

WILLIAM J. BURKE, PH.D. 1915 Bank St. Baltimore, MD 21231



Now an agricultural economist with a focus on Africa, my career began with 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 early 2010, I returned to Africa to begin a long-term overseas assignment in Lusaka, Zambia. In addition to carrying out fieldwork as a doctoral candidate, my time in Zambia was spent providing research, outreach, and capacity-building services for the USAID and SIDA funded Food Security Research Project (now called 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 September 2012 to September 2016. I then incorporated Agricultural and Food Policy Consulting, where my work was primarily focused in Malawi. In addition to ongoing analytical work, I spent much of my time as a consultant 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 have also been MwAPATA's Acting Research Director since mid-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 from across platforms (e.g., surveys, laboratory soil testing, weather stations, and remote sensing) to understand the adoption and impacts of farm management practices. I have also been privileged by the opportunities I have had to teach a range of topics including agricultural economics, econometrics, survey design, and conducting surveys in developing countries at The University of Zambia, IAPRI, Stanford University, and MwAPATA. My passion for helping others improve their work 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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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 - Named an "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

<u>Peer-reviewed book chapters and journal articles</u>

Burke, W.J., S.N. Morgan, T. Namonje, M. Muyanga, N.M. Mason. Forthcoming. Beyond the "Inverse Relationship": Area mismeasurement may affect actual productivity, not just how we understand it. *Agricultural Economics*.

- 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.

Background papers written for the following books

Bertini, R., V. Cistulli, A. Croppenstedt, E. Galvez Nogales, T. McMenomy, 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.

Reports and working papers

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.

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

The MwAPATA Project: I am 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): This is a \$1 million "buy-in" to the Innovation Lab at MSU, which is used to support the activities of the MwAPATA Institute in Malawi. I am the leader of this activity under PRCI.

Understanding Fertilizer Effectiveness and Adoption: FSE, Stanford project with funding from the Bill and Melinda Gates Foundation under Guiding Investments for Sustainable Agricultural Intensification in Africa, Michigan State University. I was lead researcher for this project.

Helping to Build a Global Education Network: FSE, Stanford project with funding from the Bill and Melinda Gates Foundation. Under this grant, I traveled to several African universities during the fall of 2013 to present and discuss the 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.

Professional Outreach

Guest lectures, panels, and invited seminars

- "Measuring Profitability of Input Use." Keynote presentation at the 2021 CIMMYT virtual conference, "Acid Soils in Sub-Saharan Africa: Impacts and Management Alternatives." June 16th, 2021.
- "Measuring and Evaluating the Profitability of Fertilizer Use in Malawi." Michigan State University Candidate Virtual Seminar. April 1, 2021.
- "Agricultural Subsidy Reform for People, Prosperity, Nature and Climate." Invited workshop participant hosted by the Food and Land Use Coalition, the World Bank, and the International Food Policy Research Institute. At the Meridian Institute, April 12, 2019. Washington, D.C.
- "Recent Changes in African Agriculture: Drivers, Obstacles and Outcomes." Invited panel hosted by DAI at the SEEP Annual Conference "Collaboration for Impact." October 1–3, 2018. Arlington, VA.
- "Our Food What's Next?" Invited panel at the Kerrygold Ballymaloe Literary Festival. May 20–22, 2016. Co. Cork, Ireland.
- "Uncommon Collaborations" Invited panel discussant at the Food Tank Summit. April 20, 2016. Washington D.C.
- "Constraints to Smallholder Productivity Growth in Zambia (and Africa)" Invited presentation made during Cargill's 2015 Africa Learning Journey, Chipata, Zambia. June 24, 2015.
- "Urbanization: What it means (and doesn't mean) for rural Africa." Invited presentation to the DuPont Advisory Committee on Agricultural Innovation and Productivity for the 21st Century; Organized by the Daeschel Group, Washington D.C., March 12, 2015.

"Agronomy and the Economy: Using soil analysis to understand fertilizer use and effectiveness on smallholder farms in Zambia," Invited Seminar at the Africa Studies Center, Michigan State University. January 22, 2015.

"Promoting inputs in Africa: Zambia's cautionary tale," Invited seminar at the University of California, San Diego's Economics Department and the School of International Relations and Pacific Studies. December 9, 2014.

"The New Global South? Business, Politics, and Culture in a Changing South-South Environment," Conference panelist for the discussion on "Food, Water and Security." The Lauder institute, University of Pennsylvania, Philadelphia, October 2014.

"Issues in African Agriculture" Stanford University. Guest lecturer for the class titled "Feeding 9 Billion" (David Lobell, instructor) November 2013 & 2014.

"Helping to Build a Global Education Network" Guest lectures to sharing educational material developed by Stanford University's Center on Food Security and the Environment, throughout 2013.

- Addis Ababa University, Ethiopia
- Bunda College, Malawi
- Indaba Agricultural Policy Research Institute, Zambia
- Makerere University, Uganda
- University of Kwazulu-Natal, South Africa

"Crowding In and Crowding Out: Commercial Response When Input Subsidies Create a Dual Market." Invited seminar, Stanford University, Program for Food Security and the Environment, Palo Alto, California. May 2011.

"Factors Associated with Farm Households' Movement Into and Out of Poverty in Kenya: The Rising Importance of Livestock." Invited seminar:

- Hope College, Department of Economics, Holland, Michigan. March 2007.
- Alma College, Department of Economics, Alma, Michigan. January 2007.

<u>Select Presentations</u> (* denotes presenters)

Nyondo, C*., Z.B. Nyirenda, W.J. Burke and M. Muyanga."The Inorganic Fertilizer Price Surge in 2021: Key Drivers and Policy Options." Roundtable Discussion on the Inorganic Price Surge in 2021. Capital Hotel, Lilongwe, September 16th, 2021.

Burke, W.J.* and T.S. Jayne. "Tanzanian Trade Policy Impacts on Adoption of Integrated Soil Fertility Management and Maize Production." Presentation at the Sixth Annual Agricultural Policy Conference, Dodoma, Tanzania. February 12-14, 2020.

Burke, W.J.*, S.Snapp and T.S. Jayne. "Explaining Yield Differences Between Male and Female Managed Fields in Malawi." Presentation at the Agricultural and Applied Economics Association Annual Meeting, Atlanta, GA. July 21-23, 2019.

Burke, W.J.*, T.S. Jayne and N.J. Sitko. "Do Medium-scale Farms Improve Market Access Conditions for Zambian Smallholders?" Presentation at the 30th International Conference of Agricultural Economists, Vancouver, Canada. July 28–August 2, 2018.

N.M. Mason*, T.S. Jayne, W.J. Burke and J. Ariga. "Taking Stock of Africa's Second-generation Input Subsidy Programs: Insights from 70+ Empirical Studies." Brown Bag Seminar at the Indaba Agricultural Policy Research Institute, Lusaka, Zambia, February 27, 2018.

- N.M. Mason*, T.S. Jayne, W.J. Burke and J. Ariga. "Taking Stock of Africa's Second-generation Input Subsidy Programs: Insights from 70+ Empirical Studies." IFDC Workshop called "Developing Private Sector Agro-Input Markets: Lessons Learned and Emerging Perspectives on Subsidy Programs." Jinja, Uganda, February 20, 2018.
- Burke, W.J.*, J. Messina, S. Snapp, et al. "Tracking and Promoting Sustainable Intensification Practices in Malawi." Presentation at the 2018 Sustainable Intensification Innovation Lab Annual Meeting, Himawari Hotel, Pnohm Phen, Cambodia. January 8, 2018.
- Jayne, T.S.*, N. Mason, W.J. Burke and J. Ariga. "Agricultural Input Subsidy Programs in Africa: A Review of Recent Evidence." Guest lecture at Princeton University, Tim Searchinger Sustainable Food Systems Course Princeton, NJ, November 13, 2017
- Burke, W.J.*, "Threshold Modeling." Presentation at the Sustainable Intensification Innovation Lab Meeting on Indicators for the Sustainable Intensification of Agriculture, Kellogg Center, Michigan State University, East Lansing, MI. December 14, 2016.
- Burke, W.J.* and S. Li. "Female Access to Fertile Land in Zambia: Better Understanding the Yield Gap." Presentation at the 2016 meeting of the Agricultural and Applied Economics Association, Boston, Massachusetts. August 2, 2016.
- Burke, W.J.*, E. Frossard, S. Kabwe and T.S. Jayne. "Soil Management and Crop Response to Fertilizer Use in Sub-Saharan Africa: Methodological & Policy Issues and Example from Zambia." Presentation made at the International Conference of Agricultural Economists, Milan, Italy. August 12, 2015.
- Snapp, S.*, R. Chikowo and W.J. Burke. "Measuring the Sustainability of Intensified Maize-Legume Systems in Southern Africa." Presentation made at the American Association for the Advancement of Sciences 2015 Annual Meeting, San Jose, CA. February 13, 2015.
- Burke, W.J.*, T.S. Jayne, J.R. Black and N.J. Sitko. "Constraints on FISP as a Poverty Reduction Strategy." Presentation made at the Agricultural Cooperating Partners Meeting, FAO Headquarters, Lusaka, Zambia. February 21, 2012.
- Jayne, T.S.*, W.J. Burke, A. Shipakesa, A. Chapoto and N. Mason. "Zambia's Maize Policy Challenges: Issues and Options for CAADP." Presentation at the ACF-FSRP-MACO Conference on Managing Maize Bumper Harvests and Food Policy Challenges, Sandy's Creation Lodge, Lusaka, Zambia. August 16, 2011.
- Burke, W.J.* and T.S. Jayne. "Econometric Models of Market Participation." Prepared for the ACTESA/COMESA training workshop on "Smallholder-led Commercialization and Poverty Reduction: How to Achieve It," Kigali, Rwanda. April 18–20, 2011.
- Jayne, T.S.* and W.J. Burke. "Agricultural Commercialization within a Structural Transformation Framework." Prepared for the ACTESA/COMESA training workshop on "Smallholder-led Commercialization and Poverty Reduction: How to Achieve It," Kigali, Rwanda. April 18–20, 2011.
- Burke, W.J.*, M. Hichaambwa, D. Banda* and T.S. Jayne. "Rural Zambian Smallholders' Cost of Maize Production." Presentation to the Zambian Ministry of Finance and National Planning, Lusaka, Zambia. February 17, 2011.
- Nkonde, C., N. Mason, N. Sitko, W.J. Burke, M. Hichambwa, and T.S. Jayne.* "Lessons from Zambia's 2010 Maize Marketing Experience." Presentation at the Government of Zambia's Cooperating Partners Macro Economic Group, Swedish Embassy, Lusaka, Zambia. February 9, 2011.
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- Presentation to the Permanent Secretary of Agriculture and Ministry Directors, Mulungushi House, Lusaka, Zambia. June 28, 2010.
- Presentation to Cooperating Partners at Agricultural Consultative Forum (ACF), ACF Conference Hall, Lusaka, Zambia. July 1, 2010.
- Presentation to Agricultural Stakeholders, Taj Pamodzi Hotel, Lusaka, Zambia. July 14, 2010.
- Presentation to the Economics Association of Zambia, Taj Pamodzi Hotel, Lusaka, Zambia. September 23, 2010.

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Economics; Journal of Development Studies; Journal of Environmental Management; Journal of the Agricultural and Applied Economics Association; World Development.

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