Crowd in’ or ‘Crowd out’ Commercial Market Development? Modeling Fertilizer Demand in a Two-Channel Marketing System.” *Agricultural Economics* 40(1): 79–94.

Burke, W. J. 2009. “Fitting and Interpreting Cragg’s Tobit Alternative Using Stata.” *Stata Journal* 9(4): 584–592.

Reviewed papers with invitations to revise and resubmit

Burke, W.J., M. Muyanga and M. Munthali. *Under Revision*. Policy implications of escalating tropical cyclone threats to Malawi amidst rising Indian Ocean temperatures. *Environmental Research Communications*.

Nyondo, C.J., J. Minofu, J. Goeb, W.J. Burke, D. Kambewa, R. Chikowo and S. Snapp. *Under Revision*. The impact of site-specific soil-test-based extension advice on farm management in Malawi. *Food Policy*.

Background papers written for the following books

Bertini, R., V. Cistulli, A. Croppenstedt, E. Galvez Nogales, T. McMenemy, A. Sahihhin, J. Skot and G. Thomas. 2017. *The State of Food and Agriculture: Leveraging food systems for inclusive rural transformation*. Food and Agriculture Organization of the United Nations, Rome, Italy.

Goyal, A. and J. Nash. 2017. *Reaping Richer Returns: Public spending priorities for African agriculture productivity growth*. The World Bank Group, Washington, D.C.

Working Papers

Burke, W.J., M. Muyanga and M. Munthali. 2024. “Policy Implications of Escalating Tropical Cyclone Threats to Malawi Amidst Rising Indian Ocean Temperatures.” MwAPATA Institute Working Paper 24/06, Lilongwe.

Gondwe, A., L.K. Chilora, L. Chiwaula and W.J. Burke. 2024. “Drivers of Agricultural Growth in Malawi”. MwAPATA Institute Working Paper 24/03, Lilongwe.

Trusters, W., G. Heinrich, L. Pearson, L. Chiwaula and W.J. Burke. 2024. “The Economic and Social Cost of Land and Soil Degradation in Malawi.” MwAPATA Institute Policy Brief No. 29, Lilongwe.

Gondwe, A., D.T. Salonga, J. Goeb and W.J. Burke. 2024. “Traders’ and Smallholder Farmers’ Knowledge, Attitudes, and Practices Towards Groundnut Aflatoxin Contamination in Central Malawi.” MwAPATA Institute Working Paper 24/02, Lilongwe.

- Munthali, M.G., L. Chilora, M. Goliath, W.J. Burke, M.E. Benbow, J. Kang’ombe and A. Safalaoh. 2023. “The Economic Cost-benefit Analysis of Black Soldier Fly as an Alternative Animal and Fish Feed Ingredient in Malawi.” MwAPATA Institute Working Paper 23/01, Lilongwe.
- Nyondo, C., Z. Nyirenda, M. Muyanga and W.J. Burke. 2023. “Global fertiliser price volatility – approaches to reduce vulnerability among countries in the Global South.” *Rural 21: The International Journal of Rural Development*, 57 (2) 24-26.
- Gondwe, A., B. Nankwenya, T.S. Jayne, W.J. Burke, M. Muyanga, W. Chadza and L. Chiwaula. 2022. “The Potential for Mega-Farms to Transform Malawian Agriculture.” MwAPATA Institute Working Paper 22/01, Lilongwe.
- Chadza, W., W.J. Burke, Thom S. Jayne and M. Muyanga. 2022. “How Russia’s Invasion of Ukraine Will Affect the Food Security Situation in Malawi: Implications for Malawian Policy Response.” MwAPATA Institute Policy Brief No. 18, Lilongwe.
- Nyondo, C., W.J. Burke, M. Muyanga, and W. Chadza. 2022. “Redesigning the Affordable Inputs Program to Diversify and Sustain Growth.” MwAPATA Institute Policy Brief No. 14, Lilongwe.
- Burke, W.J., S.S. Snapp, B. Peter and T.S. Jayne. 2021. “Sustainable Intensification in Jeopardy: Transdisciplinary Evidence from Malawi”. MwAPATA Institute Working Paper 21/07, Lilongwe.
- Nyondo, C., Z.B. Nyirenda, T. Sentala, M. Muyanga, S. Mkumbwa and W.J. Burke. 2021. “The 2020/21 Affordable Inputs Program: Key Implementation Issues and Messages.” MwAPATA Institute Policy Brief No. 12, Lilongwe.
- Nyondo, C., Z.B. Nyirenda, W.J. Burke and M. Muyanga. 2021. “The Inorganic Fertilizer Price Surge in 2021: Key Drivers and Policy Options.” MwAPATA Institute Policy Brief No. 11, Lilongwe.
- Khonje, M., C. Nyondo, L. Chilora, J.H. Mangisoni, J. Ricker-Gilbert, W.J. Burke, W. Chadza and M. Muyanga. 2021 “Does Subsidizing Legume Seeds Improve Farm Productivity and Nutrition in Malawi?” MwAPATA Institute Working Paper 21/06, Lilongwe.
- Khonje, M., C. Nyondo, L. Chilora, J.H. Mangisoni, J. Ricker-Gilbert and W.J. Burke. 2021 “Exploring Adoption Effects of Subsidies and Soil Fertility Management in Malawi.” MwAPATA Institute Policy Brief No. 8, Lilongwe.
- Nyondo, C., M. Khonje, J. Mangisoni, W.J. Burke, J. Ricker-Gilbert and L. Chilora. 2021 “Lessons Learnt: Promises, Achievements, Shortcomings and Pitfalls of Inputs Subsidy Programs in Malawi.” MwAPATA Institute Working Paper 21/05, Lilongwe.
- Chadza, W., W.J. Burke, C. Nyondo, M. Khonje, M. Munthali, *et al.* 2020. “An Early Assessment of the Impact of COVID-19 in Malawi.” MwAPATA Institute Working Paper 20/05, Lilongwe.
- Muyanga, M., Z. Nyirenda, Y. Lifeyo and W.J. Burke. 2020. “The Future of Smallholder Farming in Malawi.” MwAPATA Institute Working Paper 20/03, Lilongwe.
- Chadza, W., M. Muyanga, W.J. Burke and C. Nyondo. 2020. “Impact of COVID-19 on Agri-food Systems in Malawi: Farm Level Analysis.” MwAPATA Institute Working Paper 20/02, Lilongwe.
- Mangani, R., T.S. Jayne, P. Hazell, M. Muyanga, S. Chimatiro, W.J. Burke and M. Johnson. 2020. “Agricultural Transformation in Malawi: Call to Action.” MwAPATA Institute Working Paper 20/01, Lilongwe.
- Burke, W.J., S. Morgan, T. Namonje, M. Muyanga and N.M. Mason. 2019. “Beyond the 'Inverse Relationship': Area Mismeasurement Affects Actual Productivity, Not Just How We Understand It.” *Feed the Future Innovation Lab for Food Security Policy Research Paper 159*, East Lansing: Michigan State University.

- Burke, W.J., S. Morgan, T. Namonje, M. Muyanga and N.M. Mason. 2019. "Area Mismeasurement Impact on Farmers' Input Choices and Productivity." Feed the Future Innovation Lab for Food Security Policy Research Brief 106, East Lansing: Michigan State University.
- Sitko, N.J., W.J. Burke & T.S. Jayne. 2017. "Food System Transformation and Market Evolutions: An Analysis of the Rise of Large-scale Grain Trading in Sub-Saharan Africa." Feed the Future Innovation Lab for Food Security Policy Research Paper 48, East Lansing: Michigan State University.
- Burke, W.J., E. Frossard, S. Kabwe and T.S. Jayne. 2016. "Understanding fertilizer effectiveness and adoption on maize in Zambia". International Development Working Paper 147, East Lansing: Michigan State University.
- Jayne, T.S., N. Mason, W.J. Burke and J. Ariga. 2016. "Agricultural Input Subsidy Programs in Africa: An Assessment of Recent Evidence". International Development Working Paper 145, East Lansing: Michigan State University.
- Lubungu, M., W.J. Burke and N.J. Sitko. 2014. "Analysis of the Sunflower Value Chain in Zambia's Eastern Province." Indaba Agricultural Policy Research Institute Working Paper No. 85. Lusaka, Zambia.
- Lubungu, M., W.J. Burke and N.J. Sitko. 2013. "Challenges of Smallholder Soybean Production and Commercialization in Eastern Province of Zambia." Indaba Agricultural Policy Research Institute Policy Brief No. 62. Lusaka, Zambia.
- Lubungu, M., W.J. Burke and N.J. Sitko. 2013. "Analysis of the Soya Bean Value Chain in Zambia's Eastern Province." Indaba Agricultural Policy Research Institute Working Paper No. 74. Lusaka, Zambia.
- Burke, W.J., T.S. Jayne and J.R. Black. 2012. "Getting More 'Bang for the Buck': Diversifying Subsidies Beyond Fertilizer and Policies Beyond Subsidies." FSRP Policy Synthesis No. 52. Lusaka, Zambia.
- Burke, W.J., T.S. Jayne and N.J. Sitko. 2012. "Can the FISP More Effectively Achieve Food Production and Poverty Reduction Goals?" FSRP Policy Synthesis No. 51. Lusaka, Zambia.
- Jayne, T.S., N. Mason, W.J. Burke A. Shipekesa, A. Chapoto and C. Kabaghe. 2011. "Mountains of Maize, Persistent Poverty." FSRP Policy Synthesis No. 48. Lusaka, Zambia.
- Mason, N., W.J. Burke, A. Shipekesa and T.S. Jayne. 2011. "The 2011 Surplus in Smallholder Maize Production in Zambia: Drivers, Beneficiaries and Implications for Agricultural and Poverty Reduction Policies." FSRP Working Paper 58. Lusaka, Zambia.
- Burke, W.J., M. Hichaambwa, D. Banda and T.S. Jayne. 2011. "The Cost of Producing Maize for Smallholders in Rural Zambia." FSRP Working Paper 50. Lusaka, Zambia.
- Kuteya, A., S. Kabwe, M. Beaver, A. Chapoto, W.J. Burke, *et al.* 2011. "Statistical Report on Categorization of Rural Cropping Households in Zambia." FSRP Working Paper 51, Lusaka, Zambia.
- Burke, W.J., T.S. Jayne, and A. Chapoto. 2010. "Factors Contributing to Zambia's 2010 Maize Bumper Harvest." FSRP Working Paper 48, Lusaka, Zambia.
- Muyanga, M., T.S. Jayne, and W.J. Burke. 2010. "Pathways Into and Out of Poverty: A Study of Rural Household Wealth Dynamics in Kenya." Tegemeo Institute of Agricultural Policy and Development Working Paper WPS 39/2010, Egerton University, Nairobi.
- Burke, W.J., and T.S. Jayne. 2008. "Spatial Disadvantages or Spatial Poverty Traps: Household Evidence from Rural Kenya." International Development Working Paper 93, Department of AFR Economics, Michigan State University (MSU) (also published in 2010 as Overseas Development Institute (ODI) Working Paper 327, Chronic Poverty Research Center).
- Burke, W.J., T.S. Jayne, P. Kristjanson, and H.A. Freeman. 2007. "Factors Associated with Farm Households' Movements Into and Out of Poverty in Kenya: The Rising Importance of Livestock."

International Development Working Paper 90, Department of AFR Economics, MSU (also published as an ODI conference paper).

Media

Elnashar, A. 2022. “Nationwide Labor Shortage Adding to Inflationary Pressure”. *Sinclair Media* National Desk interview

Spencer, A. 2018. “William Burke—Food Tank’s Newest Board Member.” *Food Tank* interview, June.

Jayne, T.S. and W.J. Burke. 2017. “New Opportunities and New Challenges for African Farmers in a Fast-Changing Market.” *F@rmLetters* Issue 64, June, pages 1–4.

Burke, W.J. 2017 “Africa Needs Better Farm Policy—Not Better Farmers” *Food Tank* op-ed, July.

Burke, W.J., T.S. Jayne and C. Kabaghe. 2011. “Getting More out of Farmer Input Support.” *Zambia Analysis*, December/January, pages 18–21.

Jayne, T.S., N. Mason, W.J. Burke and A. Shipekesa, A. Chapoto and C. Kabaghe. 2011. “Mountains of Maize, Persistent Poverty.” *Zambia Analysis*, November, pages 22–25.

Grant Activities

Country-Led Evidence and Research for Agricultural Policy through MwAPATA (CLEAR4AP-MwAPATA): Lead PI on a 5-year, \$5 million grant from USAID to supplement funding to support the growth and development of the MwAPATA Institute in Malawi.

The MwAPATA Project, Phase II: Co-PI on a 2.5-year, up to \$4.525 million grant of continued funding for the grant that established the MwAPATA Institute, a Malawian think tank on agricultural policy issues. This portion of the funding is provided by the Global Action to End Smoking (né Foundation for a Smoke-Free World) via the Agricultural Transformation Initiative.

The MwAPATA Project: Co-PI on the one-year, \$1.35 million grant of continued funding for the grant that was used to establish the MwAPATA Institute, a Malawian think tank on agricultural policy issues. This portion of the funding is provided by the Foundation for a Smoke-Free World via the Agricultural Transformation Initiative. It is expected that this will lead to an additional 2-year grant to begin in 2023.

USAID/Malawi Buy-In to the Food Security Innovation Lab for Policy, Research, Capacity and Influence (PRCI): Lead PI on a \$1 million “buy-in” grant to the Innovation Lab at MSU, which is used to support the activities of the MwAPATA Institute in Malawi.

Understanding Fertilizer Effectiveness and Adoption: Lead researcher for a roughly \$150,000 grant to FSE, Stanford with funding from the Bill and Melinda Gates Foundation. The project focused on studying the determinants of yield response to fertilizers in Zambia.

Helping to Build a Global Education Network: FSE, Stanford project with funding from the Bill and Melinda Gates Foundation. Grant funded guest lectures on food security at universities in Ethiopia, Zambia, Malawi, South Africa, Uganda and other countries, focusing on educational materials generated through the related seminar series that was hosted by FSE between 2011 and 2013.

Guiding Investments in Sustainable Agricultural Markets in Africa: Bill and Melinda Gates Foundation grant to Michigan State University’s Department of Agricultural, Food, and Resource Economics. This project was a partnership with several African organizations including the Common Market for Eastern and Southern Africa (COMESA), the University of Malawi, University of Zambia, Tegemeo Institute of Egerton University/Kenya, the University of Pretoria, and the Permanent Committee for Interstate Drought Control in the Sahel (CILSS). The focus countries of the project include Kenya, Malawi, Mali,

Mozambique, and Zambia. Personal responsibilities included research, outreach, and management of the local funds account in Zambia (approximately \$200,000/year)

Teaching Experience

Field Survey Data Collection and Analysis, Spring 2013–2016: Graduate seminar for students at the Emmett Interdisciplinary Program in Environment and Resources, Stanford University.

Issues in Agricultural and Applied Economics (Co-instructor with Nicole Mason), Fall 2011: Graduate course in Agricultural Economics and Extension, University of Zambia.

Quantitative Analysis Capacity Building Series (Co-instructor with Nicole Mason), 2011–2013: Seminar series for research staff at the Indaba Agricultural Policy Research Institute, Lusaka.

Affiliations

Agricultural and Applied Economics Association; International Association of Agricultural Economists; Agricultural Economics Society.

Referee Services

Agricultural Economics; Agriculture and Human Values; African Journal of Agricultural and Resource Economics; Agrikon; The American Journal of Agricultural Economics; Ecological Economics; Empirical Economics; Environmental Modeling & Software; Food Policy; Food Security; Fulbright Senior Award; Geoderma; International Food Policy Research Institute Publications Review Committee; Journal of African Economies; Journal of Agricultural Economics; Journal of Agricultural and Applied Economics; Journal of Development Studies; Journal of Environmental Management; Journal of the Agricultural and Applied Economics Association; World Development.

Analytical Software Skills

Extensive experience with Google Earth Pro; Microsoft Office; ODK; QGIS; Stata; and SPSS. Experienced with Google Earth Engine; ArcGIS; LimDep; Python; and Mathematica

Languages (spoken & written)

English (native); Mandinka (proficient)