

Caitlin Lowe Herrington

Doctoral Candidate

Department of Agricultural, Food, and Resource Economics

Michigan State University

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EDUCATION

PhD, Agricultural, Food, and Resource Economics **Expected: 2024**

Michigan State University – East Lansing, MI

- Dissertation: Estimating Demand via Experiments for Agricultural-Nutrition Interventions
- Committee: Drs. Mywish K. Maredia (Co-Chair), David L. Ortega (Co-Chair), Nicole Mason-Wardell, and Eduardo Nakasone

MS, Agricultural Economics **2013**

Kansas State University – Manhattan, KS

- Thesis: Determinants of Maize Marketing Decisions for Smallholder Farm Households in Tanzania
- Committee: Drs. Timothy Dalton (Chair), Ted Schroeder, and Vincent Amanor-Boadu

BS, Agricultural Business Management; BS, Plant Biology **2011**

North Carolina State University – Raleigh, NC

- Minor: Economics
- Graduated with Honors: Summa Cum Laude

PROFESSIONAL RESEARCH EXPERIENCE

Michigan State University – East Lansing, MI

Graduate Research Assistant 2019 –Present

International Food Policy Research Institute (IFPRI), HarvestPlus Program – Washington, DC

Research Analyst II 2017-2019

Research Analyst I 2014-2017

Opportunity International – Chicago, IL

Research Associate 2014

International Development Intern 2013

Kansas State University - Manhattan, KS

Graduate Research Assistant, Kansas 2011-2013

AWARDS AND FELLOWSHIPS

- MSU College of Agriculture and Natural Resources Travel Award, 2023 (\$800)
- MSU Council of Graduate Students Conference Travel Award, 2023 (\$300)
- Winner of the MSU AFRE Graduate Research Symposium Award for best paper and presentation, 2022
- MSU African Studies Center, Africanist Fellowship, 2022 (\$1,000)
- MSU AFRE Alan A. Schmid Fellowship, 2022 (\$6,500)
- MSU Thom Jayne Dissertation Enhancement Fellowship, 2021-2022 (\$2,500)
- University Distinguished Fellow, Michigan State University Graduate School, 2019-2024 (\$68,000)
- Honorable Mention for the Nils Westermarck Prize, 30th International Conference for Agricultural Economists, 2018
- Alumni Spotlight, National FFA New Horizons Magazine, 2016
- Timothy R. Donoghue Graduate Scholar, Kansas State University, 2011-2012 (\$6,000)
- NCSU Dept. of Agricultural, Resource, and Economics Outstanding Senior, 2011
- Phi Kappa Phi Honor Society, Spring 2010
- Phi Beta Kappa Honor Society, Fall 2010
- Caldwell Fellow, North Carolina State University, 2008-2011 (\$20,000)
- American FFA Degree Recipient, National FFA Organization, 2008
- R. Flake Shaw Scholar, North Carolina Farm Bureau Federation, 2007-2011 (\$12,000)

PEER REVIEWED PUBLICATIONS

1. **Herrington, C. L.**, Maredia, M. K., Ortega, D. L., Taleon, V., Birol, E., Sarkar, Md. A. R., & Rahaman, Md. S. (2023). "Rural Bangladeshi Consumers' (Un)Willingness to Pay for Low-milled Rice: Implications for Zinc Biofortification." *Agricultural Economics*, 54:5-22. <https://doi.org/10.1111/agec.12739> (Essay 1 of dissertation)
2. Birol E, Foley J, **Herrington C**, et al. (2022) "Transforming Nigerian Food Systems Through Their Backbones: Lessons from a Decade of Staple Crop Biofortification Programing." *Food and Nutrition Bulletin*. <https://doi.org/10.1177/03795721221117361>
3. Vaiknoras, K., Larochelle, C., Birol, E., Asare-Marfo, D. and **C. Herrington**. (2019) "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." *Food Policy*, 83:271-284, <https://doi.org/10.1016/j.foodpol.2018.11.003>
4. Mulambu J., Andersson M., Palenberg M., Pfeiffer W., Saltzman A., Birol E., Oparinde A., Boy E., **Herrington C.**, Asare-Marfo D., Lubobo A., Mukankusi C. and S Nkalubo. "Iron Beans in Rwanda: Crop Development and Delivery Experience." *African Journal of Food, Agriculture, Nutrition and Development* 17, no. 2 (2017): 12026-12050. <http://www.bioline.org.br/pdf?nd17038>

PAPERS IN PROGRESS AND UNDER REVIEW

1. Goeb, J., Maredia, M., and **C. Herrington**. "Extensions in times of crisis: A fall armyworm information intervention in Myanmar during COVID-19 and a coup." (Under review at *Journal of Development Economics*)
2. **Herrington, C.**, Maredia, M., Ortega, D., Reyes, B. "Aspirations and farmer willingness-to-pay for biofortified bean seed: a field experiment in rural Zimbabwe." (*Essay 2 of dissertation; Analysis and manuscript in preparation*)
3. **Herrington, C.**, Ortega, D., Maredia, M., Reyes, B "Does bid quantity matter? Comparing farmer willingness-to-pay for specified vs open-ended quantities of biofortified bean and maize seed in a non-hypothetical field experiment" (*Essay 3 of dissertation; Analysis and manuscript in preparation*)
4. **Herrington, C.**, Birol, E. and K. Lividini. "Global Targeting for Biofortified Crop Interventions." (*Manuscript in preparation*).

STUDIES IN PROGRESS

1. Maredia, M., Ortega, D., **Herrington, C.** "Economic cost benefit analysis of control methods for Coffee Leaf Rust Disease in Hawaii" (*Data currently being collected*)
2. Lividini, K., **Herrington, C.**, Birol, E. "Farmer adoption of zinc rice in Bangladesh: a nationally-representative study". (*Analysis in process*)
3. Taleon, V., **Herrington, C.**, Sarkar, Md. A. R., and Md. S. Rahaman. "Consumer Sensory Evaluation of Selected Rice Varieties and Processing Levels in Bangladesh." (*Analysis in process*)
4. Kilders, V., **Herrington, C.**, Lusk, J. "Does inflation deflate preferences for individual product attributes? An experimental simulation of consumer preference adjustments in response to price increases." (*Analysis in process*)
5. **Herrington, C.**, Maredia, M., Ortega, D., Reyes, B. "Farmer adoption of biofortified bean seed in Zimbabwe and the role of learning". (*Data collected, analysis yet to begin*)
6. **Herrington, C.**, Kilders, V., Lusk, J. "Explaining differences in preferences for food attributes using an altruism index." (*Data collected, analysis yet to begin*)

TECHNICAL REPORTS AND WORKING PAPERS

1. **Herrington, C.**, Lividini, K., Angel, A., and E. Birol. "Prioritizing Countries for Biofortification Interventions: Biofortification Priority Index Second Edition (BPI 2.0)." HarvestPlus Working Paper No. 40. Washington, DC: International Food Policy Research Institute/HarvestPlus.
2. Larochelle, C., Labarta, R., Katungi, E., **Herrington, C.**, Alwang, J., Asare-Marfo, D., Ball, A. and E. Birol. (2017). "Farming Practices and Crop Varietal Choice among

Ugandan Bean and Sweet Potato Producers.” HarvestPlus Research for Action Paper Series 8. Washington, DC: International Food Policy Research Institute/HarvestPlus.

3. Asare-Marfo, D., **C. Herrington**, E. Birol et al. (2016). “Assessing the Adoption of High Iron Bean Varieties and Their Impact on Iron Intakes and Other Livelihood Outcomes in Rwanda: Main Household Survey Report.” Washington, DC. HarvestPlus, International Food Policy Research Institute.
4. Asare-Marfo, D., **C. Herrington**, E. Birol et al. (2016). “Assessing the Adoption of High Iron Bean Varieties and Their Impact on Iron Intakes and Other Livelihood Outcomes in Rwanda: Listing Exercise Report.” Washington, DC. HarvestPlus, International Food Policy Research Institute.
5. Mulugu, K. and **C. Herrington**. (2016). “Acceptance and Integration of Biofortified Vitamin A Maize into Common Diets in Northern Zambia.” HarvestPlus Research for Action Paper 6. Washington, DC: International Food Policy Research Institute/HarvestPlus.
6. **C. Herrington**. (2014). “A Study of Opportunity International’s Agricultural Programs with an Emphasis on Female Farmers.” Internal Report, Opportunity Int’l – Chicago, IL.
7. **C. Herrington**. (2014). “Wami-Dakawa Morogoro Rice Marketing Survey Findings for Opportunity Tanzania Limited” Internal Report, Opportunity Int’l – Chicago, IL.

SELECTED CONFERENCE PRESENTATIONS

*(Select Presented Papers and Posters; *denotes presenting author)*

1. **Herrington, C.***, Maredia, M., Ortega, D., Reyes, B. (2023). “Farmer Willingness-to-Pay for Biofortified Bean Seed: A Field Experiment in Rural Zimbabwe.” Oral presentation at the 8th Agriculture, Nutrition, and Health Academy (virtual).
2. **Herrington, C.***, Maredia, M., Ortega, D., Reyes, B. (2023). “Farmer Aspirations and Willingness-to-Pay for Biofortified Bean Seed: A Field Experiment in Rural Zimbabwe.” Oral presentation at the Tata-Cornell Institute Conference on Food, Environment, and Health – Global Evidence in Ithaca, NY.
3. **Herrington, C.***, Maredia, M., Ortega, D., Taleon, V., Birol, E., Sarkar, M.A., and M.S. Rahaman. (2021). “Rural Bangladeshi Consumers’ Willingness-to-Pay for Improve Nutrition via Zinc Biofortified and Low-Milled Rice.” Oral presentation at the 31st International Association of Agricultural Economics Meeting in Delhi, India (virtual).
4. **Herrington, C.***, Maredia, M., Ortega, D., Taleon, V., Birol, E., Sarkar, M.A., and M.S. Rahaman. (2021). “Consumers’ Willingness-to-Pay for High Zinc Rice and Low-Milled Rice in Bangladesh.” Oral presentation at the 6th Agriculture, Nutrition, and Health Academy (virtual).
5. **Herrington, C.***, Maredia, M., Ortega, D., Taleon, V., Birol, E., Sarkar, M.A., and M.S. Rahaman. (2021). “Consumers’ Willingness-to-Pay for High Zinc Rice and Low-Milled Rice in Bangladesh.” Oral presentation at the 2021 Tufts University Research and Data Symposium for Food and Nutrition (virtual).
6. **Herrington, C.***, Maredia, M., Ortega, D., Taleon, V., Birol, E., Sarkar, M.A., and M.S. Rahaman. (2020). “Consumers’ Willingness-to-Pay for High Zinc Rice and Low-Milled

Rice in Bangladesh.” Poster presentation at the 2020 Agricultural and Applied Economics Association Meeting (virtual).

7. **Herrington, C.***, Lividini, K., Angel, M., and E. Birol. (2018). “Prioritization of Biofortified Crop Interventions throughout Africa, Asia, and Latin America.” Rapid Fire Paper Presentation at 2018 IFPRI RISE Meeting in Washington, D.C., USA.
8. **Herrington, C.***, Funes, J., Lividini, K., Moursi, M., Taleon, V., Ilona, P. and E. Birol. (2018). “Subnational Prioritization of Biofortification Interventions in Nigeria.” Selected Oral Paper Presentation at 2018 IFPRI RISE Meeting in Washington, D.C., USA.
9. **Herrington, C.***, Funes, J., Lividini, K., Moursi, M., Taleon, V., Ilona, P. and E. Birol. (2018). “Subnational Prioritization of Biofortification Interventions in Nigeria.” Oral Presentation at the 30th International Association of Agricultural Economists Meeting in Vancouver, Canada. *Finalist for the Nils Westermarck Prize for best contributed visual paper.*
10. **Herrington, C.***, Lividini, K., Angel, A., and E. Birol. (2018). “Prioritization of Biofortified Crop Interventions throughout Africa, Asia, and Latin America.” Oral Paper Presentation at the 3rd Agriculture, Nutrition, and Health Academy in Accra, Ghana.
11. **Herrington, C.*** (2017). “Biofortification: The Evidence - Efficacy, Cost-Effectiveness, and Impact.” Poster presentation at the 2nd Agriculture, Nutrition, and Health Academy in Kathmandu, Nepal.
12. **Herrington, C.*** (2017). “Assessing the Impact of the Adoption of High Iron Bean Varieties on Bean and Iron Intake in Vulnerable Populations of Rwanda.” Oral paper presented at the CGIAR Standing Panel on Impact Assessments (SPIA) Annual Meeting in Nairobi, Kenya.
13. Asare-Marfo, D., **Herrington, C.***, Birol, E., and M. Zeller. (2016). “Adoption of High Iron Bean Varieties in Rwanda.” Poster presented at the Micronutrient Forum Conference in Cancun, Mexico
14. Vaiknoras, K.*, Larochele, C., Birol, E., Asare-Marfo, D. and **C. Herrington**. (2016). “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”. Oral paper presentation at the 2016 Agricultural and Applied Economists Association Meeting in Boston, M.A., USA.
15. **Herrington, C.***, Birol, E.*, Funes, J.*, Oparinde, A.*, Diressie, M*., Zeller, M.*, and E. Simpungwe. * (2016). “From Implementation to Impact: Targeting and Measuring Biofortification Interventions”. Selected Symposia Presentation at the 5th African Association of Agricultural Economists Meeting in Addis Ababa, Ethiopia.

INVITED TALKS AND SEMINARS

(*denotes presenting author or speaker)

1. Dobis, E.*, **Herrington, C.***, Reeling, C.* (2022). “Exploring Careers in Academia, Industry, and Government.” Panel at the 2022 Agricultural and Applied Economists Association Meeting in Anaheim, CA, USA.

2. Alloush, M.*, Ando, A.*, Grogan, K.*, **Herrington, C.*** (Moderator), Ortiz-Bobea, A.*, Plakias, Z.*. (2022). “Promoting Mental Health, Diversity, Equity, and Inclusion”. Panel at the 2022 Agricultural and Applied Economists Association Meeting in Anaheim, CA, USA.
3. **Herrington, C.*** (2022). “Consumers’ Willingness-to-Pay for High Zinc Rice and Low-Milled Rice in Bangladesh.” MSU Development Seminar Series – East Lansing, MI, USA.
4. **Herrington, C.*** (2022). “Consumers’ Willingness-to-Pay for High Zinc Rice and Low-Milled Rice in Bangladesh.” AAEA Graduate Student Section Seminar Series – Online (Virtual).
5. **Herrington, C.*** (2022). “Addressing Questions in Agriculture: Domestic & Abroad through Agricultural Economics.” Seminar for the 2022 Agricultural Education Leadership Cohort at Providence Grove High School in Franklinville, NC. (Virtual presentation).
6. **Herrington, C.*** (2021). “Consumers’ Willingness-to-Pay for High Zinc Rice and Low-Milled Rice in Bangladesh.” MSU AFRE Brownbag Seminar Series – East Lansing, MI, USA.
7. Bashar, K.*, **Herrington, C.***, Lividini, K.* (2019). “Assessing the Adoption of High Zinc Rice in Bangladesh.” IFPRI/HarvestPlus Brownbag Seminar – Washington, DC.
8. **Herrington, C.***, Lividini, K., Angel, A., and E. Birol. (2018). “Prioritization of Biofortified Crop Interventions throughout Africa, Asia, and Latin America.” IFPRI/HarvestPlus Brownbag Seminar Series – Washington, DC.
9. **C. Herrington***. (2017). “Better Nutrition through Agriculture: the Power of Biofortification.” Presentation for the African Agricultural Professional Fellowship Program’s IFPRI visit – Washington, DC.
10. Lividini, K.* and **C. Herrington.*** (2017). “The Potential for High Zinc Rice Biofortification in Bangladesh: Simulation Results and Adoption Survey Planning.” Bangladesh Rice Research Institute – Gazipur, Bangladesh
11. Birol, E.*, Funes, J.*, Oparinde, A.*, **Herrington, C.***, Tedla-Diressie, M.* (2016). “From Implementation to Impact: Targeting and Measuring Biofortification Interventions.” IFPRI/HarvestPlus Brownbag Seminar Series – Washington, DC.
12. **C. Herrington*** and P. Willingham*. (2016). “Better Nutrition through Agriculture: the Power of Biofortification.” Teacher Workshop presented at the 89th National FFA Convention in Indianapolis, IN.
13. Asare-Marfo, D.* and **C. Herrington***. (2016). “Rwanda High Iron Bean Impact Assessment Study: Preliminary Descriptive Results from Main Survey.” IFPRI/HarvestPlus Brownbag Seminar Series – Washington, DC
14. Asare-Marfo, D.* and **C. Herrington***. (2015). “Rwanda High Iron Bean Impact Assessment Study: Results from Listing Exercise and Study Update.” Presentation made to the Rwanda Agricultural Board and the Rwanda HarvestPlus Country Team – Kigali, Rwanda.

15. Asare-Marfo, D.* and **C. Herrington***. (2015). “Rwanda High Iron Bean Impact Assessment Study: Results from Listing Exercise and Study Update.” IFPRI/HarvestPlus Brownbag Seminar Series – Washington, DC
16. Asare-Marfo, D.* and **C. Herrington***. (2015). “Rwanda High Iron Bean Impact Assessment Study 2015: Survey Design.” IFPRI/HarvestPlus Brownbag Seminar Series – Washington, DC.
17. **C. Herrington***. (2014). “Women in Agriculture and their role in Opportunity International’s Portfolio.” Research Seminar at Opportunity International in Chicago, IL.

TEACHING AND TRAINING EXPERIENCE

Guest Lectures

Agricultural Policy in Developing and Emerging Countries Spring 2023
 Course: AFRE 300: Public Policy Issues in the Agri-Food System, Prof. Molly Sears

Enumerator Training (Led or Co-Led)

Harare, Zimbabwe	9-11 November, 2022
Study: Farmer Adoption and Willingness-to-Pay for Biofortified Maize and Bean; Co-led training with the Centre for Agriculture and Food Policy firm; Trained 54 individuals	
Gazipur, Bangladesh	24-28 October, 2018
Study: Consumer Acceptance and Willingness-to-Pay for High Zinc Rice and Degrees of Milling in Bangladesh; Co-led training with the Bangladesh Rice Research Institute; Trained 16 individuals	
Dhaka, Bangladesh	20 August-07 September, 2018
Study: Bangladesh High Zinc Rice Adoption; Co-led training with the Data Analysis and Technical Assistance (DATA) firm; Trained 170 individuals	
Kigali, Rwanda	17-30 August, 2015
Study: Main Household Survey for the Rwanda High Iron Bean Impact; Led training with IFPRI colleagues; Trained 42 individuals	
Kigali, Rwanda	28-31 April, 2015
Study: Refresher Listing Survey for the Rwanda High Iron Bean Impact Assessment; Led training with IFPRI colleagues; Trained 75 individuals	
Kigali, Rwanda	16-20 February, 2015
Study: Listing Survey for the Rwanda High Iron Bean Impact Assessment; Led training with IFPRI colleagues; Trained 87 individuals	

PROFESSIONAL DEVELOPMENT

TEACHING TRAININGS

Michigan State University Pedagogy Workshops

- August 19, 2022
- Workshops: Teaching Large Lectures and Promoting Student Engagement, Creating and Using Syllabi for Successful Teaching and Learning, Navigating Challenges: How to be a Trauma-Informed Educator

Michigan State University Graduate Teaching Assistant Orientation Workshops

- August 18, 2022
- Workshops: Undergraduate Student Success & Keeping Undergraduate Learning Goals in Mind, Designing and Implementing Culturally Responsive and Inclusive Curricula for Classroom Instruction, MSU Policy Primer & Case Studies with Policy/Program Leaders, Successful Communication and Healthy Boundaries

MSU Graduate Teaching and Learning Community Trainings

- Teaching Philosophy Workshop on June 29, 2022
- Student Engagement via Active Learning Workshop on June 17, 2022
- "Making it Stick" Learning Styles Workshop on June 15, 2022
- Facilitating Student Motivation Workshop on June 14, 2022

RESEARCH TRAININGS

Presenting Data and Information Course, Instructor: Edward Tufte, June 12, 2018 – Washington, DC

Panel Data Course, Georgetown Center for Econometric Practice, Instructor: Jeffrey Wooldridge of Michigan State University, May 21-22, 2018 – Washington, DC

Writing Questions for Survey Course, Joint Program on Survey Methodology Program between the Universities of Michigan & Maryland, March 10-11, 2016 - Washington, DC
[Borlaug Summer Institute on Global Food Security](#), July 8-21, 2012 – Purdue University, West Lafayette, IN

OTHER PROFESSIONAL EXPERIENCE

Intern, Mujila Falls Agriculture Centre – Mwinilunga, Zambia	2010
Intern, Stop Hunger Now (now Rise Against Hunger) – Raleigh, NC	2009 – 2010
Leadership Development Intern, North Carolina FFA Association – Raleigh, NC	2009
Conference Facilitator, North Carolina FFA Association – Raleigh, NC	2008 – 2009

LEADERSHIP AND SERVICE EXPERIENCE

ACADEMIC SERVICE

Applied and Agricultural Economics Association (AAEA)

Abstract Reviewer, International Development: Trade, Markets, and Policy	2023
Graduate Student Representative, International Section	2022-Present
Social Media Team, Committee for Women in Agricultural Econ Section	2021 –Present

Michigan State University, Dept. of Agricultural, Food, and Resource Economics

Inclusivity Ambassador, AFRE Graduate Student Organization 2022 – 2023
Speaker, AFRE Graduate Student Perspective Visit Day & Orientation 2021, 2022
Graduate Mentor, AFRE Graduate Student Organization 2020 – 2023

International Food Policy Research Institute (IFPRI)

Reviewer, Internal Review Board (IRB) 2016 – 2019
Alternate Reviewer, Internal Review Board (IRB) 2015 – 2016
Research Support Staff (RSS) Committee, IFPRI 2016 – 2019

Kansas State University

Secretary, Graduate Students of Agricultural Economics – Manhattan, KS 2011 – 2012
Case Study Team, International Food and Agribusiness Marketing Association (IFAMA)
Conference - Shanghai, China 2012

North Carolina State University

Study Abroad, Agricultural, and Resource Economics Dept., France, England, Wales 2011
President, Agribusiness/NAMA Club 2010 – 2011
Treasurer, Agribusiness/NAMA Club 2009 – 2010
Ambassador, College of Agriculture and Life Sciences 2009 – 2011
Study Abroad, NCSU-Zhejiang University Plant Biology Dept., China 2009
State President, North Carolina FFA Association 2007 – 2008

VOLUNTEER AND COMMUNITY SERVICE

Youth Group Leader, Vine Church – Dunn Loring, VA 2016 – 2018
Alumni Reviewer, NCSU Caldwell Fellows Program 2015- 2018
Small Group Leader, Faith Evangelical Free Church – Manhattan, KS 2012 – 2013
Leadership Team Member, NCSU Navigators Ministry – Raleigh, NC 2010 – 2011
Volunteer, Mission Emmanuel – Cielo, Dominican Republic 2009, 2010

CURRENT PROFESSIONAL MEMBERSHIPS

International Association of Agricultural Economists (IAAE)
Agriculture and Applied Economics Association (AAEA)
Agriculture, Nutrition, and Health Academy (ANH Academy)

REFERENCES

Dr. Mywish Maredia, Department of Agricultural, Food, and Resource Economics, Michigan State University. maredia@msu.edu, +1-517-353-6602 (Co-Advisor)

Dr. David Ortega, Department of Agricultural, Food, and Resource Economics, Michigan State University. dortega@msu.edu, +1- 517-353-2981 (Co-Advisor)

Dr. Ekin Birol, World Resources Institute, Michigan State University. ekin.birol@wri.org;
(Previous Supervisor at IFPRI)

Dr. Nicole Mason-Wardell, Department of Agricultural, Food, and Resource Economics, Michigan State University. masonn@msu.edu, +1- 517-432-4446, (Graduate Director)