

Jeffrey Roger Alwang
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EDUCATION

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

EXPERIENCE

Assistant-Associate (1994)- Full Professor (2001), Department of Agricultural Economics, Virginia Tech. May 1989-present. Teaching: Rural and Regional Policy; International Agricultural Development. Research focused on poverty and vulnerability, agricultural and food price policy, impacts of agricultural technologies on the poor.

Technical advisor, Government of Ecuador and Inter-American Institute for Cooperation in Agriculture (IICA) 2015-2018. Conducted study of blackberry market chain in highlands (2015-2016) and access to improved cocoa markets in Manabi (2018);

Technical advisor, Standing Panel for Impact Assessment, CGIAR, 2012-2013. Co-edited book summarizing impacts of CGIAR investments in agricultural research in Africa and South Asia.

Technical advisor and research leader, CIFOR (International Forestry Research Center, Bogor Indonesia), 2011-2016. Impact assessment for project promoting women's participation in decentralized forest management in Nicaragua and Honduras.

Technical advisor, Government of Zimbabwe 1996-current. Training and capacity building for poverty analysis, surveying and sample design, telephone survey methods, rapid communication of research results.

Technical advisor, World Bank, 1993-present. Led several major studies for World Bank, all related to rural poverty reduction and rural development. Currently engaged with team to revise procedures for national report on poverty. Other key activities:

- Central America Drivers of Rural Growth and Poverty Reduction. Three-country case study designed to analyze sources of rural growth and poverty reduction
- Social Risk Management, 1999-2001. Prepared conceptual papers on vulnerability measurement.
- Zimbabwe Poverty Assessment. Sabbatical leave to Zimbabwe, 1997-1998; other technical assistance provided to ZIMSTAT in 2010-2013 & 2017-2020.
- 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, 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

Lifetime achievement award, 2019. Presented by Instituto Nacional de Investigaciones Agropecuarias (INIAP), Ecuador, for lifetime support for mentorship and research excellence, May 2019.

First place award, 2nd competition in agricultural research, Ministry of Agriculture, Livestock and Fisheries, Ecuador, 2017. Award was for paper entitled "Mejoras en la cadena de valor de los productores de mora de Ecuador y sus impactos en los precios recibidos", co-authored by Victor Hugo Barrera Mosquera, Graciela Andrango, Juan Dominguez, Luis Escudero and Anibal Martinez.

Visiting Dingying Guest Professor, College of Economics and Management, South China Agricultural University, 2017-2020

External PhD examiner, University of British Columbia, for the Doctor of Philosophy in Integrated Studies in Land and Food Systems degree program, 2016.

Virginia Tech Outstanding Dissertation Advisor, 2012. PhD Student (Catherine Larochelle) 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 (\$12 million—recent shown)

Jeffrey Alwang, George W. Norton, Susan Chen, Catherine Larochelle, Katie White. 2019-2024. Research experiences for undergraduate students in Ecuador. USDA \$435,000.

Jeffrey Alwang, George W. Norton, Bradford F. Mills and Catherine Larochelle. Impact of CURE technologies in SE Asia. Jan 2018-June 2019. IFAD \$495,000.

Jeffrey Alwang. Economic impact of great plains agriculture. August 2017-July 2019. USDA/ARS \$125,000.

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

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

Catherine Larochelle, Jeffrey Alwang, George W. 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.

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

Jeffrey Alwang, Emma 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.

George W. Norton, Jeffrey Alwang, George 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.

Jeffrey Alwang, Ruben Botello, Antonio 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.

PUBLICATIONS

Books or monographs authored

Victor Hugo Barrera Mosquera, Jeffrey Alwang, T Casanova, Juan Manuel Dominguez, Luis
Orlando Escudero, G Loor, G Pena, J. Parraga, J. Arevalo, J. Quiroz. 2018. *La cadena de valor
del cacao y el bienestar de los productores en la provincia de Manabí-Ecuador*. Instituto Nacional de
Investigaciones Agropecuarias (INIAP). Libro Técnico No. 173, ARCOIRIS Producciones
Graficas, Quito, Ecuador, 160 pp.

Victor Hugo Barrera, Jeffrey Alwang, Graciela Andrango, Juan Manuel Domínguez, Luis
Escudero, Anibal Martínez, Rosendo Jácome, and Juan Arévalo. *La cadena de valor de la mora y
sus impactos en la Región Andina del Ecuador*. Instituto Nacional de Investigaciones Agropecuarias
(INIAP). Boletín Técnico No. 171, ARCOIRIS Producciones Graficas, Quito, Ecuador,
2017.

Thomas S. Walker and Jeffrey Alwang, *Improved varieties of food crops in sub-saharan 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 Hugo 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 Hugo 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 Mpfu. *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 Hugo Barrera, Luis O. 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 Mpfu. *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

George W. Norton, Jeffrey Alwang, Menale Kassie and R. Muniappan. 2019. Economic Impacts of Integrated Pest Management Practices in Developing Countries. In *Economics of Integrated Pest Management of Insects*, ed. D. Onstad and P. Crain, Boston: CABI International: 140-154.

Jose Ochoa, Corina Clements, Victor Hugo Barrera, Juan Manuel Dominguez, Mike Ellis and Jeffrey Alwang. 2016. “IPM Packages for Naranjilla—Sustainable Production in an Environmentally Fragile Region”, Chapter 9 in Rangaswamy Muniappan & E. A. Heinrichs, eds, *Integrated Pest Management of Tropical Vegetable Crops*, Dordrecht: Springer-Business.

Vanessa Carrion, Patricio Gallegos, Victor Hugo Barrera, George W. Norton and Jeffrey Alwang. 2016. “IPM technologies for potato producers in highland Ecuador”, Chapter 10 in Rangaswamy Muniappan & E. A. Heinrichs, eds, *Integrated Pest Management of Tropical Vegetable Crops*, Dordrecht: Springer-Business.

George W. Norton, Jeffrey Alwang, and Majdeddin Sayed Issa. 2016. “Impacts of IPM on Vegetable Production in the Tropics”, Chapter 14 in Rangaswamy Muniappan & E. A. Heinrichs, eds, *Integrated Pest Management of Tropical Vegetable Crops*, Dordrecht: Springer-Business.

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-Saharan 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-Saharan 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-Saharan 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-Saharan 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 Hugo 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.
- Jeffrey Alwang, Steven C. Weller, Guillermo E Sanchez, Luis Calderon, C.R. Edwards, Sarah Hamilton, Roger Williams, Mike Ellis, Carmen Suarez, Victor Hugo Barrera, Charles Crissman and George 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.
- Jeffrey Alwang, and Paul 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

- (102) Villacis-Aveiga, Alexis, Ford Ramsey, Jeffrey Alwang and Jorge Delgado. 2021. Estimating Economically Optimal Levels of Nitrogen Fertilizer in No-Tillage Continuous Corn. *Journal of Agricultural and Applied Economics*, in press.
- (101) Bernal-Galeano, Vivian, George W. Norton, David Ellis, Noel Angelin, Guy Hareau, Melinda Smale, Nelissa Jamora, Jeffrey Alwang and Willy Pradel. 2020. "Andean potato diversity conserved in the International Potato Center genebank helps develop agriculture in Uganda: the example of the variety 'Victoria'" *Food Security*, published online May 22, 2020.
- (100) Delgado, Jorge, Victor H. Barrera Mosquera, Jeffrey R. Alwang, Alexis Villacis-Aveiga, Yamil E. Cartagena Ayala, Donna Neer, Carlos Monar and Luis O. Escudero Lopez. 2020. "Potential Use of Cover Crops for Soil and Water Conservation, Nutrient Management, and Climate Change Adaptation Across the Tropics." *Advances in Agronomy*, in press.
- (99) Carrion-Yaguana, Vanessa and Jeffrey Alwang. 2020. "Promoting behavioral change using text messages: A case study of blackberry farmers in Ecuador" *Journal of Agricultural and Applied Economics*, in press.
- (98) Buck, Steven, Yoko Kusunose and Jeffrey Alwang. 2020. Re-visiting trust measurement and predicting financial decisions, *Agricultural Finance Review*, in press.
- (97) Norton, George W. and Jeffrey R. Alwang. 2020. Changes in Agricultural Extension and Implications for Farmer Adoption of New Practices, *Applied Economic Policy Perspectives*, 42(1), pp. 8-20.
- (96) Mosquera, Victor H., Jorge A. Delgado, Jeffrey R. Alwang, Luis Orlando Escudero López, Y.E. C. Ayala, J.M. D. Andrade, and R. D'Adamo. 2019. Conservation Agriculture Increases Yields and Economic Returns of Potato, Forage, and Grain Systems of the Andes. *Agronomy Journal*. 111:2747-2753. doi:10.2134/agronj2019.04.0280
- (95) Jeffrey Alwang, Victor Hugo Barrera, Graciela Andrango, Juan Manuel Dominguez, Anibal Martinez, Luis Escudero and Carlos Montufar. 2019. "Value-chains in the Andes: Upgrading for Ecuador's blackberry producers," *Journal of Agricultural Economics*, [70\(3\): 705-730](#).
- (94) Jeffrey Alwang, George W. Norton and Catherine Larochelle. 2019. "Obstacles to widespread diffusion of IPM in developing countries: Lessons from the field," *Journal of Integrated Pest Management*, Volume 10(1). <https://doi.org/10.1093/jipm/pmz008>
- (93) Corinna Clements, Jeffrey Alwang and Ramadahni Achdiawan. 2019. Value chain approaches in a stagnant industry: The case of furniture production in Jepara, Indonesia, *Bulletin of Indonesian Economic Studies*, 55(3), pp. 341-365.
- (92) Yigezu A. Yigezu, Jeffrey Alwang, M. Wakilur Rahman, M. Bazlur R. Mollah, Tamer El-Shater, Aden Aw-Hassan and Ashutosh Sarker. 2019. Is DNA fingerprinting the gold standard for estimation of adoption and impacts of improved lentil varieties? *Food Policy*, 83, pp. 48-59.
- (91) Jorge A. Delgado, Victor Hugo Barrera, Luis O. Escudero, Yamil E. Cartagenta Ayala, Jeffrey Alwang, Richard C. Stehouwer, Juan C. Arvalo, Robert D'Adamo, Juan Manuel Dominguez, Franklin Valverde & Soraya P. Alvarado. 2019. Conservation Agriculture Increases Profits in an Andean Region of South America, *Agrosystems, Geosciences & Environment*, 2:189950.
- (90) Ali Reza Oryoie and Jeffrey Alwang. 2018. School attendance and economic shocks:

- Evidence from rural Zimbabwe, *Development Southern Africa*, 35(6): 803-814.
- (89) Michael J. Guerci, George W. Norton, Malik N. Ba, Ibrahim Baoua, Jeffrey Alwang, Laouali Amadou, Oumou Moumouni, Laouali Karimoune & Rangaswamy Muniappan. 2018. Economic feasibility of an augmentative biological control industry in Niger. *Crop Protection (TSP)* 110: 34-40.
- (88) Di Zeng, Jeffrey Alwang, George W. Norton, Bekele Shiferaw & Moti Jaleta. 2018. Land ownership and technology adoption revisited: Improved maize varieties in Ethiopia. *Land Use Policy* 72: 270-279.
- (87) Jeffrey Alwang, Samy Sabry, Kamel Shideed, Atef Swelam & Habib Halila. 2018. Economic and food security benefits associated with raised-bed wheat production in Egypt. *Food Security* 10: 589–601
- (86) Catherine Larochelle, Jeffrey Alwang, Elli Travis, Victor Hugo Barrera and Juan Manuel Dominguez. 2017. Did you really get the message? Using text reminders to stimulate adoption of agricultural technologies. *Journal of Development Studies* 55(4): 548-564.
- (85) Jeffrey Alwang, Elisabetta Gotor, Graham Thiele, Guy Hareau, Moti Jaleta and Jordan Chamberlin. 2019. Pathways from research on improved staple crop germplasm to poverty reduction for smallholder farmers. *Agricultural Systems* 172: 16-27.
- (84) Ali Reza Oryoi, Jeffrey Alwang and Nicolas Tideman. 2017. Child labor and household land holding: Theory and empirical evidence from Zimbabwe, *World Development* 100:45-58
- (83) Jarrad Farris, Catherine Larochelle, Jeffrey Alwang, George W. Norton & Caleb King. 2017. Poverty Analysis Using Small Area Estimation: An Application to Conservation Agriculture in Uganda, *Agricultural Economics* 48(6): 671-681.
- (82) Di Zeng, Jeffrey Alwang, George W. Norton, Bekele Shiferaw and Moti Jaleta. 2017. Agricultural technology adoption and child nutrition: Improved maize varieties in rural Ethiopia, *Agricultural Economics*, 48(5): 573-586.
- (81) Jeffrey Alwang, Catherine Larochelle and Victor Hugo Barrera. 2017. Farm decision making and gender: Results from a randomized experiment in Ecuador, *World Development* 92:117-129.
- (80) Michael Barrowclough and Jeffrey Alwang. 2017. Farmer preferences for conservation agriculture attributes: A choice experiment from Ecuador, *Environment, Development and Sustainability* 20: 2681–2705.
- (79) Corinna Clements, Jeffrey Alwang, Victor Hugo Barrera and Juan Manuel Dominguez. 2017. Graft is good: the economic and environmental benefits of grafted naranjilla in the Andean region. *Renewable Agriculture and Food Systems* 32(4): 306 - 318
- (78) Victor Hugo Barrera, Michael Barrowclough, Juan Manuel Dominguez, Jorge A. Delgado, Richard Stehouwer, Rob Gallagher and Jeffrey Alwang. 2016. Conservation agriculture on steep slopes in the Andes: Promise and obstacles, *Journal of Soil and Water Conservation* 71(2): 91-102.

- (77) Catherine Larochelle, Jeffrey Alwang, and Nelson E. Taruvinga. 2016. Schooling achievement among rural Zimbabwean children during a period of economic turmoil, *Comparative Education Review* 60(2): 311-338.
- (76) Vanessa Carrión Yaguana, Jeffrey Alwang, George W. Norton, and Victor Hugo Barrera. 2016. Does IPM have staying power? Revisiting a potato-producing area years after formal training ended, *Journal of Agricultural Economics* 67(2): 308-323.
- (75) 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.
- (74) Quentin Stoeffler, Jeffrey Alwang, Bradford F. Mills and Nelson Taruvinga. 2016. Multidimensional poverty in crisis: Lessons from Zimbabwe, *Journal of Development Studies* 52 (3): 428-446.
- (73) Kate Vaiknoris, George W. Norton and Jeffrey Alwang. 2015. Farmer preferences for attributes of conservation agriculture in Eastern Uganda, *African Journal of Agricultural and Resource Economics* 10(2): 158-173.
- (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.
- (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): 172-183.
- (68) Luis Escudero, Jorge Delgado, Carlos Monar, Franklin Valverde, Víctor Hugo 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 Economics* 23(2): 225-256.
- (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* 5(4):1–16.

- (64) Carlos Monar, Ana Karina Saavedra, Luis Escudero, Jorge A. Delgado, Jeffrey Alwang, Victor Hugo 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 Jeffrey 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* 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 Hugo 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 Hugo 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) 51: 3-6.
- (54) Michael Castelhana, Jeffrey Alwang, Nicolai Kuminoff and Ruben 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) 51: 39-46.
- (53) Nadezda Amaya and Jeffrey 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) 51: 63-72.

- (52) Catherine Larochelle, Jeffrey Alwang and Ruben Botello. 2012. Análisis de la eficiencia en la producción de papa, *Revista de Agricultura* (Bolivia) 51: 27-38.
- (51) John Adam Sparger, Jeffrey Alwang, George W. Norton, Mauricio Rivera and Donald 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) Nadezda Amaya and Jeffrey 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.
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- Alwang, J. H. G. P. Jansen, P. B. Siegel and F. Pichon 2005. El espacio geográfico, los activos, los medios de vida y el bienestar en las zonas rurales de CentroAmerica: Evidencia empírica de Guatemala, Honduras y Nicaragua. IFPRI Development Strategy and Governance Division, Working Paper # 26, Washington, DC.

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TEACHING AND ADVISING

Theses and dissertations chaired

- Alexis Villacis-Aveiga. 2020. Three essays on economic development. PhD. First position: Assistant Professor, Applied Economics and Agribusiness, Arizona State University.
- Zhen Cheng, 2019, PhD Agricultural and Applied Economics, Virginia Tech. First position: Assistant Professor, Chengdu University.
- Zeya Zhang, 2020 (defending in December) PhD Agricultural and Applied Economics, Virginia Tech.
- Stephanie Myrick. 2016. An Economic Impact Assessment of Cooperation-88 Potato Variety in the Yunnan Province of China. MS Agricultural and Applied Economics, Virginia Tech
- Corinna Clements. 2016. Assessing the Impact of the Jepará Furniture Value Chain Project. MS Agricultural and Applied Economics, Virginia Tech.
- Catherine O'Donnell, 2016. Peruvian Food Insecurity in The Face of Recurrent Natural Disasters: A Two-Step Adoption Analysis for Improved Potato Varieties. MS Agricultural and Applied Economics, Virginia Tech.
- Ali Reza Oiriyo. 2016. Essays on Child Labor and Inequality Analysis, PhD Economics, Virginia Tech (co-chair Nic Tideman). First position: Assistant professor, University of Tehran.
- Vanessa Carrion. 2016. Three essays on development economics. PhD, Agricultural and Applied Economics, Virginia Tech. First position: Analyst, Commission on Electoral Integrity, Ecuador; Assistant professor, Catholic University, Ecuador.
- Michael Barrowclough. 2016. Three essays evaluating tradeoffs in agricultural decision making. PhD, Agricultural and Applied Economics, Virginia Tech. First position: Assistant Professor, Central Illinois University.
- Jarrad Farris. 2015. Assessing the Potential of a Locally Adapted Conservation Agriculture Production System to Reduce Rural Poverty in Uganda's Tororo District. M.S., Agricultural and Applied Economics, Virginia Tech. (co-chair George Norton). First position: Graduate student, Michigan State University.
- Elli Travis. 2015. The Impact of Text Messages on Adoption and Knowledge of Integrated Pest Management Practices: A Randomized Control Trial Study of Potato Farmers in Carchi, Ecuador. M.S., Agricultural and Applied Economics, Virginia Tech. (co-chair Catherine Larochelle). First position: Office of Economic Development, Virginia Tech.
- Eric Asare. 2015. MS Economics, non-thesis option. First position: Graduate student, Texas Tech University.
- Di Zeng. 2014. Three Essays on Adoption and Impacts of Improved Maize Varieties in Ethiopia. PhD. Agricultural and Applied Economics, Virginia Tech. First position: Post-doc, University of Arkansas, current position Assistant professor, University of Adalaide.

- 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. First position: Graduate student, University of Wisconsin.
- Nadezda Amaya. 2014. M.S. Economics, Virginia Tech. First position: Gender specialist, International Center for Maize and Wheat Research (CIMMYT, Mexico City, Mexico).
- 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.
- Sally Brady. 2013. Non-thesis option, M.S., Agricultural and Applied Economics, Virginia Tech.
- Nick Zetts. 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.
- William Glen Secor. 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. (co-chair George Norton). First position: Graduate student, University of Minnesota.
- Amy D. Buckmaster. 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. First position: Analyst, Auto Zone, Roanoke, VA.
- Catherine Larochelle. 2011. Three essays on productivity and risk, marketing decisions, and changes in well-being over time. PhD Dissertation, Economics, Virginia Tech. First position: Assistant professor, Virginia Tech.
- Lindsay Hall. 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. First position: Law school, George Washington University.
- Nadezda Amaya. Major Advisor: 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. First position: Graduate student, Virginia Tech.
- Robert Andrade. 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. First position: Impact assessment leader, Center for research on tropical agriculture (CIAT, Cali, Colombia).
- Michael Castelhana. 2008. Staple Crop Diversity and Risk Mitigation- Potatoes in Bolivia. M.S. Thesis, Agricultural and Applied Economics, Virginia Tech. First position: Graduate student, Cal Davis.

- Aissatou Ouedraogo. 2008. Reaching the Chronic Poor and Food Insecure after a Disaster: The Case of Niger. M.S. Thesis, Agricultural and Applied Economics, Virginia Tech. First position: JPAL, Mali.
- Carlos Elias. 2008. Balancing competing development objectives in the Trifinio region of Central America: economic and social development and environmental protection. PhD Dissertation, Economics, Virginia Tech. First position: Owner, consulting firm
- Katherine Eriksson. 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. First position: Graduate student, UCLA, current position Associate professor, Department of Economics, University of California, Davis.
- Steven Buck. 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. First position: Graduate student, University of California, Berkeley, current position Assistant Professor, University of Kentucky.
- 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. First position: Academic advisor, Universidad de San Francisco, Ecuador.
- 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. First position: Non-profit, North Carolina.
- 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. First position: Statistical analyst, Chase Econometrics.
- 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. First position: Post-doc, IFPRI, current position, Senior Economist, World Bank.
- 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. First position: Peace Corps Volunteer, Tunisia.
- Shangguan Zhaoyun. 2000. "Food Stamp Participation and Welfare in the Non-Metropolitan United States." M.S. Thesis, Agricultural and Applied Economics, Virginia Tech. First position: Graduate student, University of Connecticut.
- Rodwell Chingwuo, 2000. MS. Non-thesis option.

- Godfrey Gibbison. 1999. "Mother's Marital Status and the Educational Attainment of Children in Jamaica." Ph.D. Dissertation. First position: Assistant professor, Caribbean University, Kingston, current position: Provost, College of Charleston, Charleston, SC.
- 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. First position: Consultant, Winrock.
- Katherine Niles. 1996. Pinpointing Production Constraints Faced by Female-Headed Households in Rural Malawi. M.S. Thesis. First position: Peace Corps Volunteer, Guatemala, current position: Associate Professor, Department of Economics, University of California, Davis.
- Anna M. Cox. 1996. Proactive Industrial Targeting: An Application of the Analytical Hierarchy Process. M.S. Thesis. First position: Research analyst, University of Missouri.
- Thomas M. Bailey. 1996. Analysis of Firm Desirability Among Virginia's Economic Development Directors. M.S. Thesis. First position: Graduate student, University of Kentucky.
- David Novak. 1996. Meeting State Waste Stream Reduction Mandates Through Recycling: Examining Residential Waste Disposal Behavior in Rural Virginia. M.S. Thesis. First position: Graduate student, Virginia Tech.
- Janet Hunter. 1995. An Analysis of the Ability of Virginia's Water Systems to Finance System Improvements. M.S. Thesis. First position: Chancellor, Arizona Community College.
- Ari Mwachofi. 1995. Comparative Study of Rural Virginia Farm and Non Farm Household Labor Supply. Ph.D. Dissertation. First position: Assistant professor, University of Arkansas.
- Jaime Ortiz. 1993. The Effects of Agricultural Price Policies on the Funding of Agricultural Research in Chile, 1960-1988. Ph.D. Dissertation. First position: Consultant, ETC Ecuador.
- Brady J. Deaton, Jr. 1993. The Influence of Communications Infrastructure on Agricultural Growth. M.S. Department of Agricultural and Applied Economics, Virginia Tech. First position: Peace Corps Volunteer, Swaziland. Current position: Professor, Department of Agricultural Economics, Guelph University.
- Joseph C. Obidiegwu. 1992. Distribution of Primary Care Physicians in Rural Virginia. M.S. Thesis. First position: Tennis pro, Ft. Lauderdale.
- 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. First position: Graduate student, Virginia Tech.
- Julio A. Carcamo. 1992. Sustainable Development in Honduras: Economic Evaluation of Soil Conservation Practices. M.S. Thesis. First position: Analyst, Sierra Club, Honduras.
- Paul B. Siegel. 1992. The Relationship Between Changing Economic Structure and Performance: Diversification, Diversity, Growth, Stability, and Distributional Impacts. Ph.D. Dissertation. First position: Assistant professor, University of Tennessee.

Huilin Huang. 1991. Modelling Structural Change in the U.S. Demand for Meat. M.S. Thesis. First position: Research analyst, Asian Vegetable Development Research Center (AVDRC).