

CATHERINE LAROCHELLE

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EDUCATION

Ph.D., Agricultural and Applied Economics, Virginia Tech, 2011
Graduate Certificate, Future Professoriate, Virginia Tech, 2011
M.S., Resource Economics and Policy, University of Maine, 2005
B.S., Agricultural Economics, Laval University, Quebec, Canada, 2003

ACADEMIC EXPERIENCES

Assistant Professor, Department of Agricultural and Applied Economics, Virginia Tech, December 2015-Present.

Research Assistant Professor, Department of Agricultural and Applied Economics, Virginia Tech, December 2013-December 2015

Post-Doctoral Research Associate, Department of Agricultural and Applied Economics, Virginia Tech, August 2011-December 2013.

PROFESSIONAL EXPERIENCES

Consultant, HarvestPlus, June 2012-July 2013. Conduct statistical analysis, writing up of the bean varietal adoption report, and development of GIS maps for bean and sweet potato varietal choice and production.

Consultant, World Bank, January to July 2011. Supported ZimStat for the Analysis of the 2007/08 Incomes, Consumption, and Expenditure Survey Project. Conducted data processing and poverty analysis.

Canadian International Development Agency's International Youth Internship Program, Société de Coopération pour le Développement International (SOCODEVI), Lima, Peru, August 2005-March 2006. Provided support to four agricultural cooperative presidents on marketing, accounting, and organizational aspects. Trained cooperative employees and members on fair-trade and organic certifications.

EXTERNAL FUNDING

- “Building Analytical and Global Competencies through Agricultural Research Internships in Ecuador” (with with J. Alwang, G.W. Norton, S. Chen, and K. White), 1/1/2019 to 12/31/203. Funded by National Institute of Food and Agriculture (NIFA), \$ 414,585 (credit: 20%).
- “Impact assessment of technological innovation and dissemination under the Consortium for Unfavorable Rice Environments in Southeast Asia” (with J. Alwang, G.W. Norton, B. Mills, R. Labarta, and R. Andrade), 2017-2019. Funded by International Fund for Agricultural Development, \$495,000 (credit: 20%).
- “Adoption and Diffusion of C88 Potato Variety in China: Spatial Variability of Productivity Gains and Cost Savings and Value Chain Development” (with G. Hareau, K. Forges, J. Xie, J. Alwang, and G.W. Norton), 2015-2017. Funded by CGIAR’s Standing Panel on Impact Assessment, \$200,000 (Virginia Tech: \$52,845; credit: 35%).
- “Household demand for legumes in Ethiopia and Nigeria”, 2015-2016. Funded by ICRISAT and IITA, \$28,600 (credit: 100%).
- “Estimating household demand for millet and sorghum in Niger and Nigeria”, 2015. Funded by USAID in partnership with ICRISAT, \$29,000 (credit: 100%).
- “Assessing impacts of adoption of high iron bean varieties and their impact on iron intakes and other livelihood outcomes in Rwanda” (with R. Labarta, E. Katungi, S. Beebe, D. Asare-Marfo, E. Birol, M. Moursi, A. Murekezi, J. Alwang, and G.W. Norton), 2014-2016. Funded by CGIAR’s Standing Panel on Impact Assessment, \$200,000 (Virginia Tech: \$98,517; credit: 40%).
- “Assessing the adoption high iron bean varieties and their impact on iron intakes and other livelihood outcomes in Rwanda”, 2014-2015. Funded by HarvestPlus, \$17,952 (credit: 100%).
- “Disaggregated analysis of bean consumption demand and contribution to household food security in Uganda and Tanzania”, 2014-2015. Funded by CIAT, \$66,528 (credit: 100%).
- “Borlaug Higher Education for Agricultural Research and Development (BHEARD)-PhD Degree Training of Students from Mozambique” (with G.W. Norton and K. Mallikarjunan), 2014-2016. Funded by USAID, \$209,637 (credit: 60%).
- “Strengthening Impact Assessment in the CGIAR: New partnerships for building impact assessment capacity” (with G.W. Norton, J. Alwang, and B. Mills), 2014-2015. Funded by CGIAR’s Standing Panel on Impact Assessment, \$286,122 (credit: 20%).

“Varietal Adoption of Beans and Sweet Potatoes in Rwanda and Uganda” (with J. Alwang), 2013-2014. Funded by HarvestPlus, \$60,803 (credit: 60%).

PEER-REVIEWED PUBLICATIONS

(‡Denotes graduate student at time of research)

Larochelle, C., Alwang, J., ‡Travis, E., Barrera, V.H., & Dominguez, J.M. (2019). Did you really get the message? Using text reminders to stimulate adoption of agricultural technologies. *The Journal of Development Studies*, 55(4), 548-564. ([Link](#))

Katungi, E., **Larochelle, C.**, Mugabo, J., & Buruchara, R. (2018). Climbing bean as a solution to increase productivity in land-constrained environments: Evidence from Rwanda. *Outlook on Agriculture*. ([Link](#))

‡Vaiknoras, K., **Larochelle, C.**, Birol, E., Asare-Marfo, D., & Herrington, C. (2018). Promoting rapid and sustained adoption of biofortified crops: What we learned from iron-biofortified bean delivery approaches in Rwanda. *Food Policy*. ([Link](#))

Katungi, E., **Larochelle, C.**, Mugabo, J., & Buruchara, R. (2018). The effect of climbing bean adoption on the welfare of smallholder common bean growers in Rwanda. *Food Security*, 10(1), 61-79. ([Link](#))

‡Farris, J., **Larochelle, C.**, Alwang, J., Norton, G.W., & King, C. (2017). Poverty Analysis Using Small Area Estimation: An Application to Conservation Agriculture in Uganda. *Agricultural Economics*, 48(6), 671-681. ([Link](#))

Alwang, J., **Larochelle, C.**, & Barrera, V. (2017). Farm Decision Making and Gender: Results from a Randomized Experiment in Ecuador. *World Development*, 92, 177-129. ([Link](#))

Larochelle, C., Alwang, J., & Taruvinga, N. (2016). Schooling Achievement among Rural Zimbabwean Children during a Period of Economic Turmoil. *Comparative Education Review*, 60(2), 311-338. ([Link](#))

Larochelle, C. & Alwang, J. (2015). Explaining Marketing Strategies among Bolivian Potato Farmers. *Quarterly Journal of International Agriculture*, 54(3), 285-308. ([Link](#))

Larochelle, C., Alwang, J., & Taruvinga, N. (2014). Inter-temporal Changes in Well-being During Conditions of Hyperinflation: Evidence from Zimbabwe. *Journal of African Economies*, 23(2), 225-256. ([Link](#))

Larochelle, C. & Alwang, J. (2013). The Role of Risk Mitigation in Production Efficiency: A Case Study of Potato Cultivation in the Bolivian Andes. *Journal of Agricultural Economics*, 64, 363-381. ([Link](#))

Larochelle, C., Alwang, J., & Botello R. (2012). Análisis de la eficiencia en la producción de papa. *Revista de Agricultura (BOLIVIA)*, 51 (July), 27-37.

BOOK CHAPTER

Larochelle, C., Alwang, J., Norton, G.W., Katungi, E. & Labarta, R.A. (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.), *Crop Improvement, Adoption and Impact of Improved Varieties in Food crops in Sub-Saharan Africa*. CABI Publishing. ([Link](#))

SELECTED TECHNICAL REPORTS AND OTHER PUBLICATIONS

(‡ Denotes graduate student at time of research)

Larochelle, C., Katungi, E. & ‡Cheng, Z. (2017). Pulse consumption and demand by different population subgroups in Uganda and Tanzania. Prepared for the International Center for Tropical Agriculture (CIAT). Cali, Columbia. ([Link](#))

Asare-Marfo, D., Herrington, C., Birachi, E., Birol, E., Cook, K., Diressie, M.T., Dusenge, L., Funes, J., Katsvairo, Li., Katungi, E., Labarta, R., **Larochelle, C.,** Lividini, K., Moursi, M., Mulambu, J., Murekezi, A., Musoni, A., Nkundimana, JA., ‡Vaiknoras, K., & Zeller, M. (2016). Assessing the adoption of high-iron bean varieties and their impact on iron intakes and other livelihood outcomes in Rwanda: Main survey report. Washington, D.C.: International Food Policy Research Institute (IFPRI). ([Link](#))

‡Ning, X., & **Larochelle C.** (2016). Estimating household demand for chickpea in Ethiopia and cowpea in Nigeria using a two-stage censored food demand system. Prepared for Research Program on Grain Legumes of the CGIAR.

Larochelle, C., Asare-Marfo, D., Birol, E. & Alwang, J. (2016). Assessing the Adoption of Improved Bean Varieties in Rwanda and the Role of Varietal Attributes in Adoption Decisions. HarvestPlus Working Paper No. 25. Washington, D.C.: International Food Policy Research Institute (IFPRI). ([Link](#))

‡Cheng, Z. & **Larochelle, C.** (2016). Estimating household demand for millet and sorghum in Niger and Nigeria. ICRISAT Socioeconomics Discussion Paper Series No. 39. Nairobi, Kenya. ([Link](#))

Asare-Marfo, D., Herrington, C., Alwang, J., Birachi, E., Birol, E., Diressie, M.T., Dusenge, L., Funes, J., Katungi, E., Labarta, R., **Larochelle, C.,** Katsvairo, L., Lividini, K., Lubowa, A., Moursi, M., Mulambu, J., Murekezi, A., Musoni, A., d'Amour Nkundimana, J., Oparinde, A., ‡Vaiknoras, K., Zeller, M. (2016). Assessing the Adoption of High Iron Bean Varieties and Their Impact on Iron Intakes and Other

Livelihood Outcomes in Rwanda. Listing Exercise Report. IFPRI, Washington, DC, USA, 43 pp. ([Link](#))

‡Asare, E., **Larochelle, C.** & Alwang, J. (2015). Explaining the Adoption of Improved Bean Varieties in Uganda. Prepared for HarvestPlus. Washington DC, USA.

Larochelle, C., Alwang, J., Norton, G.W., Katungi, E. & Labarta, R.A. (2014). Impact of Bean Research in Rwanda and Uganda. Impact Brief No. 46, Independent Science and Partnership Council (ISPC), Standing Panel on Impact Assessment (SPIA). ([Link](#))

Larochelle, C. (2014). Sweetpotato in Uganda: Adoption of Improved Varieties and Marketing Decisions. Prepared for HarvestPlus. Washington DC, USA.

Alwang J. & **Larochelle, C.** (2011). Poverty in Zimbabwe: An Assessment Using the 2007/8 ICES. Report to the Central Statistical Office and Government of Zimbabwe. 120 pp.

GRADUATE STUDENT ADVISING

Chair or Co-Chair

1. Kate Vaiknoras, Ph.D. Dissertation title: TBD. In progress.
2. Catherine O'Donnell, M.S. Thesis title: "Peruvian food insecurity in the face of recurrent natural disasters: A two-step adoption analysis for improved potato varieties". Graduated 2017.
3. Stephanie Myrick, M.S. Thesis title: "An economic impact assessment of Cooperation-88 potato variety in the Yunnan province of China". Graduated in 2016.
4. Elli Travis, M.S. Thesis title: "The impact of text messages on adoption and knowledge of integrated pest management practices: A randomized control trial study of potato farmer in Carchi, Ecuador". Graduated in 2015.

Committee member

1. Farhanaz Sharmin, Ph.D. Dissertation title: TBD. In progress.
2. Zhen Cheng, Ph.D. Dissertation title: TBD. In progress.
3. Muntasir Hasan, M.S. Thesis title: "Factors affecting integrated pest management adoption and pesticide use in Kenyan Vegetable Farmers". Graduated in 2017.
4. Vanessa Carrion, Ph.D. Dissertation title: "Agricultural technology and economic development: Three essays on technology adoption and inequality". Graduated in 2016.
5. Jarrad Farris, M.S. Thesis title: "Assessing the potential of a locally adapted conservation agriculture production system to reduce rural poverty in Uganda's Tororo District". Graduated in 2015.

TEACHING

Current:

AAEC 3004: Agricultural Production and Consumption Economics (every year)

AAEC 3204: International Agricultural Development and Trade (every year)

Past:

AAEC 4344: Sustainable Development Economics

GUEST LECTURES

CSES 2984: Agriculture, Global Food Security and Health (Fall 2016, Fall 2017, Fall 2018)

UAP 4214: Gender, Environment and International Development (Spring 2016, Spring 2018)

CSES 4864: Capstone: Crop & Soil Science (Fall, 2015)

ALS 4244: Global Food Security and Health Capstone (Fall, 2018)

SELECTED PRESENTATIONS

(*Denotes Presenting Author, ‡Denotes graduate student at time of research)

*‡Vaiknoras, K., **Larochele, C.** “The impact of biofortified iron bean adoption on productivity and bean consumption, production, and sales.” Selected presentation at the 2018 Agricultural and Applied Economics Association Annual Meeting. Washington, D.C., August, 6, 2018. ([Link](#)).

*‡Vaiknoras, K., **Larochele, C.** “The impact of biofortified iron bean adoption on productivity and bean consumption, production, and sales.” Contributed paper at the 30th International Conference of Agricultural Economists. Vancouver, Canada, July 31, 2018.

‡Vaiknoras, K., ***Larochele, C.** “Promoting adoption and measuring impacts of iron-biofortified bean adoption in Rwanda.” Invited presentation in the Department of Agricultural Economics & Agribusiness Management, Egerton University. Kenya, June 18, 2018.

Pradel, W., Haureau, G. ‡Myrick, S., **Larochele, C.**, *Alwang, J., Li, C., Qin, J., ‡Cheng, Z., Suarez, V. “Adoption and impacts of Cooperation 88 in Yunnan, China: a multi-dimensional analysis.” Selected oral presentation at the 10th World Potato Congress. Cuzco, Peru, May 28, 2018.

*Pradel, W., Suarez, V., Hareau, G., Quintanilla, L., **Larochele, C.**, ‡O’Donnell, C., Alwang, J. “Improved potato varieties in the Center of Origin (Peru): Adoption determinants and impacts. Selected poster at the 10th World Potato Congress. Cuzco, Peru, May 28, 2018.

*‡Vaiknoras, K., **Larochele, C.**, Birol, E, Asare-Marfo, D., & Herrington, C. “The Roles of Formal and Informal Delivery Approaches in Achieving Fast and Sustained

Adoption of Biofortified Crops: Learnings from the Iron Bean Delivery Approaches in Rwanda.” Selected presentation at the Agricultural and Applied Economics Association Annual Meeting. Chicago, IL, July 31, 2017. ([Link](#))

*‡Cheng, Z. & **Larochelle, C.** “Demand for staple foods in Niger and Nigeria: A three-stage approach.” Selected presentation at the Agricultural and Applied Economics Association Annual Meeting. Chicago, IL, August 1, 2017. ([Link](#))

Larochelle, C., *Alwang, J., & ‡Travis, E. “Did you really get the message? Using text reminders to stimulate adoption of agricultural technologies.” Invited presentation at South China Agricultural University. Guangzhou, China, February 28, 2017.

***Larochelle, C.**, Katungi, E., & ‡Cheng, Z. “Household consumption and demand for bean in Uganda: Determinants and implications for nutrition security.” Selected presentation at the 5th International Conference of the African Association of Agricultural Economists. Addis Ababa, Ethiopia, September 24, 2016. ([Link](#))

*Katungi, E., **Larochelle, C.**, Mugabo, J., & Buruchara, R. “Estimating the impact of climbing bean adoption on bean productivity in Rwanda.” Selected presentation at the 5th International Conference of the African Association of Agricultural Economists. Addis Ababa, Ethiopia, September 24, 2016. ([Link](#))

***Larochelle, C.**, Alwang, J., & ‡Travis, E. “Did you really get the message? Using text reminders to stimulate adoption of agricultural technologies.” Selected presentation at the Agricultural and Applied Economics Association Annual Meeting. Boston, MA, August 2, 2016. ([Link](#))

‡O’Donnell, C., Pradel, W., Hareau, G., Quintanilla, L., **Larochelle, C.**, & *Alwang, J. “Impacts of CIP potato variety development on food security in highland Peru.” Presentation at the track session on “Agricultural productivity, nutrition and food security in Latin America”. Agricultural and Applied Economics Association Annual Meeting. Boston, MA, August 2, 2016.

*Alwang, J., **Larochelle, C.** & Barrera, V. “Farm decision making and gender: Results from a randomized experiment in Ecuador”. Invited presentation at the conference on Facing New Conditions and Challenges: The Agricultural Development in USA and China. South China Agricultural University, Guangzhou, China, July 8, 2016.

Larochelle, C., & *Katungi, E. “Household consumption demand for common bean in Uganda.” Selected poster at the Joint Pan-African Grain Legume and World Cowpea Conference. Livingstone, Zambia, March 1, 2016.

*Katungi, E., **Larochelle, C.**, Mugabo, J., & Buruchara, R. “The impact of climbing bean on welfare of smallholder common bean growers in Rwanda.” Selected presentation at the Joint Pan-African Grain Legume and World Cowpea Conference. Livingstone, Zambia, February, 29, 2016.

- ‡Carrion, V., ‡Travis, E., Alwang, J., **Larochelle, C.**, & *Norton, G.W. “Impacts of text messages on adoption of integrated pest management in Ecuador”. Presentation at the annual research symposium of the Impact Analyses and Decision Strategies for Agricultural Research. Tampa Bay, FL, February 26, 2016.
- *Katungi E., & **Larochelle, C.** “The impact of climbing bean adoption on the welfare of smallholder common bean growers in Rwanda.” Selected presentation at International Conference on Food in the Bio-based Economy; Sustainable Provision and Access. Wageningen, Netherlands, 28 May, 2015.
- ***Larochelle, C.** & Alwang, J. “Impact of improved bean varieties on food security in Rwanda.” Selected presentation at the Agricultural and Applied Economics Association Annual Meeting. Minneapolis, MN, July 28 2014. ([Link](#))
- ***Larochelle, C.** “Determinants of Bean Varietal Adoption and its Ex-Post Impacts on Food Security in Rural Rwanda.” Invited presentation at IFPRI Brown Bag Seminar. Washington DC, June 11, 2013.
- ***Larochelle, C.** and J. Alwang. “Ex-Post Impacts of Adopting Improved Bean Varieties on Income and Food Security in Rwanda and Uganda.” Invited presentation at Department of Agricultural and Applied Economics, Research Seminar series. Virginia Tech, Blacksburg, VA, March 8, 2013.
- ***Larochelle, C.**, E. Katungi* and J. Alwang. “Socio-Economic Impacts of Bean Research and Extension in Eastern Africa: A case study of Rwanda and Uganda.” Invited presentation at International Center for Tropical Agriculture, Research Seminar. Kampala, Uganda, March 25, 2013.
- ***Larochelle, C.**, J. Alwang, G.W. Norton, M. Capelli, E. Katungi, R. Andrade, R. Labarta, and S. Wambugu. “Assessing the impact of improved varieties in Rwanda and Uganda.” Invited presentation at a workshop on “Measuring Poverty Impacts of New Varieties in Africa” organized by the CGIAR Standing Panel on Impact Assessment and the Bill and Melinda Gates Foundation. Rome, Italy, November 9, 2012.
- ***Larochelle, C.** and J. Alwang. “Market participation decisions and market choice.” Selected poster at the International Association of Agricultural Economists Triennial Conference. Foz do Iguaçu, Brazil, August 20, 2012. ([Link](#))
- ***Larochelle, C.** and J. Alwang. “Schooling achievement amongst Zimbabwean children during a period of economic chaos, 2001-07/8.” Selected presentation at the Agricultural and Applied Economics Association Annual Meeting. Seattle, WA, August 14, 2012. ([Link](#))
- ***Larochelle, C.** and J. Alwang. “Linkages between environment, risk mitigation, and efficiency in potato production in Bolivia.” Selected presentation at the Northeastern

Agricultural and Resource Economics Association Annual Meeting. Atlantic City, NJ, June 14, 2010.

Larochelle, C. and *Dalton, J.T. “Transient Health Shocks and Agricultural Labor Demand in Rice Producing Households in Mali.” Selected presentation at the International Association of Agricultural Economists Triennial Conference. Queensland, Australia, August 18, 2006. ([Link](#))

HONORS AND AWARDS

- Scholar of the Week, Virginia Tech, Week of May 12, 2014.
- 2011 Outstanding Dissertation Award, Social Sciences, Business, Education, and Humanities Category, Virginia Tech, 2012.
- Graduate Student Association Travel Award, Virginia Tech, May 2010
- Doctoral Research Scholarship, Fonds de Recherche sur la Nature et les Technologies, Québec, Canada, May 2008-August 2009
- Scholarship, Laval University, Quebec Dairy Producers Association, 2003
- Scholarship, Laval University, Canadian Exchange Program (CANEX), 2002
- Scholarship, Laval University, Research Centre in Horticulture, 2002
- Distinction for outstanding academic performance, Laval University, Agricultural Economics, 2002

SERVICES ACTIVITIES

Services to Virginia Tech and the College of Agriculture and Life Sciences

1. Officer, College of Agriculture and Life Sciences Faculty Association, June 2014-Present.
2. Member, Ad Hoc committee for the development of a pathway minor in Global Food Security and Health, June 2016-Present.
3. Member, College of Agriculture and Life Sciences Curriculum Committee, June 2016-June 2018.
4. Member, 5-years review committee of the Head of the Department of Agricultural, Leadership, and Community Education, Spring/Summer 2017.
5. Invited participant, ERA/VT capacity building workshop on scientific writing, Saly, Senegal, May 9-12, 2017.
6. Reviewer for Graduate Research Symposium, Virginia Tech, 2009.

Departmental Services

1. Member, Diversity and Inclusion committee, August 2018-Present
2. Member, Research seminar committee, June 2016-Present
3. Member, Undergraduate curriculum committee, June 2016-August 2018
4. Member, Search committee for position of assistant professor of agricultural trade and policy, Spring 2018.

Professional association memberships

1. Member, Agricultural and Applied Economics Association (AAEA)
2. Member, International Association of Agricultural Economists (IAAE)
3. Member, Agricultural Economics Society (AES)
4. Member, African Association of Agricultural Economists (AAAE)

Services to professional associations

1. Abstract Reviewer, selected presentations for the thematic session “Trends in potato consumption and market” of the 10th World Potato Congress.
2. Abstract Reviewer, selected presentations for the International Development section of the 2017 AAEA Annual Meeting.
3. Discussant remarks on the papers presented at the track session on “Gender and Generation: Intrahousehold Perspectives on Technology Adoption in the West Africa Sahel.” Agricultural and Applied Economics Association Annual Meeting. Boston, MA, August 2, 2016.
4. Reviewer, contributed papers for the 2016 international conference of the AAEA.
5. Member of the Selected Presentations Committee for the 2016 AAEA Annual Meeting. Role: Topic Leader for the International Development section.
6. Abstract Reviewer, selected presentations for the Productivity Analysis & Emerging Technologies section of the 2016 AAEA Annual Meeting.
7. Member of the Selected Presentations Committee for the 2015 AAEA Annual Meeting. Role: Topic Leader for the International Development section.
8. Discussant remarks on the papers presented at the track session on “Adaptation to and Mitigation of Climate Change: The Potential Role of Conservation Agriculture in Developing Countries.” Agricultural and Applied Economics Association Annual Meeting. Washington DC, August 6, 2013.
9. Reviewer, selected paper for the 2012 triennial conference of the IAAE.

Peer-reviewed journal referee services:

Agricultural Economics, Food Security, Feminist Economics, Review of Economics of the Household, Review of Development Economics, The European Journal of Development Research, Water, Agricultural and Food Economics, Quarterly Journal of International Agriculture, The Journal of Agricultural Education and Extension, African Journal of Agricultural Research (2), HarvestPlus Working Papers (2), and International Potato Center Working Papers (2).