

Jeffrey Roger Alwang
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EDUCATION

Cornell University, Department of Agricultural Economics, Ph.D. (1989)
Pennsylvania State University, Department of Agricultural Economics, M.S. (1985)
Pennsylvania State University, Department of Political Science, B.A. (1978)

EXPERIENCE

Assistant-Associate- Full Professor, Department of Agricultural Economics, Virginia Tech. May 1989-present. Teaching: Rural and Regional Policy; Dynamic Economic Analysis; International Agricultural Development and Trade. Research focused on poverty and vulnerability, agricultural and food price policy, policies for environmental preservation.

Consultant, Standing Panel for Impact Assessment, CGIAR, 2012-2013. Edited book on impacts (economic, food security, poverty) of investments in agricultural research in Africa and South Asia.

Consultant, Donor Global Platform for Rural Development, 2012. Reviewed literature and created conceptual framework for donors decisions about investing in agricultural research.

Consultant, CIFOR (International Forestry Research Center, Bogor Indonesia), 2011-present. Designed and implemented impact assessment for project promoting women's participation in decentralized forest management in Nicaragua and Honduras.

Consultant, Government of El Salvador, Comisión Nacional de Desarrollo, 2008-2009. Prepared development plan for the Northern Zone of El Salvador to complement MCC investments in region.

Consultant, Government of Paraguay, 2007. Conducted analysis of impacts of rural poverty reduction program (PRODECO).

Consultant, Government of Zimbabwe, 2006-2007. Conducted analysis of poverty situation in country, trained local researchers in poverty analysis techniques.

Consultant, International Livestock Research Institute, 2005-2006. Conducted review of spatial analysis and systems modeling; reviewed household analysis publication.

Consultant, World Bank, 1993-present. Conducted several major studies for World Bank, all related to rural poverty reduction and rural development. Key activities:

- Central America Drivers of Rural Growth and Poverty Reduction. Three-country case study designed to analyze the sources of rural growth and make recommendations about prioritization of investments
- Social Risk Management, 1999-2001. Several short-term consultancies to prepare

- conceptual papers on SRM
- Zimbabwe Poverty Assessment. Sabbatical leave to Zimbabwe, 1997-1998; other technical assistance provided to ZIMSTAT in 2010-2013.
- Malawi Poverty Assessment. Study of poverty in rural Malawi, designed to make recommendations about structure of the Malawi Social Action Fund, 1995-1997
- Zambia Rural Poverty Assessment, 1993-1994

Consultant, IFPRI, 2001-2002. Led analysis of review of IFPRI research on microfinance.

Technical Advisor, Government of Zimbabwe (Central Statistical Office and Social Development Fund). August 1997-July 1998. Sabbatical leave from University. Led analysis team examining causes of poverty in Zimbabwe and changes through the 1990s. Advised government on poverty-related policy.

Consultant, IFPRI, 1989. Designed analysis of public foodgrain distribution system in Bangladesh.

Research Support Specialist, Cornell Nutritional Surveillance Program, Santiago, Chile. May-August 1985. Prepared and administered data analysis and statistics units for a nutritional surveillance course. Taught frequent classes (in Spanish). Supervised data analysis projects.

U. S. Peace Corps Volunteer, Paraguay. April 1979-July 1982.

LANGUAGES

Native English speaker. Speaks (good) and writes (good) Spanish. Speaks (fair) Guarani.

HONORS AND AWARDS

Virginia Tech Outstanding Dissertation Advisor, 2012. PhD Student (Catherine Laroche) won university dissertation award.

Election to Graduate Faculty, Purdue University. May 2010. Purdue University Graduate School.

Keynote Speakers Award. 2009. XI international conference on integrated pest management in Latin America. Tegucigalpa, Honduras.

IPM Excellence Awards, presented by the 6th International IPM Symposium on March 24, 2009

Virginia Tech Alumni Award for Excellence in International Outreach and Research, 2006.

Poverty Analysis for Government of Zimbabwe. 2006. Government of Zimbabwe/United Nations Development Programme. Location: Harare, Zimbabwe. Recipients: Jeffrey Alwang and Central Statistical Office of Zimbabwe Poverty Analysis Team.

World Bank SPOT Award for Research Excellence, 2005.

International Food Policy Research Institute, International Essay Competition on Measuring the Value of Social Science Research, first place, 1997 (with George Norton).

Invited lecturer, Christiann Michelsen Institute, Bergen, Norway, January 1997.

American Agricultural Economics Association, Quality of Research Finding Honorable Mention, 1994 (with Paul Driscoll), for article "Welfare Analysis when Budget Constraints are Non-linear: The Case of Flood Hazard Reduction," *Journal of Environmental Economics and Management*

American Agricultural Economics Association, Quality of Communication Award, 1993 (with George Norton), for book *Introduction to Economics of Agricultural Development*.

GRANTS (\$10.80 million)

Alwang, Norton and Larochelle. Impact of C-88 in China. CIP/SPIA \$54,000. 2015-2016

Alwang. Nutritional and Food Security Impacts of Improved Lentil Varieties in Bangladesh. ICARDA/SPIA. \$10,000. 2015-2016.

LAROCHELLE C., J. Alwang, G. Norton. November 2014 - November 2016. Assessing impacts of adoption of high iron bean varieties on bean and iron intake in rural vulnerable populations in Rwanda. CGIAR Standing Panel on Impact Assessment. Total Amount: \$98,517.

Alwang J., S. Richter. March 2015 - December 2018. Crowdsourcing crop improvement: evidence base and outscaling model; Bioversity, CATIE, and Zamorano. USAID/Development Innovation Ventures. \$120,000.

Alwang J., E. Shirey*. May 2015 - August 2015. Borlaug Graduate Research Fellowship Grant Program for Impact Assessment of CIP Genebank. Purdue University Center for Global Food Security. \$10,800.

Norton G., J. Alwang, G. Davis. August 2013 - July 2017. BHEARD Program: Mozambique. Michigan State University(USAID funds). \$201,405.

George W. Norton, Jeffrey Alwang and Bradford Mills. New partnerships for building impact assessment capacity in the CGIAR. \$286,185. FAO/SPIA CG/Bill and Melinda Gates Foundation. 2014-2015.

Catherine Larochelle and Jeffrey Alwang. Varietal Adoption of Beans and Sweet Potatoes in Rwanda and Uganda. \$60,000. Harvest Plus/Bill and Melinda Gates Foundation. 2013.

Jeffrey Alwang, Catherine Larochelle and George W. Norton. Deepening the analysis of impacts of bean and sweet potato research in Uganda and Rwanda. CGIAR/Bill and Melinda Gates Foundation. \$35,000. Partnership with CIP & CIAT and National Agricultural Research Systems in Uganda and Rwanda. 2013.

Jeffrey Alwang, George W. Norton. Measuring and Assessing Poverty and Food Security Impacts of the Diffusion of Maize and Wheat Varieties in Africa. Gates/Standing Panel on Impact Assessment. Total Amount: \$80,000. Partnership with CIMMYT and National Agricultural Research Systems in Ethiopia and Kenya, 2011-2012.

Alwang J., R. Botello, A. GANDARILLAS. August 2012 - August 2016. INNOVACIONES PARA EL MANEJO DE LA FERTILIDAD DEL SUELO DE ZONAS DE LADERA EN BOLIVIA. McKnight Foundation. \$400,000.

Jeffrey Alwang, George W. Norton, Klaus Moeltner, Robert Andrade, Guy Hareau, and Ricardo Labarta. Measuring the poverty reducing impacts of beans and sweet potato research in Uganda and Rwanda. CGIAR/Bill and Melinda Gates Foundation. \$250,000. Partnership with CIP & CIAT and National Agricultural Research Systems in Uganda and Rwanda. 2011-2012.

Jeffrey Alwang. Assessment of policy impacts of ADA project in Uganda and Nicaragua. \$63,000. CIFOR (International Forestry Research Institute), 2011-2013.

Jeffrey Alwang and Bradford Mills. Data Analysis For The 2011 Health Equity Report and perception of risk and barriers in the diagnosis of breast cancer in rural areas of Virginia. Virginia Department of Health. \$19,560. 2010.

George Norton and Jeffrey Alwang. Evaluation of ipmPIPE and Innovative Diagnostic Tools for Onion Growers. USDA through subcontract with Colorado State University. \$134,616. 2010-2013.

Jeffrey Alwang, Wills Flowers, Sue Tolin, Paul Backman, George Norton, Sarah Hamilton and Steven Weller. IPM in Latin America and the Caribbean: IPM Packages for Economic Growth in the Region, USAID Integrated Pest Management Collaborative Research Support Project (IPM-CRSP), \$1.65 million. 2009-2014.

Jeffrey Alwang, Paul Backman, Robert Gallagher, George W. Norton, Darrell Bosch, and Sarah Hamilton. Conservation Agriculture in Fragile Andean Regions: Ecuador and Bolivia. USAID Sustainable Agriculture and Natural Resource Management Collaborative Research Support Project (SANREM-CRSP), \$1.2 million. 2009-2014.

Alwang J., G. Norton, D. Bosch, and P. Backman. Watershed-based Natural Resource Management in Small-scale Agriculture: Sloped Areas of the Andean Region--Extension of Continuing Activities. USAID/SANREM CRSP. \$61,461. 2009-2010.

Norton G., J. Alwang, and D. Taylor. IPM Impact assessment for the IPM CRSP. U.S. Agency for International Development (USAID). \$325,000. 2009-2014.

Norton, G., and J. Alwang. Assessment of Options for Facilitating the Dissemination Systems for Improved Cassava Varieties in Nigeria and Ghana. CIMMYT (through Generation Challenge Program of the CGIAR). \$101,579. 2009-2010.

Alwang, J. and C. Elias. Economic Development Plan for the Northern Zone of El Salvador. USTDA. \$425,000. 2008-2009.

Alwang, J., D. Bosch, J. Cundiff, and R. Hirsch, USDA National Needs PhD Support Program, Biofuels PhD Education Program. \$252,000. 2008-2011

Norton, G.W., and J. Alwang. July 2007 - June 2009. Evaluation of IPM in the Southern Region. U.S. Department of Agriculture. \$99,719. 2007-2009.

Norton, G. W., and J. Alwang. Ex Ante Impact Analysis of Marker-Assisted Selection Technologies Supported by the Generation Challenge Program. CGIAR Generation Challenge Program. \$148,618. 2007-2008.

Alwang, J. F. Pichon and H. Jansen. Drivers of Growth in Trifinio Region of Central America. World Bank Partnership Program/Government of Netherlands. \$317,000. 2007-2008.

Alwang, J., W. Flowers, S. Tolin, P. Backman, G. Norton, S. Hamilton and S. Weller, IPM in Latin America and the Caribbean: Crops for Broad-based Growth and Perennial Production for Fragile Ecosystems, USAID Integrated Pest Management Collaborative Research Support Project (IPM-CRSP), \$800,000. 2006-2009.

Alwang, J., P. Backman, B. Benham, D. Bosch, W. Flowers, C. Haas, S. Hamilton, G. Norton and M. Wolfe. Watershed-based Natural Resource Management in Small-scale Agriculture: Sloped Areas of the Andean Region Ecuador and Bolivia, USAID Sustainable Agriculture and Natural Resource Management Collaborative Research Support Project (SANREM-CRSP), \$1.2 million. 2006-2009.

Mills B., Alwang, J. Provo, and T. Settle. Economic Benefit Analysis of the Virginia Coalfield Economic Development Authority. Virginia Coalfield Economic Development Authority. \$40,000. 2006-2007.

Alwang J., G. Norton and D. Taylor. Participatory IPM: A Model for Implementing Pest Management in a Global Context. IPM CRSP. \$64,638. 2005

Alwang J., S. Tolin, G. Norton, S. Hamilton, P. Backman and W. Flowers. November 2005 - December 2005. IPM in Latin America and the Caribbean: Crops for Broad-based Growth and Perennial Production for Fragile Ecosystems. IPM CRSP. \$56,873. 2005.

Alwang, J., P. Backman, B. Benham, D. Bosch, W. Flowers, C. Haas, S. Hamilton, G. Norton and M. Wolfe. Natural Resource Management for Small-scale Agriculture: Sloped Areas of Latin America. SANREM CRSP: planning grant. My Amount: \$34,835. 2005.

Alwang J., W. Flowers, S. Tolin, P. Backman, G. Norton, S. Hamilton and S. Weller. IPM for Fragile Ecosystems: Perennials in Latin America and the Caribbean. IPM CRSP: planning grant \$14,955. 2005.

G. Eaton and J. Alwang. Economic Impacts of the Green Industry. Virginia Nursery & Landscape Association, Inc. \$21,646, 2004-2005.

B. Mills, J. Alwang and G. Norton. The Role of 1890s in Building Human Capital Among Rural People. USDA/NRI. 2001-2003. \$98,313.

Alwang, J., D. Taylor and D. Orden. Participatory IPM: A Model for Implementing Pest Management in a Global Context. USAID. \$283,302, 2000-2005.

J. Alwang. Economic Consequences of Dividing I-81 and I-77 on Wythe County and Town of Wytheville. Virginia Department of Transportation. \$60,800. 2000-2001.

E. Peterson, J. Alwang and B. Mills. Assessing the Impacts of Incentives to Attract New Businesses: A Case Study of the Scrap Recycling Industry. Virginia Division of Legislative Services. \$50,440. 2000-2001.

B. Mills, J. Alwang, S. Jensen and J. Findeis. Poverty, Labor Markets, and the Potential Impact of Welfare Reform Among Single Female-headed Families in the Rural South. USDA/NRI. \$105,000. 1999-2002.

J. Alwang, B. Mills and G. Hazarika. Economic Impact of Virginia Tech. Virginia Tech Office of the President. \$60,000. 1999-2001.

B. Mills, E. Peterson and J. Alwang. Links Between TANF and Foodstamp Program Participation. Southern Rural Development Center. \$16,333. 1999-2000.

W.K Kerns and J. Alwang. A Growth Alternatives Education Program for the Virginia Portion of the Chesapeake Bay Watershed. USDA CSREES. \$49,000. 1999-2000.

J. Alwang. Zimbabwe Poverty Analysis Project. The World Bank. \$14,500. 1998-1999.

J. Alwang, D. Lamie. Pulaski County Housing Study. Pulaski County Virginia, Board of Supervisors. \$20,000. 1997-1998.

T. Johnson, J. Alwang and R. Pethtel. Potential Benefits of Intelligent Transportation Systems. Virginia Tech Center for Transportation Research. \$21,209. 1996-1997.

J. Alwang, D. Lamie. Economic Impact of Migrant and Seasonal Farmworkers on Virginia State Economy. Virginia Agricultural Research Council. \$35,000. 1997-1998.

Bertelsen M., G. Norton, D. Taylor, J. Alwang, and S.K. De Datta. Peanut CRSP Collaborative Research Support Program. University of Georgia from its USAID-funded Peanut CRSP. \$657,733. 1996-2007.

J. Alwang. Improving the Retail Sub-Sector in Downtown Wytheville. Downtown Wytheville, Inc. \$5000. 1995.

J. Alwang. Malawi Poverty Profile. World Bank. \$15,000. 1995.

J. Alwang, D. Wooddall-Gainey, and J. Spittle. Crew Leader Automated Software. Virginia Employment Commission. \$33,000. 1994.

J. Alwang. Zambia Poverty Assessment. World Bank. \$8,000. 1993.

J. Alwang, D. Wooddall-Gainey, and J. Spittle. I-9, W-4, V-4 Crew Leader Automated Software. Virginia Employment Commission. \$16,788. Virginia Employment Commission. 1992-1993.

J. Alwang and D. Wooddall-Gainey. Update of Farm Labor Law Program (MILAW). Virginia Department of Labor and Industry. \$8,500. 1992-1993.

J. Alwang. Economic Impact of Migrant Workers on Virginia's Eastern Shore. Community Health Management Corporation. \$9,600. 1992.

P. B. Siegel, T. Johnson and J. Alwang. The Evaluation and Selection of Alternative Development Strategies. National Coastal Research Institute. \$32,165. 1991-1992.

M. Prehm and J. Alwang. Food and Nutrition Monitoring and Support Project. USAID. \$83,409. 1990-1995.

J. Alwang, D. Wooddall-Gainey and J. Spittle. Alien Certification Software and Systems Development. Virginia Employment Commission. \$97,601. 1990-1993.

J. Alwang and G. Norton. Institutional Approaches for Encouraging Sustainable Use of Natural Resources in Developing Countries. USAID-SARSA. \$33,518. 1990-1992.

J. Alwang and D. Wooddall-Gainey. MILAW: A Proposal for Educational Activities. Virginia Employment Commission. \$2,970. 1989-1990.

PUBLICATIONS

Books or monographs authored

Thomas S. Walker and Jeffrey Alwang, *Improved varieties of food crops in sub-sabaran Africa*, Great Britain: CAB International (CABI) Press, 2015.

George W. Norton, Jeffrey Alwang and William A. Masters. *Economics of Agricultural Development. 3rd Edition*. New York: Routledge Press, 2015.

George W. Norton, Jeffrey Alwang and William A. Masters. *Economics of Agricultural Development. 2nd Edition*. New York: Routledge Press, 2010.

Victor Barrera, Jeffrey Alwang and Elena Cruz. *Experiencias de manejo integrado de recursos naturales en la subcuenca del río Chimbo, Ecuador*. Editorial ABYA-YALA. Quito, Ecuador, 2010.

Victor Barrera, Jeffrey Alwang and Elena Cruz. *Manejo integrado de los recursos naturales para agricultura de pequeña escala en la subcuenca del río Chimbo-Ecuador: Aprendizajes y enseñanzas*. Quito: INIAP and SENACYT, 2008.

Jeffrey Alwang, Nelson Taruvinga and Rees Mpofo. *Zimbabwe Poverty Assessment: Analysis of 2001 ICES Data*. Harare: Government of Zimbabwe Printing Office, 2007.

George W. Norton, Jeffrey Alwang and William A. Masters. *Economics of Agricultural Development*. New York: Routledge Press, 2006.

Victor Barrera, Luis Escudero, George W. Norton and Jeffrey Alwang. *Encontrando Salidas para Reducir los Costos y la Exposición a Plaguicidas en los Productores de Papa. Experiencia de la Intervención en la Provincia del Carchi, Ecuador*. Quito: INIAP, 2004.

Jeffrey Alwang, Bradford F. Mills and Nelson Taruvinga. *Why Has Poverty Increased in Zimbabwe? Poverty Dynamics in Africa Monograph*. Washington, D.C.: The World Bank, 2002.

Jeffrey Alwang, Nelson Taruvinga, Lenord Turugari, Daniel Massimu and Rees Mpofo. *Poverty in Zimbabwe*. Harare: Government of Zimbabwe Printing Office and the World Bank, 1998.

Jeffrey Alwang and Paul B. Siegel, *Zambia Poverty Assessment Volume 2: Rural Poverty*. Washington, D.C.: The World Bank, Report No. 12985-ZA, 1994. 150 pp.

George W. Norton and Jeffrey Alwang. *Introduction to Economics of Agricultural Development*. New York: McGraw-Hill, 1993.

Book chapters

Jeffrey Alwang. 2015 “Investments in and impacts of crop improvement research in Africa”, Chapter 2 in Thomas S. Walker and Jeffrey Alwang (eds.), *Improved varieties of food crops in sub-sabaran Africa*.

- Jeffrey Alwang. 2015 “Implications for monitoring progress and assessing impacts”, Chapter 19 in Thomas S. Walker and Jeffrey Alwang (eds.), *Improved varieties of food crops in sub-sabaran Africa*.
- Thomas S. Walker and Jeffrey Alwang. 2015 “Synthesis of Findings”, Chapter 21 in Thomas S. Walker and Jeffrey Alwang (eds.), *Improved varieties of food crops in sub-sabaran Africa*.
- Di Zeng, Jeffrey Alwang, George W. Norton, Bekele Shiferaw, Moti Jaleta and Chilot Yirga. 2015. “Maize technologies and rural poverty reduction in Ethiopia”, Chapter 15 in Thomas S. Walker and Jeffrey Alwang (eds.), *Improved varieties of food crops in sub-sabaran Africa*.
- Catherine Larochelle, Jeffrey Alwang, George W. Norton, Enid Katungi, and Ricardo A. Labarta. 2015. “Impacts of Improved Bean Varieties on Poverty and Food Security in Uganda and Rwanda”, Chapter 16 in Thomas S. Walker and Jeffrey Alwang (eds.), *Improved varieties of food crops in sub-sabaran Africa*.
- George W. Norton and Jeffrey Alwang. 2015. The Role of Impact Assessment in Evaluating Agricultural R & D. Chapter 11 in *Agricultural Research in Africa: Investing in Future Harvests*. Washington, DC: IFPRI/ASTI.
- Jeffrey Alwang, George W. Norton, Victor Barrera and Ruben Botello. 2013. Conservation Agriculture in the Andean Highlands: Promise and Precautions. Chapter 3 in S. Mann (ed.), *The Future of Mountain Agriculture*, Springer Geography, DOI: 10.1007/978-3-642-33584-6_3, Berlin Heidelberg: Springer-Verlag.
- Sibusisu Moyo, George W. Norton, Jeffrey Alwang, Ingrid Rhinehart and Mike Deom. 2011. “Peanut Research and Poverty Reduction: Impacts of Variety Improvement to Control Peanut Viruses in Uganda” Chapter 53 in *Agricultural Development: Critical Concepts in Development Studies*, edited by Christopher B. Barrett, New York: Routledge Press.
- Jeffrey Alwang and Andrew Sowell. 2010. “Socioeconomic factors affecting soil and water conservation in South America” chapter 18 (pp. 305-319) in Ted Napier, ed *Human Dimensions of Soil and Water Conservation*. Nova Science Publishers: Hauppauge NY.
- Jeffrey Alwang, Victor Barrera, Robert Andrade, Sarah Hamilton and George W. Norton. 2009. “Adaptive watershed management in the South American highlands: Learning and teaching on the fly.” Chapter 10 in Moore, Keith M. (editor). *The Sciences and Art of Adaptive Management: Innovating for Sustainable Agriculture and Natural Resource Management*. Soil and Water Conservation Society. Ankeny, Iowa.
- Hans G. P. Jansen, , Paul B. Siegel, Jeffrey Alwang and Francisco Pichon. 2007 “Geography, livelihoods and rural poverty in Honduras: An Empirical Analysis using an Asset-base Approach”. Pp. 221-256 in: Stephan Klasen and Felicitas Nowak-Lehmann (eds) *Poverty, Inequality and Migration in Latin America*. Berlin: Peter Lang Verlag.
- Alwang, J., S.C. Weller, G.E. Sanchez, L. Calderon, C.R. Edwards, S. Hamilton, R. Williams, M. Ellis, C. Suarez, V. Barrera, C. Crissman and G.W. Norton. 2005. “Developing IPM packages in Latin America,” chapter 5 in *Globalizing Integrated Pest Management: A Participatory Research Process*, G.W. Norton, E.A Heinrichs, G.C. Luther and M.E. Irwin editors. Ames Iowa: Blackwell Publishing.
- George W. Norton and Jeffrey Alwang. 2004. “Measuring Benefits of Policy-Oriented Social

Science Research: Evidence from Two Developing Countries”, Chapter 10 in P.G. Pardey and V.H. Smith, eds. *What's Economics Worth?* Baltimore: Johns Hopkins University Press.

Alwang, J. and P.B. Siegel. 2003. “Measuring the Impacts of Agricultural Research on Poverty Reduction: Improving the Dialogue between Policymakers and Research Managers,” Chapter 5 in S. Mathur and D. Pachico, eds, *Agricultural Research and Poverty Reduction: Some Issues and Evidence*. Cali: CIAT Publications.

Papers in refereed journals

- (80) Michael Barrowclough and Jeffrey Alwang. 2015, forthcoming. “Farmer preferences for conservation agriculture attributes: A choice experiment from Ecuador,” *Environment and Development Economics*, under review.
- (79) Victor Barrera, Michael Barrowclough, Juan Manuel Dominguez, Jorge A. Delgado, Richard Stehouwer, Rob Gallagher and Jeffrey Alwang, “Conservation agriculture on steep slopes in the Andes: Promise and obstacles,” *Journal of Soil and Water Conservation*, under review.
- (78) Catherine Larochelle and Jeffrey Alwang, “Schooling achievement among rural Zimbabwean children during a period of economic turmoil,” *Comparative Education Review*, in press (2016).
- (77) Vanessa Carrion, Jeffrey Alwang, George W. Norton and Victor Barrera, “Does IPM Have Staying Power? Revisiting a Potato-producing Area Years After,” *Journal of Agricultural Economics*, in press (2016).
- (76) Di Zeng, Wen You, Bradford Mills, Jeffrey Alwang, Michael Royster and Rexford Anson-Dwamena, 2015, A closer look at the rural-urban health disparities: Insights from four major diseases in the Commonwealth of Virginia,” *Social Science and Medicine* 140:62-68.
- (75) Quentin Stoeffler, Jeffrey Alwang, Bradford F. Mills and Nelson Taruvinga. 2016. “Multidimensional poverty in crisis: Lessons from Zimbabwe,” *Journal of Development Studies*, in press.
- (74) Kate Vaiknoris, George Norton and Jeffrey Alwang. 2015. “Farmer preferences for attributes of conservation agriculture in Eastern Uganda”, *African Journal of Agricultural and Resource Economics*, 10(2), June 2015: 158-173.
- (73) Di Zeng, Jeffrey Alwang, George W. Norton, Bekele Shiferaw and Moti Jaleta. 2015. “Agricultural technology adoption and child nutrition: Improved maize varieties in rural Ethiopia,” *Agricultural Economics*, in press.
- (72) Catherine Larochelle and Jeffrey Alwang. 2015, Explaining marketing strategies among Bolivian potato farmers. *Quarterly Journal of International Agriculture*. 54(3): 283-306.
- (71) Di Zeng, Jeffrey Alwang, George W. Norton, Bekele Shiferaw and Moti Jaleta. 2015. “Ex-Post Impacts of Improved Maize Varieties on Poverty in Rural Ethiopia” *Agricultural Economics*, 46(4): 515-526. DOI: 10.1111/agec.12178
- (70) Ana K. Saavedra, Jorge A. Delgado, Ruben Botello, Pablo Mamani, Jeffrey Alwang. 2014. “A New N Index to Assess Nitrogen Dynamics in Potato Production Systems of Bolivia” *Agrociencia* 48(7): 667-678.

- (69) Howard S., J. Alwang, G. Norton, W. Secor, J. Gao. and several others. 2014 "Onion ipmPIPE: A Coordinated Effort to Improve the Management of Onion Thrips and Iris Yellow Spot Virus for the U.S. Onion Industry," *Plant Health Review*,(15) 4 (November 2014): 172-183.
- (68) Luis Escudero, Jorge Delgado, Carlos Monar, Franklin Valverde, Víctor Barrera, and Jeffrey Alwang. 2014. "A New Nitrogen Index for Assessment of Nitrogen Management of Andean Mountain Cropping Systems of Ecuador." *Soil Science*, 179: 130–140.
- (67) Amy Buckmaster, Jeffrey Alwang, Everett Peterson and Mauricio Rivera. 2014. "Going the Distance: How does Market Access Affect Demand for IPM Packages?" *Journal of Integrated Pest Management*, 5(1): B1-B7(7)
- (66) Catherine Larochelle, Jeffrey Alwang and Nelson Taruvinga. 2014. "Inter-temporal Changes in Well-being During a Period of Hyperinflation: Evidence from Zimbabwe." *Journal of African Economies*, 23 (2): 225-256.doi: 10.1093/jae/ejt028.
- (65) Leah M. Harris, George W. Norton, A.N.M. Rezaul Karim, Jeffrey Alwang, and Daniel B. Taylor. 2013. "Bridging the Information Gap with Cost-Effective Dissemination Strategies: The Case of Integrated Pest Management in Bangladesh." *Journal of Agricultural and Applied Economics*, v. 5(4):1–16.
- (64) Carlos Monar, Ana Karina Saavedra, Luis Escudero, Jorge A. Delgado, Jeffrey Alwang, Victor Barrera and Ruben Botello. 2013. Positive Impacts in Soil and Water Conservation in an Andean Region of South America: Case Scenarios from a USAID Multidisciplinary Cooperative Project. *Journal of Soil and Water Conservation*, Jan/Feb 2013, v. 68(1): 25A-30A.
- (63) John Adam Sparger, George W. Norton, Paul Heisey, and Jeffrey Alwang. 2013. Is the Share of Agricultural Maintenance Research Rising in the United States? *Food Policy*. 38: 126-136.
- (62) Abigail Nguema George W. Norton, Jeffrey Alwang, Daniel B. Taylor, Victor Barrera, and Michael Bertelsen. 2013. Farm-level economic impacts of conservation agriculture in Ecuador. *Experimental Agriculture*. 49(1): 134-147.
- (61) Brad Copenhaver, Mary Elmer, Robert Gaffney, Caitlin Shaw and Jeffrey Alwang. 2012. "The Twin-Transfer Squeeze and Rural America: Vulnerability of Rural Virginia Counties to Funding Changes in Federal and State Transfer Programs," *Choices* (AAEA), October <http://www.choicesmagazine.org/choices-magazine/submitted-articles/the-twin-transfer-squeeze-on-rural-households-and-governments-in-virginia>
- (60) Pablo Mamani, Karina Saavedra, Edino Gonzales and J. Alwang. 2012. "La agricultura de conservacion: un posible camino hacia una mayor gestion de los recursos, mayor productividad y mejores condiciones socioeconomicas en la region andina," *Revista de Agricultura* (Bolivia), v. 51: 35-38.
- (59) Catherine Larochelle and Jeffrey Alwang. 2012. "The role of risk mitigation in production efficiency: A case study of potato cultivation in the Bolivian Andes," *Journal of Agricultural Economics*, v. 64(2):363-381.
- (58) Nadezda Amaya and Jeffrey Alwang. 2012. "Women Rule: Potato Markets and Access to Information in the Bolivian Highlands," *Agricultural Economics*, 43(4): 403-413.

- (57) Victor Barrera, Luis Escudero, Robert Andrade and Jeffrey Alwang. 2012. "Integrated management of natural resources in the Ecuador Highlands" *Agricultural Sciences*, pp.768-779, Pub. Date: 2012-09-21. DOI: 10.4236/as.2012.35093
- (56) Victor Barrera and Jeffrey Alwang. 2012. "Agricultural innovation for enhanced natural resources in the Ecuador Highlands" *New Agriculturalist: Research and Innovation*, May 2012 <http://www.new-ag.info/en/research/innovationItem.php?a=2601>
- (55) Jeffrey Alwang and Antonio Gandarillas. 2012 Investigaciones en el Manejo Sostenible de Cuencas y Recursos en la Agricultura Tradicional: El Caso de Tiraque, Bolivia, *Revista de Agricultura* (Bolivia), v. 51: 3-6..
- (54) Castelhana, M., J. Alwang, N. Kuminooff and R. Botello. 2012. "Eligen los agricultores las variedades de papa a producir como una forma de manejar mejor el riesgo que implica esta actividad?" *Revista de Agricultura* (Bolivia), v. 51: 39-46.
- (53) Amaya, N. and J. Alwang. 2012. "Acceso a información, relaciones de género y acceso a los mercados de papa en la cuenca Jatun Mayu localizada en Tiraque, Bolivia," *Revista de Agricultura* (Bolivia), v. 51: 63-72.
- (52) Larochelle, C., J. Alwang y R. Botello. 2012. "Análisis de la Eficiencia en la Producción de Papa," *Revista de Agricultura* (Bolivia), v. 51: 27-38.
- (51) Sparger, J. A., J. Alwang, G.W. Norton, M. Rivera and D. Breazeale. 2011. "Designing an IPM Research Strategy to Benefit Poor Producers and Consumers in Honduras," *Journal of Integrated Pest Management*, 2(3): A1-A9.
- (50) Amaya, N. and J. Alwang. 2011. "Access to information and farmer's market choice: The Case of Potato in Highland Bolivia," *Journal of Agriculture, Food Systems, and Community Development*, 1(4): 35-53.
- (49) Steven Buck and Jeffrey Alwang, 2011. "The Impact of Trust on Learning: Results from a randomized field experiment in Ecuador," *Agricultural Economics*, 42(6): 685-699.
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Judith I. Stallmann and Jeffrey Alwang, "Permanent Part-time Farming in Virginia," *REAP Report R011*, Blacksburg: Virginia's Rural Economic Analysis Program, 1992, 15 pages.

INTERNATIONAL ACTIVITIES

Research, consulting, or advisory work in the following countries: Bangladesh, Bolivia, Brazil, Chile, China, Dominican Republic, Ecuador, El Salvador, Ethiopia, Ghana, Guatemala, Haiti, Honduras, Jamaica, Jordan, Kenya, Malawi, Morocco, Nepal, Nicaragua, Paraguay, Peru, Rwanda, Tanzania, Thailand, Uganda, Zambia, Zimbabwe.

Site chair and PI, South American Andean Site (Ecuador and Bolivia), USAID Sustainable Agriculture and Natural Resource Management Collaborative Research Support Project (SANREM-CRSP), 2005-present.

External reviewer, World Bank Rio Grande do Norte, Brazil Poverty Assessment, March 2001. Visited Fortaleza and Natal Brazil to review work on Northeastern poverty assessment and plan research for an upcoming state economic memorandum.

Site chair, Ecuador, USAID Integrated Pest Management Collaborative Research Support Project (IPM-CRSP), 2000-present. Coordinated External Evaluation Panel Review, 2001, prepared and edited detailed annual report and workplans, 2001& 2002.

Site chair and PI, Latin America and Caribbean Site (Dominican Republic, Honduras and Ecuador), USAID Integrated Pest Management Collaborative Research Support Project (IPM-CRSP), 2000-present.

Consultant to USAID, 1992. Review of PL-480 food assistance program in Haiti.

USAID/SARSA Research project, 1990-1992. Directed graduate research in the Dominican Republic and Honduras.

TEACHING AND ADVISING

Theses and dissertations

Jarrad Farris. 2015

Elli Travis. 2015.

- Eric Asare. 2015.
- Di Zeng. 2014. Three Essays on Adoption and Impacts of Improved Maize Varieties in Ethiopia. PhD. Agricultural and Applied Economics, Virginia Tech.
- Chao Yang. 2014. Does It Matter Who We Ask in Household Surveys? A Study on Gendered Effects and Decision Making Processes in Ecuador. M.S., Agricultural and Applied Economics, Virginia Tech.
- Angel Campoverde. 2014. Non-thesis option, M.S., Agricultural and Applied Economics, Virginia Tech.
- Horache Happy Phiri. 2013. The Political Economy of Food Policies in Malawi: A Case of Maize Policy. PhD, Department of Agriculture and Resource Economics, University of Malawi. External reviewer.
- Brady, Sally. 2013. Non-thesis option, M.S., Agricultural and Applied Economics, Virginia Tech.
- Zetts, Nick. 2012 Teaching Pesticide Safety Techniques to farmers and their families while formulating appropriate IPM techniques for future use in in the Andes community of Cahuasqui for *Persea americana*. M.S. On-line Degree Program, College of Agriculture and Life Sciences, Virginia Tech.
- Secor, William Glen. 2012. Two Essays on Evaluation Challenges in Integrated Pest Management: An Evaluation Design for the Onion ipmPIPE and Identifying Women's Crops and Agricultural Technologies. M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Buckmaster, Amy D. 2012. Going the Distance: The Impact of Distance to Market on Smallholders Crop and Technology Choices. M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Larochelle, Catherine. December 2011. Three essays on productivity and risk, marketing decisions, and changes in well-being over time. PhD Dissertation, Economics, Virginia Tech.
- Hall, Lindsay. 2010. International Water Management: A Framework to Evaluate Past Causes, Current Issues and Future Challenges of Equitable and Efficient Global Management. Undergraduate Honors Thesis, Virginia Tech.
- Amaya, Nadezda. Major Advisors: Alwang J. December 2009. Effects of access to information on farmer's market channel choice: The Case of Potato in Tiraque Sub-watershed (Cochabamba - Bolivia). M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Andrade, Robert 2008. Livelihood strategies of farmers in Bolivar, Ecuador: asset distribution, activity selection and income generation decisions in rural households. M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Castelhano, Michael. 2008. Staple Crop Diversity and Risk Mitigation- Potatoes in Bolivia. M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.

- Ouedraogo, Aissatou. 2008. Reaching the Chronic Poor and Food Insecure after a Disaster: The Case of Niger. M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Elias, Carlos. 2008. Balancing competing development objectives in the Trifinio region of Central America: economic and social development and environmental protection. PhD Dissertation, Economics, Virginia Tech.
- Eriksson, Katherine. 2007. Exploring Changes in Poverty in Zimbabwe between 1995 and 2001 using Parametric and Nonparametric Quantile Regression Decomposition Techniques. M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Buck, Steven. 2006. The Role of Trust in Knowledge Acquisition, Technology Adoption and Access to Bank Loans: Results from Field Experiments in the Ecuadorian Amazon. M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Carolina Baez 2004. "Potential Economic Benefits from Plantain Integrated Pest Management Adoption: The Case of Coastal Rural Households in Ecuador." M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Maria Mauceri 2004. "Adoption of Integrated Pest Management Technologies: A Case Study of Potato Farmers in Carchi, Ecuador," M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Sibusiso Moyo 2004. The Economic Impact of Peanut Research on the Poor: The Case of Resistance Strategies to Control Peanut Viruses in Uganda, M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Emily Jean Coppidge. 2004 An Economic Assessment of the Green Industry in Virginia. M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Lire Ersado. 2001. "Three Essays in Development Economics: Savings Behavior and Risk; Health and Public Investments; and Sequential Technology Adoption." Ph.D. Dissertation, July, pp. Won Driscoll Award for Best Dissertation.
- Kenneth Spear. 2001. "Effects of Credit, Income Diversification, and Other Factors on Child Nutrition in Malawi." M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Shangguan Zhaoyun. 2000. "Food Stamp Participation and Welfare in the Non-Metropolitan United States." M.S. Thesis, Agricultural and Applied Economics, Virginia Tech.
- Godfrey Gibbison. 1999. "Mother's Marital Status and the Educational Attainment of Children in Jamaica." Ph.D. Dissertation, May, 91 pp.
- Luke Colativo. 1997. "High Hill Yak Cheese Production in Nepal: An Analysis of Privatization Policy Incorporating the Impacts of Market Failures for Agro-Industries in Developing Countries." Ph.D. Dissertation, August, 132 pp.
- Katherine Niles. 1996. "Pinpointing Production Constraints Faced by Female-Headed Households in Rural Malawi." M.S. Thesis, October, 120 pp.
- Anna M. Cox. 1996. "Proactive Industrial Targeting: An Application of the Analytical Hierarchy

- Process.” M.S. Thesis, July, 173 pp.
- Thomas M. Bailey. 1996. “Analysis of Firm Desirability Among Virginia’s Economic Development Directors.” M.S. Thesis, August, 141 pp.
- David Novak. 1996. “Meeting State Waste Stream Reduction Mandates Through Recycling: Examining Residential Waste Disposal Behavior in Rural Virginia.” M.S. Thesis, August, 147 pp.
- Janet Hunter. 1995. “An Analysis of the Ability of Virginia’s Water Systems to Finance System Improvements.” M.S. Thesis, May, 144 pp.
- Ari Mwachofi. 1995. “Comparative Study of Rural Virginia Farm and Non Farm Household Labor Supply.” Ph.D. Dissertation, July, 280 pp.
- Jaime Ortiz. 1993. “The Effects of Agricultural Price Policies on the Funding of Agricultural Research in Chile, 1960-1988.” Ph.D. Dissertation, December. 210 pp.
- Brady J. Deaton, Jr. 1993. “The Influence of Communications Infrastructure on Agricultural Growth.” M.S. Thesis, June, 84 pp.
- Joseph C. Obidiegwu. 1992. "Distribution of Primary Care Physicians in Rural Virginia." M.S. Thesis, December, 119 pp.
- Sang Won Hwang. 1992. “Sustainable Use of Soil Resource Base in the Dominican Republic: A Farm Level Economic Analysis of Soil Conservation Practices.” M.S. Thesis, June, 184 pp.
- Julio A. Carcamo. 1992. “Sustainable Development in Honduras: Economic Evaluation of Soil Conservation Practices.” M.S. Thesis, June, 111 pp.
- Paul B. Siegel. 1992. “The Relationship Between Changing Economic Structure and Performance: Diversification, Diversity, Growth, Stability, and Distributional Impacts.” Ph.D. Dissertation, January, 182 pp..
- Huilin Huang. 1991. “Modelling Structural Change in the U.S. Demand for Meat.” M.S. Thesis, December, 123 pp.