

JAMES THURLOW

International Food Policy Research Institute
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BACKGROUND

James Thurlow is a development economist whose research focuses on the interactions between policies and economic growth, poverty and inequality, primarily using computable general equilibrium and micro-simulation modeling. Past research focuses on evaluating the returns to public investments and policies; rural and regional development strategies; and climate change and energy policy. He has worked throughout Africa and in Bangladesh, Pakistan, Peru and Vietnam.

WORK EXPERIENCE AND MAJOR RESEARCH PROJECTS

- Sep 2013 to Present **Senior Research Fellow, International Food Policy Research Institute, Washington D.C.**
- Economic growth and structural transformation in Africa (CGIAR-PIM; USAID)
 - Investments in agriculture and energy infrastructure in Africa and South Asia (USAID; African Union)
 - Youth employment in agriculture in Africa and Asia (CGIAR-PIM)
- Jul 2010 to Aug 2013 **Research Fellow, United Nations University, World Institute for Development Economics Research**
- Prospects for Africa's youth
 - Development under climate change in Africa and South-East Asia
 - Long-run energy investments in Southern Africa
 - Technical Support Team to the United Nations Working Group on Sustainable Development Goals
 - IPCC AR5 Review Editor (WGII Ch. 16: Adaptation Opportunities, Constraints, and Limits)
- Jan 2009 to Jun 2010 **Associate Research Fellow, Department of Economics, University of Copenhagen**
- Climate change and adaptation in Mozambique and Tanzania (World Bank)
 - Consequences of the financial crisis for poverty in Vietnam (DANIDA)
 - Poverty measurement and evolution in Mozambique (DANIDA)
- Dec 2007 to Jun 2010 **Research Fellow, International Food Policy Research Institute, Washington D.C.**
- Climate change and water policy in Bangladesh, South Africa and Zambia (World Bank)
 - Extreme weather events in Malawi (World Bank)
 - Biofuels, growth and poverty reduction in Mozambique and Tanzania (SIDA; FAO)
 - World commodity price shocks, poverty and food insecurity in Mozambique (SIDA)
 - Policies for lagging regions in Ethiopia, Peru and Uganda (IADB; World Bank)
 - Informal sector employment policies in South Africa (HSRC: Pretoria)
- Dec 2005 to Nov 2007 **Post-Doctoral Research Fellow, International Food Policy Research Institute, Washington D.C.**
- Agricultural investments, growth and poverty reduction in Ethiopia, Ghana, Kenya, Malawi, Mozambique, Uganda and Zambia (USAID; NEPAD-CAADP; SIDA)
 - Role of agriculture in pro-poor growth in Sub-Saharan Africa (World Bank)
 - Macroeconomic impacts of HIV/AIDS in Botswana and South Africa (UNAIDS; UNDP)
- May 2002 to Nov 2005 **Research Analyst, International Food Policy Research Institute, Washington D.C.**
- Development of IFPRI's standard recursive dynamic CGE model
 - Cash transfer programs and poverty impacts in South Africa (DANIDA; GTZ)
 - Resource booms and public investment options in Zambia (World Bank)

- Oct 2001 to **Visiting Researcher, Department of Agricultural Economics, Purdue University**
 Dec 2001 - Cross entropy estimation of social accounting matrices for South Africa
- Jan 1999 to **Lecturer, Department of Economics, University of Natal, South Africa**
 Apr 2002 - Undergraduate economics; undergraduate quantitative methods (statistics)

EDUCATION AND ACADEMIC AWARDS

- Jul 2000 to **Ph.D. in Economics, University of Natal, South Africa**
 Dec 2005 Dissertation: "Trade Liberalization and Poverty in South Africa: A Computable General Equilibrium and Microsimulation Analysis of Past and Potential Trade Policies"
 - Chancellor's Award for Doctoral Studies in the Human Sciences, University of Natal
 - Doctoral Scholarship, L'Institut de Recherche pour le Developpement (IRD), France
 - Doctoral Scholarship, Deutscher Akademischer Austauschdienst (DAAD), Germany
- Jan 1999 to **M.Sc. in Economics (cum laude), University of Natal, South Africa**
 June 2000 Thesis: "Measuring Poverty, Inequality and Human Development in Durban, South Africa"
 - Centre for Science Development Scholarship research grant, Human Sciences Research Council
 - Faculty Graduate Award, University of Natal
- Jan 1995 to **B.Sc. (honors) in Economics and Computer Science (cum laude), University of Natal, South Africa**
 Dec 1998 Thesis: "An Econometric Assessment of the Causes of the Asian Crisis"

PUBLICATIONS

Peer-reviewed journal articles

1. "A Sequential Approach to Integrated Energy Modeling in South Africa", with C. Arndt, R. Davies, S Gabriel, K Makrelov, B Merven and F Salie. *Applied Energy*, forthcoming. DOI: doi:10.1016/j.apenergy.2015.06.053
2. "The Economywide Impacts and Risks of Malawi's Farm Input Subsidy Program", with C. Arndt and K. Pauw. *American Journal of Agricultural Economics*, 2015. doi: 10.1093/ajae/aav048
3. "Producing Biofuels in Low-Income Countries: An Integrated Climate and Economic Assessment for Tanzania", with G. Branca, E. Felix, I. Maltsoylou and L.E. Rincón. *Environmental and Resource Economics*, 2015. DOI: 10.1007/s10640-014-9863-z
4. "Climate and Southern Africa's Water-Energy-Food Nexus", with D. Conway, T. Osborn, S. Dorling, D. Deryng, K. Lebek, E. Van Garderen, W. Landman, C. Ringler, T. Zhu and B. Lanford. *Nature Climate Change* 5(9), 2015: 837-846.
5. "Matching Concepts with Measurement: Who Belongs to Africa's Middle Class?", with D. Resnick and D. Ubogu. *Journal of International Development* 27(5), 2015: 588-608.
6. "Prioritizing Rural Investments in Africa: A Hybrid Evaluation Approach Applied to Uganda", with K. Pauw. *European Journal of Development Research* 27(3), 2015: 407-424.
7. "Climate Uncertainty and Economic Development: Evaluating the Case of Mozambique to 2050", with C. Arndt. *Climatic Change* 130(1), 2015: 63-75.
8. "Implications of Climate Change for Ghana's Economy", with C. Arndt and F. Asante. *Sustainability* 7(6), 2015: 7214-7231.
9. "The Economic Costs of Climate Change: A Multi-Sector Impact Assessment for Vietnam", with C. Arndt and F. Tarp. *Sustainability* 7(4), 2015: 4131-4145.

10. "Can Cities or Towns Drive African Development? Economy-wide Analysis for Ethiopia and Uganda", with P. Dorosh. ***World Development*** 63(10), 2014: 113-123.
11. "Climate Change and Economic Growth Prospects for Malawi: An Uncertainty Approach", with C. Arndt, A. Schlosser and K. Strzepek. ***Journal of African Economies*** 23(S2), 2014: 83-107.
12. "Introducing Carbon Taxes in South Africa", with T. Alton, C. Arndt, R. Davies, F. Hartley, K. Makrelov and D. Ubogu. ***Applied Energy*** 116(1), 2014: 344-354.
13. "Measuring the Carbon Intensity of the South African Economy", with C. Arndt, R. Davies and K. Makrelov. ***South African Journal of Economics*** 81(3), 2013: 393-415.
14. "Agriculture and Small Towns in Africa", with P. Dorosh. ***Agricultural Economics*** 44, 2013: 435-445.
15. "Biofuels and Economic Development: A Computable General Equilibrium Analysis for Tanzania", with C. Arndt and K. Pauw. ***Energy Economics*** 34(6), 2012: 1922-1930.
16. "Poverty Reduction and Economic Structure: Comparative Path Analysis for Mozambique and Vietnam", with C. Arndt, A. Garcia and F. Tarp. ***Review of Income and Wealth*** 58(4), 2012: 742-763.
17. "Explaining Poverty Evolution: The Case of Mozambique" with C. Arndt, M.A. Hussain, E.S. Jones, V. Nhate and F. Tarp. ***American Journal of Agricultural Economics*** 94(4), 2012: 854-872.
18. "The Political Economy of Green Growth: Cases from Southern Africa", with D. Resnick and F. Tarp. ***Public Administration and Development*** 32(3), 2012: 215-228.
19. "Economic Development under Climate Change", with C. Arndt, P. Chinowsky, S. Robinson, K. Strzepek and F. Tarp. ***Review of Development Economics*** 16(3), 2012: 369-377.
20. "A Stochastic Simulation Approach to Estimating the Economic Impacts of Climate Change in Bangladesh", with P. Dorosh and W. Yu. ***Review of Development Economics*** 16(3), 2012: 412-428.
21. "Climate Change, Agriculture and Food Security in Tanzania," with C. Arndt, W. Farmer and K. Strzepek. ***Review of Development Economics*** 16(3), 2012: 378-393.
22. "Climate Change and Infrastructure Investment in Developing Countries: The Case of Mozambique," with C. Arndt, P. Chinowsky and K. Strzepek. ***Review of Development Economics*** 16(3), 2012: 463-475.
23. "Current Climate Variability and Future Climate Change: Estimated Growth and Poverty Impacts for Zambia", with X. Diao and T. Zhu. ***Review of Development Economics*** 16(3), 2012: 394-411.
24. "Agglomeration, Growth and Regional Equity: An Analysis of Agriculture- versus Urban-led Development in Uganda," with P. Dorosh. ***Journal of African Economies*** 21(1), 2012: 94-123.
25. "Agricultural Growth, Poverty, and Nutrition in Tanzania" with K. Pauw. ***Food Policy*** 36(6), 2011: 795-804.
26. "Consequences of Avian Flu for Growth and Poverty: A CGE Analysis for Kenya," ***African Development Review*** 23(3), 2011: 276-288.
27. "The Impact of the Global Commodity and Financial Crises on Poverty in Vietnam," with F. Tarp, S. McCoy, N.M. Hai, C. Breisinger and C. Arndt. ***Journal of Globalization and Development*** 2(1), 2011: 1-29.
28. "Gender Implications of Biofuels Expansion in Africa: The Case of Mozambique," with C. Arndt and R. Benfica. ***World Development*** 39(9), 2011: 1649-1662.
29. "The Economic Costs of Extreme Weather Events: A Hydro-Meteorological CGE Analysis for Malawi," with K. Pauw, M. Bachu and D.E. van Seventer, ***Environment and Development Economics*** 16(2), 2011: 177-198.
30. "Adapting to Climate Change: An Integrated Biophysical and Economic Analysis for Mozambique," with C. Arndt, K. Strzepek, F. Tarp, C. Fant and L. Wright, ***Sustainability Science*** 6(1), 2011: 7-20.
31. "Macro-Micro Feedback Links of Water Management in South Africa: CGE Analyses of Selected Policy Regimes," with R. Hassan, ***Agricultural Economics*** 42(2), 2011: 235-247.

32. "Are Biofuels Good for Economic Development? An Analytical Framework with Evidence from Mozambique and Tanzania," with C. Arndt and S. Msangi, *Biofuels* 2(2), 2011: 221-234.
33. "Impacts of a Green Revolution in Africa - The Case of Ghana," with C. Breisinger, X. Diao, and R.M. Al-Hassan, *Journal of International Development* 23(1), 2011: 82-102.
34. "Biofuels, Growth and Poverty: A Computable General Equilibrium Analysis for Mozambique," with C. Arndt, R. Benfica, F. Tarp and R. Uaiene, *Environment and Development Economics* 15(1), 2010: 81-105.
35. "Formal-Informal Sector Linkages and Unemployment in South Africa," with R. Davies, *South African Journal of Economics* 78(4), 2010: 437-459.
36. "The Role of Agriculture in African Development," with X. Diao and P. Hazell, *World Development* 38(10), 2010: 1375-1383.
37. "Modeling Growth Options and Structural Change to Reach Middle Income Country Status: The Case of Ghana," with C. Breisinger and X. Diao, *Economic Modeling* 26(2), 2009: 514-525.
38. "HIV/AIDS, Growth and Poverty in KwaZulu-Natal and South Africa: An Integrated Survey, Demographic Analysis, and Economywide Model," with G. George and J. Gow, *Journal of the International AIDS Society* 12(1), 2009: 1-13.
39. "Higher Fuel and Food Prices: Impacts and Responses for Mozambique," with C. Arndt, R. Benfica, N. Maximiano and A. Nucifora, *Agricultural Economics* 39, 2008: 497-511.
40. "Economic and Household-Level Impact of HIV/AIDS in Botswana," with K. Jefferis, A. Kinghorn and H. Siphambe, *AIDS* 22, 2008: 113-119.
41. "Trade Liberalization and Pro-Poor Growth in South Africa," *Studies in Economics and Econometrics* 3(2), 2007: 161-179.
42. "Not All Growth is Equally Good for the Poor: The Case of Zambia," with P. Wobst, *Journal of African Economies* 15(4), 2006: 603-625.
43. "The Impact of the EU-SA FTA on Selected COMESA Countries," with M. Holden, *South African Journal of Economics* 73(3), 2002: 133-144.

Books

1. *African Youth and the Persistence of Marginalization: Employment, Politics, and Prospects for Change*, with D. Resnick (eds.). New York, NY USA: Routledge. 2015. ISBN13: 978-1-13882-947-3
2. *Strategies and Priorities for African Agriculture: Economywide Perspectives from Country Studies*, with X. Diao, S. Benin and S. Fan (eds.). Washington DC, USA: IFPRI. 2012. ISBN: 978-0-89629-195-9
3. *A New Era of Transformation in Ghana: Lessons from the Past and Scenarios for the Future*, with C. Breisinger, X. Diao, R. Al-Hassan and S. Kolavalli. Washington DC, USA: IFPRI. 2011. ISBN: 978-0-89629-788-3
4. *Climate Change Risks and Food Security in Bangladesh*, with W. Yu, M. Alam, A. Hassan, A.S. Khan, A. Ruane, C. Rosenzweig and D.C. Major. London, UK: EarthScan. 2010. ISBN: 978-1-84971-130-2
5. *Social Accounting Matrices and Multiplier Analysis: An Introduction with Exercises*, with C. Breisinger and M. Thomas. Washington DC, USA: IFPRI. 2009. ISBN 978-0-89629-783-8
6. *The Role of Agriculture in Pro-Poor Growth in Sub-Saharan Africa*, with X. Diao, P. Hazell and D. Resnick. Washington DC, USA: IFPRI. 2007. ISBN 978-0-89629-161-4

Book chapters

1. "Agriculture, Poverty and the Rural Non-Farm Economy: Economy-wide Analysis for Pakistan", with P. Dorosh. In D. Spielman, S. Malik, P. Dorosh and N. Ahmad. *Agriculture and the Rural Economy in Pakistan: Issues, Outlooks, and Policy Priorities*. Washington, DC USA: IFPRI. Forthcoming.

2. "African Youth at a Crossroads," with D. Resnick. In D. Resnick and J. Thurlow (eds.). ***African Youth and the Persistence of Marginalization***. New York, NY USA: Routledge. 2015.
3. "Youth Employment Prospects in Africa". In D. Resnick and J. Thurlow (eds.). ***African Youth and the Persistence of Marginalization***. New York, NY USA: Routledge. 2015.
4. "Implications of Accelerated Agricultural Growth on Household Incomes and Poverty in Ethiopia: A General Equilibrium Analysis," with P. Dorosh. In Dorosh, P. and S. Rashid (eds.) ***Food and Agriculture in Ethiopia: Progress and Policy Challenges***. Philadelphia PA, USA: University of Pennsylvania Press. 2013.
5. "The Political Economy of Green Growth: Food, Fuel and Electricity in Southern Africa," with D. Resnick and F. Tarp. In Puppim de Oliveira, J.A. ***Green Economy and Good Governance for Sustainable Development: Opportunities, Promises and Concerns***. Tokyo, Japan: United Nations University Press. 2012.
6. "The Role of Agricultural Growth in Reducing Poverty and Hunger: The Case of Tanzania," with K. Pauw. In Fan, S. and R. Pandya-Lorch. ***Reshaping Agriculture for Nutrition and Health***. Washington DC, USA: IFPRI. 2012.
7. "African Agriculture and Development", with J. Brzeska, X. Diao and S. Fan. ***Strategies and Priorities for African Agriculture: Economywide Perspectives from Country Studies***. In Diao X., J. Thurlow, S. Benin and S. Fan (eds.). Washington DC, USA: IFPRI. 2012. ISBN: 978-0-89629-195-9
8. "A Recursive Dynamic Computable General Equilibrium Model", with X. Diao. ***Strategies and Priorities for African Agriculture: Economywide Perspectives from Country Studies***. In Diao X., J. Thurlow, S. Benin and S. Fan (eds.). Washington DC, USA: IFPRI. 2012. ISBN: 978-0-89629-195-9
9. "Kenya", with J. Kiringai and M. Gautam. ***Strategies and Priorities for African Agriculture: Economywide Perspectives from Country Studies***. In Diao X., J. Thurlow, S. Benin and S. Fan (eds.). Washington DC, USA: IFPRI. 2012. ISBN: 978-0-89629-195-9
10. "Ethiopia", with X. Diao, A.S. Taffesse, P. Dorosh, A. Nin-Pratt and B. Yu. ***Strategies and Priorities for African Agriculture: Economywide Perspectives from Country Studies***. In Diao X., J. Thurlow, S. Benin and S. Fan (eds.). Washington DC, USA: IFPRI. 2012. ISBN: 978-0-89629-195-9
11. "Ghana", with C. Breisinger, X. Diao, S. Benin and S. Kolavalli. ***Strategies and Priorities for African Agriculture: Economywide Perspectives from Country Studies***. In Diao X., J. Thurlow, S. Benin and S. Fan (eds.). Washington DC, USA: IFPRI. 2012. ISBN: 978-0-89629-195-9
12. "Malawi", with S. Benin, X. Diao, C. McCool and F. Simtowe. ***Strategies and Priorities for African Agriculture: Economywide Perspectives from Country Studies***. In Diao X., J. Thurlow, S. Benin and S. Fan (eds.). Washington DC, USA: IFPRI. 2012. ISBN: 978-0-89629-195-9
13. "Uganda", with S. Benin, X. Diao, A. Kebba and N. Ofwono. ***Strategies and Priorities for African Agriculture: Economywide Perspectives from Country Studies***. In Diao X., J. Thurlow, S. Benin and S. Fan (eds.). Washington DC, USA: IFPRI. 2012. ISBN: 978-0-89629-195-9
14. "Zambia", with S. Benin, X. Diao, H. Kalinda and T. Kalinda. ***Strategies and Priorities for African Agriculture: Economywide Perspectives from Country Studies***. In Diao X., J. Thurlow, S. Benin and S. Fan (eds.). Washington DC, USA: IFPRI. 2012. ISBN: 978-0-89629-195-9
15. "Mozambique". ***Strategies and Priorities for African Agriculture: Economywide Perspectives from Country Studies***. In Diao X., J. Thurlow, S. Benin and S. Fan (eds.). Washington DC, USA: IFPRI. 2012. ISBN: 978-0-89629-195-9
16. "Tanzania", with K. Pauw. ***Strategies and Priorities for African Agriculture: Economywide Perspectives from Country Studies***. In Diao X., J. Thurlow, S. Benin and S. Fan (eds.). Washington DC, USA: IFPRI. 2012. ISBN: 978-0-89629-195-9
17. "Lessons Learned and Remaining Challenges", with X. Diao. ***Strategies and Priorities for African Agriculture: Economywide Perspectives from Country Studies***. In Diao X., J. Thurlow, S. Benin and S. Fan (eds.). Washington DC, USA: IFPRI. 2012. ISBN: 978-0-89629-195-9

18. "Removing Agricultural Distortions: Implications for Mozambique", with C. Arndt. In K. Anderson, J. Cockburn and W. Martin (eds) *Agricultural Price Distortions, Inequality and Poverty*. Washington DC, USA: The World Bank. 2010: 303-329.
19. "Agricultural Distortions, Poverty and Inequality in South Africa", with N. Hérault. In K. Anderson, J. Cockburn and W. Martin (eds) *Agricultural Price Distortions, Inequality and Poverty*. Washington DC, USA: The World Bank. 2010: 331-356
20. "Documentation of Social Accounting Matrix (SAM) Development" with C. McCool and C. Arndt. In C. Arndt and F. Tarp (eds.) *Taxation in a Low-Income Economy: the Case of Mozambique*. New York NY, USA: Routledge. 2009.
21. "Development Strategies, Macroeconomic Policies, and the Agricultural Sector in Zambia" with D. Resnick. In P. Pinstrup-Andersen and F. Cheng (eds.) *Food Policy for Developing Countries: The Role of Government in the Global Food System*. New York NY, USA: Cornell University Press. 2009.
22. "The Role of Agriculture in Pro-Poor Growth: Lessons from Zambia", with P. Wobst. In M. Grimm, S. Klasen and A. McKay (eds) *The Analytical Foundations of Pro-Poor Growth: Evidence from Country Cases*. London, UK: Palgrave. 2006.
23. "Globalization and the Location of Industry: Can Trade Liberalization Change What's Wrong with Durban?" In A. Bouillon, B. Freund, D. Hindson and B. Lootvoet (eds) *Governance, Urban Dynamics and Economic Development: A Comparative Analysis of the Metropolitan Areas of Durban, Abidjan and Marseilles*. Durban, South Africa: Plumblin. 2002.

Journal articles and book chapters under review

1. "Beyond Agriculture Versus Non-Agriculture: Decomposing Growth-Poverty Linkages in Five African Countries", P. Dorosh.
2. "The Economy-wide effects of Teff, Wheat, and Maize Production Increases in Ethiopia: Results of Economy-wide Modeling", with T. Benson and E. Engida.
3. "The Political Economy of Zambia's Recovery: Structural Change without Transformation", with D. Resnick.
4. "Leveling the Field for Biofuels: Comparing the Economic and Environmental Impacts of Biofuel and Other Export Crops in Malawi", with F. Schuenemann and M. Zeller.
5. "The Economic Value of Seasonal Forecasts: Stochastic Economy-Wide Analysis for East Africa", with J. Rodrigues, W. Landman, C. Ringler, R. Robertson and T. Zhu.
6. "Climate Change and Developing Country Interests: Cases from the Zambezi River Basin", with C. Arndt, P. Chinowsky, C. Fant, Y. Gebretsadik, J. Neumann, S. Paltsev, C.A. Schlosser, K. Strzepek and F. Tarp.

Conference proceedings and research reports

1. "Economy-Wide Implications of Energy Build Plans: A Linked Modeling Approach" with C. Arndt, R. Davies, K. Makrelov, B. Merven and F. Saaïqa. *Energy Procedia* 61, 2014: 2862-2866.
2. *Modeling the Economic Impacts of Climate Change in South Africa*, with C. Arndt, J. Cullis, A. Schlosser, K. Strzepek et al. Helsinki, Finland: UNU-WIDER. 2014.
3. *Implications of Climate change for Economic Growth and Development in Vietnam to 2050*, with C. Arndt, P. Chinowsky, K. Strzepek and F. Tarp. Hanoi, Vietnam: Central Institute for Economic Management, 2012.
4. *Economics of Adaptation to Climate Change: Mozambique*, with K. Strzepek, C. Arndt, P. Chinowsky, A. Kuriakose, J. Neumann, R. Nicholls and L. Wright. Washington DC, USA: The World Bank. 2010.
5. "Implications of Accelerated Agricultural Growth on Poverty in Ethiopia: A Computable General Equilibrium Analysis" with P. Dorosh, *Proceedings of the Seventh International Conference on the Ethiopian Economy*, Ethiopian Economics Association. 2010.

6. ***Agriculture and Achieving the Millennium Development Goals***, with M. Rosegrant, C. Ringler, T. Benson, X. Diao, D. Resnick, M. Torero and D. Orden. Washington DC, USA: The World Bank. 2005.
7. "Prospects for Growth and Poverty-Reduction in Zambia, 2001-2015", with H. Lofgren and S. Robinson in World Bank. ***Zambia: Country Economic Memorandum***, Washington DC. 2004.

Working papers

1. "Beyond Agriculture Versus Nonagriculture: Decomposing sectoral growth–poverty linkages in five African countries", with P. Dorosh. Discussion Paper 1391, IFPRI, Washington D.C. 2014.
2. "An Integrated Approach to Modelling Energy Policy in South Africa: Evaluating Carbon Taxes and Electricity Import Restrictions ", with A. Arndt, R. Davies, S Gabriel, K Makrelov, B Merven and F Salie. Working Paper 2013-135, UNU-WIDER, Helsinki, Finland. 2014.
3. "The Economy-wide effects of Teff, Wheat, and Maize Production Increases in Ethiopia: Results of Economy-wide Modeling", with T. Benson and E. Engida. Discussion Paper 1366, IFPRI, Washington D.C. 2014.
4. "The Political Economy of Zambia's Recovery: Structural Change without Transformation?" with D. Resnick. Discussion Paper 1320, IFPRI, Washington D.C. 2014.
5. "Implications of Climate Change for Ghana's Economy", with C. Arndt and F. Asante. Working Paper 2014-020, UNU-WIDER, Helsinki, Finland. 2014.
6. "Producing Biofuels in Low-Income Countries: An Integrated Climate and Economic Assessment for Tanzania", with G. Branca, E. Felix, I. Maltoglou and L.E. Rincón. Working Paper 2014-018, UNU-WIDER, Helsinki, Finland. 2014.
7. "Climate Change and Economic Growth Prospects for Malawi", with C. Arndt, A. Schlosser and K. Strzepek. Working Paper 2014-13, UNU-WIDER, Helsinki, Finland. 2013.
8. "Prioritizing Rural Investments in Africa: A Hybrid Evaluation Approach Applied to Uganda", with K. Pauw. Working Paper 2013-60, UNU-WIDER, Helsinki, Finland. 2013.
9. "Climate Uncertainty and Economic Development: Evaluating the Case of Mozambique to 2050," with C. Arndt. Working Paper 2013-42, UNU-WIDER, Helsinki, Finland. 2013.
10. "The (Declining) Role of Households in Sustaining China's Economy: Structural Path Analysis for 1997-2007", with L. Yang and M.L. Lahr. Working Paper 2012-83, UNU-WIDER, Helsinki, Finland. 2012.
11. "The Economic Costs of Climate Change: A Multi-Sector Impact Assessment for Vietnam," with C. Arndt and F. Tarp. Working Paper 2012-82, UNU-WIDER, Helsinki, Finland. 2012.
12. "Climate Change, Agriculture and Food Security in Tanzania," with Channing Arndt, William Farmer and Kenneth Strzepek. Policy Research Working Paper 6188, World Bank, Washington D.C. 2012.
13. "Can Cities or Towns Drive African Development? Economy-wide Analysis for Ethiopia and Uganda," with P. Dorosh. Working Paper 2012-50, UNU-WIDER, Helsinki, Finland. 2012.
14. "The Economic Implications of Introducing Carbon Taxes in South Africa," with T. Alton, C. Arndt, R. Davies, F. Hartley, K. Makrelov and D. Ubogu. Working Paper 2012-46, UNU-WIDER, Helsinki, Finland. 2012.
15. "Climate Change and Infrastructure Investment in Developing Countries: The Case of Mozambique," with C. Arndt, P. Chinowsky and K. Strzepek, Working Paper 2011-92, UNU-WIDER, Helsinki, Finland. 2011.
16. "A Stochastic Simulation Approach to Estimating the Economic Impacts of Climate Change in Bangladesh," with P. Dorosh and W. Yu, Working Paper 2011-86, UNU-WIDER, Helsinki, Finland. 2011.
17. "Current Climate Variability and Future Climate Change: Estimated Growth and Poverty Impacts for Zambia," with X. Diao and T. Zhu, Working Paper 2011-85, UNU-WIDER, Helsinki, Finland. 2011.
18. "Climate Change, Agriculture and Food Security in Tanzania," with C. Arndt, W. Farmer and K. Strzepek, Working Paper 2011-52, UNU-WIDER, Helsinki, Finland. 2011.

19. "Measuring the Carbon Content of the South African Economy," with C. Arndt, R. Davies and K. Makrelov, Working Paper 2011-45, UNU-WIDER, Helsinki, Finland. 2011.
20. "Explaining Poverty Evolution: The Case of Mozambique," with C. Arndt & M.A. Hussain & E.S. Jones & V. Nhate and F. Tarp, Working Paper 2011-17, UNU-WIDER, Helsinki, Finland. 2011.
21. "Droughts and floods in Malawi," with K. Pauw and D.E.S. van Seventer, Discussion paper 962, IFPRI, Washington D.C. 2010.
22. "Biofuels and economic development in Tanzania," with C. Arndt and K. Pauw. Discussion paper 966, IFPRI, Washington D.C. 2010.
23. "Gender Implications of Biofuels Expansion: A CGE Analysis for Mozambique," with C. Arndt and R. Benfica, Working Paper 2010-111, UNU-WIDER, Helsinki, Finland. 2010.
24. "The Impact of the Global Commodity and Financial Crises on Poverty in Vietnam," with F. Tarp, S. McCoy, N.M Hai, C. Breisinger and C. Arndt, Working Papers 2010-98, UNU-WIDER, Helsinki, Finland. 2010.
25. "Adapting to Climate Change An Integrated Biophysical and Economic Assessment for Mozambique," with C. Arndt, K. Strzepeck, F. Tarp, C. Fant and L. Wright, Working Paper 2010-101, UNU-WIDER, Helsinki, Finland. 2010.
26. "Poverty Reduction and Economic Structure Comparative Path Analysis for Mozambique and Vietnam," with C. Arndt, A. Garcia and F. Tarp. Working Paper 2010-122, UNU-WIDER, Helsinki, Finland. 2010.
27. "Are Biofuels Good for African Development? An Analytical Framework with Evidence from Mozambique and Tanzania," with C. Arndt and S. Msangi, Working Paper 2010-110, UNU-WIDER, Helsinki, Finland. 2010.
28. "Implications of avian flu for economic development in Kenya," Discussion paper 951, IFPRI, Washington D.C. 2010.
29. "Agricultural growth, poverty, and nutrition in Tanzania," with K. Pauw, Discussion paper 947, IFPRI, Washington D.C. 2010.
30. "Formal-informal economy linkages and unemployment in South Africa," with R. Davies, Discussion papers 943, IFPRI, Washington D.C. 2009.
31. "The impact of climate variability and change on economic growth and poverty in Zambia," with T. Zhu and X. Diao, Discussion paper 890, IFPRI, Washington, D.C. 2009.
32. "Lagging regions and development strategies: The case of Peru," with S. Morley and A.N. Pratt, Discussion paper 898, IFPRI, Washington D.C. 2009.
33. "Inequality and Poverty Impacts of Trade Distortions in Mozambique," with C. Arndt, Agricultural Distortions Working Paper 52794, World Bank. 2009.
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36. "Agglomeration, migration, and regional growth: A CGE analysis for Uganda," with P. Dorosh, Discussion paper 848, IFPRI, Washington D.C. 2009.
37. "Agriculture for development in Ghana: New opportunities and challenges," with C. Breisinger, X. Diao and R.M. Al-Hassan, Discussion paper 784, IFPRI, Washington D.C. 2008.
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46. "A Recursive Dynamic CGE Model and Micro-simulation Poverty Model for South Africa", with van D.E. van Seventer, Working Paper 1, Trade and Industrial Policy Strategies, Pretoria, South Africa. 2008.
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48. "Rural investment to accelerate growth and poverty reduction in Kenya," with J. Kiringai and M. Gautam, Discussion paper 723, IFPRI, Washington D.C. 2007.
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50. "The role of agriculture in development: Implications for Sub-Saharan Africa," with X. Diao, P. Hazell and D. Resnick, DSGD discussion paper 29, IFPRI, Washington D.C., 2006.
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52. "Prospects for growth and poverty reduction in Zambia, 2001-2015," with H. Lofgren and S. Robinson, DSGD discussion paper 11, IFPRI, Washington D.C. 2004.
53. "A Dynamic Computable General Equilibrium (CGE) Model for South Africa: Extending the Static IFPRI Model", Working Paper 1, Trade and Industrial Policy Strategies, Pretoria, South Africa. 2004.
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56. "Macro and micro effects of recent and potential shocks to copper mining in Zambia," with H. Löfgren and S. Robinson, TMD discussion paper 99, IFPRI, Washington D.C. 2002.

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CONFERENCES AND INVITED PRESENTATIONS (SINCE 2008)

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|----------------|--|
| 21-28 Jun 2015 | UNU-MERIT/SIPRI/IPPA-UCA/ISDC Summer School: "Impact Evaluation Methods in Central Asia"
Presentation "Economywide Impact Evaluation" |
| 23 Jan 2015 | ISSER/IFPRI Roundtable Discussion: "Youth, Employment and Agriculture"
Presentation: "Youth and Jobs in African Agriculture" |
| 18-20 Jun 2014 | GTAP Conference: "New Challenges in Food Policy, Trade and Economic Vulnerability", Senegal.
Presentation: "An Integrated Approach to Energy Modelling in South Africa" |
| 9 Apr 2014 | IFPRI Workshop: "Growth, Poverty and Nutrition Linkages and the Role of FISP", Lilongwe, Malawi.
Presentation: "The Economy-Wide Impacts and Risks of Malawi's Farm Input Subsidy Program" |
| 9-10 Dec 2013 | IFPRI/MSU/MINAG Workshop: "Transforming Agriculture in Mozambique", Maputo, Mozambique
Presentation: "Evaluating Mozambique's Agricultural Investment Plan" |
| 16-19 Oct 2013 | Poverty, Equity and Growth Network's (PEGNET) Annual Conference, Copenhagen, Denmark
Panel presentation: "Is there a trade-off between green growth and poverty reduction?"
Paper: "Producing biofuels in low-income countries: An integrated assessment for Tanzania" |
| 28-29 Sep 2012 | UNU-WIDER Conference: "Climate Change and Development Policy", Helsinki, Finland
Presentation: "The Economic Implications of Introducing Carbon Taxes in South Africa" |
| 20-24 Aug 2012 | International Association of Agricultural Economists Triennial Conference, Foz de Iguaçu, Brazil
Presentation: Development under Climate Change in the Zambezi River Valley Countries |
| 18 Jun 2012 | UNDP, UNU-IAS and Fundação Getulio Vargas, Rio de Janeiro, Brazil (Rio+20 UNCSD)
Presentation: "The Political Economy of Green Growth: Cases from Southern Africa" |

- 17 Feb 2012 Department of Economics, Örebro University, Sweden
Presentation: "Multi-Sector Climate Vulnerability Assessments in Bangladesh and Mozambique"
- 6-7 Feb 2012 IFPRI Conference: "Food Secure Arab World: A Roadmap for Policy and Research"
Presentation: "Creating Jobs for the Youth in the MENA Region"
- 18 Jan 2012 Faculty of Economics and Business Administration, University of Duisburg-Essen, Germany
Presentation: "Biofuels, Poverty and Gender in Mozambique"
- 16-18 Nov 2011 Bonn2011 Conference: "The Water, Energy and Food Security Nexus"
Panel presentation: "Bioenergy, Water and Food: Developing Country Perspectives"
- 16-18 Jun 2011 GTAP Conference: "Governing Global Challenges: Climate Change, Trade, Finance and Development"
Paper: "Low Carbon Development and Carbon Taxes in South Africa"
- 10-11 May 2011 IFPRI- ISSER Conference: "Structural Transformation in Sub-Saharan Africa", Accra, Ghana
Paper: "Trade-offs between Public Investments in Rural and Urban Sectors"
- 5 May 2011 MTT (Agrifood Research Finland), University of Helsinki, Finland
Presentation: "Climate Change and Economic Development"
- 28 Apr 2011 LAREQUAD-FSEGT Workshop: "Climate Change in Tunisia", University of Tunis, Tunisia.
Presentation: "The Economic Costs of Extreme Weather Events"
- 22 Mar 2011 Economics Department, University of Tampere, Finland
Presentation: "Climate Change and Economic Development"
- 15 Dec 2010 Finnish Ministry of Foreign Affairs Workshop: "Green Growth and Development", Helsinki, Finland
Presentation: "Green technologies and alternative energy sources"
- 25 Nov 2010 UN-FAO Workshop: "Bioenergy and Food Security", Rome, Italy
Presentation: "Biofuels, poverty and growth in Tanzania"
- 02-03 Sep 2010 Poverty, Equity and Growth Network's (PEGNET) Annual Conference, Johannesburg, South Africa
Paper: "Adapting to Climate Change: An Integrated Biophysical Economic Analysis for Mozambique"
- 07-08 Jun 2010 National Treasury, Pretoria, South Africa
Paper: "Addressing Climate Uncertainty in Adaptation Strategies"
- 21-23 Mar 2010 Center for the Study of African Economies (CSAE), University of Oxford, United Kingdom
Paper: "Impact of Climate Variability and Change on Economic Growth and Poverty in Zambia"
- 16-22 Aug 2009 International Agricultural Economics Association (IAAE), Beijing, China
Paper: "Biofuels, poverty and growth: A CGE analysis of Mozambique"
(Awarded the Nils Westermarck Prize)
- 25-27 Jun 2009 Ethiopian Economics Association (EEA) Annual Conference, Addis-Ababa, Ethiopia
Paper: "Agricultural Growth and Investment Options in Ethiopia"
- 27-29 Oct 2008 Development Policy Research Unit (DPRU), Pretoria, South Africa
Paper: "Formal-Informal Sector Linkages: A Case Study of South Africa"
- 11-12 Sep 2008 Poverty and Economic Growth Network (PEGNet) Annual Conference, Accra, Ghana
Paper: "Agriculture for Development in Ghana: New Opportunities and Challenges"
- 12-14 Jun 2008 Global Trade Analysis Project (GTAP) Annual Conference, Helsinki, Finland
Paper: "Asian-driven Resource Booms in Africa: Rethinking the Impacts on Development"

TEACHING COURSES (SINCE 2008)

- 10-11 Feb 2012 "An Introduction to Computable General Equilibrium Modeling"
Host: Laboratoire de Recherche en Économie Quantitative du Développement (LAREQUAD), University of Tunis, Tunisia.

- 25-29 Jun 2011 "The Economics of Climate Change"
Host: African Economic Research Consortium, UNU-WIDER, and University Cape Town, South Africa.
- 18-21 May 2010 "Simulating the Economywide Impacts of Biofuels Investments"
Host: Institute of Development Studies (IDS), University of Dar es Salaam, Tanzania
- 05-16 Mar 2010 "Introduction to Computable General Equilibrium Modeling"
Host: Department of Economics, University of Addis Ababa, Ethiopia
- 4-5 Nov 2009 "Analyzing the Food Crisis Using a CGE Model of Malawi"
Host: Ministry of Agriculture and Food Security, Lilongwe, Malawi
- 20-23 Jul 2009 "Introduction to GAMS, SAMs and CGE Analysis"
Host: Central Institute for Economic Management (CIEM), Hanoi, Vietnam
- 27-29 May 2009 "Advanced Topics in CGE Modeling: Recursive Dynamics and Microsimulation Analysis"
Host: National Treasury, Pretoria, South Africa
- 21-23 Jul 2008 "Policy Analysis Using Static and Dynamic CGE Models"
Host: Economic Policy Research Center (EPRC), Makerere University, Uganda
- 20 May 2008 "Using IFPRI's New CGE Model of Peru"
Host: Grupo de Análisis para el Desarrollo (GRADE), Lima, Peru