

# ELLEN B. MCCULLOUGH

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## Positions

*Assistant Professor*, Department of Agricultural & Applied Economics (2016–present)  
**University of Georgia**, Athens, Georgia

*Associate Program Officer*, Agricultural Development Program (2009–2011)

*Research Analyst*, Agricultural Development Program (2008–2009)

**Bill & Melinda Gates Foundation**, Seattle, Washington

*Research Economist*, Agricultural & Development Economics Division (2005–2008)

**Food and Agriculture Organization of the United Nations**, Rome, Italy

## Education

Ph.D., Applied Economics and Management, Cornell University (2011-2016)

M.Sc., Earth Systems, Stanford University (2003-2004)

B.S., Earth Systems, Stanford University (1999-2003)

## Research Interests

Development economics, agricultural development, agricultural productivity, labor productivity, structural transformation, consumer diet transitions

## Publications

### *Journal Articles*

McCullough, E. B., Quinn, J. D., and Simons, A. M. 2022. Modeling climate smart soil fertility investments in sub-Saharan Africa. *Nature Food* 3(April 2022): 275-285. (Research brief available here).

McCullough, E., Zhen, C., Shin, S., Lu, M., and Arsenault, J. 2022. The role of food preferences in determining diet quality for Tanzanian Consumers. *Journal of Development Economics* 155(2022): 102789.

Ricciardi, V., A. Wane, B.S. Sidhu, C. Goode, D. Solomon, E.B. McCullough, F. Diekmann, J. Porciello, M. Jain, N. Randall, Z. Mehrabi. 2020. A scoping review of research funding for small-scale farmers in water scarce regions. *Nature Sustainability* 3: 836-844.

McCullough, E.B. 2017. Labor productivity and employment gaps in Sub-Saharan Africa. *Food Policy* 67 (February 2017): 133-152.

McCullough, E.B., P.A. Matson. 2011. Evolution of the knowledge system for agricultural development in the Yaqui Valley, Sonora, Mexico. *Proceedings of the National Academy of Sciences* 113 (17) 4609-4614.

Gómez, M.I., C.B. Barrett, L.E. Buck, H. De Groote, S. Ferris, H.O. Gao, E.B. McCullough, D.D. Miller, H. Outhred, A.N. Pell, T. Reardon, M. Retnanestri, R. Ruben, P. Struebi, J. Swinnen, M.A. Touesnard, K. Weinberger, J.D.H. Keatinge, M.B. Milstein and R.Y. Yang. 2011. Research Principles for Developing Country Food Value Chains. *Science* 332 (6034): 1154.

Jacobs, K., L. Lebel, J. Buizer, L. Addams, P.A. Matson, E.B. McCullough, P. Garden, G. Saliba, and T. Finan. 2010. Linking knowledge with action in the pursuit of sustainable water-resources management. *Proceedings of the National Academy of Sciences* 113 (17): 4591-4596.

Omiti, J.M., D.J. Otieno, T.O. Nyanamba and E.B. McCullough. 2009. Factors influencing the intensity of market participation by smallholder farmers: a case study of rural and peri-urban areas of Kenya. *African Journal of Agricultural and Resource Economics* 3 (1): 57-82.

Galloway, J.N., M.B. Burke, G.E. Bradford, R. Naylor, W. Falcon, A.K. Chapagain, J.C. Gaskell, E.B. McCullough, H.A. Mooney, K.L. Oleson, H. Steinfeld, T. Wassenaar and V. Smil. 2007. International trade in meat: The tip of the pork chop. *Ambio* 36 (8): 622.

Burke, M., K. Oleson, E. McCullough, and J. Gaskell. 2009. A Global Model Tracking Water, Nitrogen, and Land Inputs and Virtual Transfers from Industrialized Meat Production and Trade. *Environmental Modeling and Assessment* 14 (2): 179.

Falcon, W.P., R.L. Naylor, W.L. Smith, M.B. Burke and E.B. McCullough, 2004. Using climate models to improve Indonesian food security. *Bulletin of Indonesian Economic Studies* 40 (3).

Google scholar citations for journal publications (March 26, 2020): 1,079

### *Books & Book Chapters*

#### **Books**

McCullough, E.B., P.L. Pingali, and K.G. Stamoulis (eds). 2008. *The Transformation of Agri-food Systems: Globalization, Supply Chains, and Smallholder Farmers*. London, UK: Earthscan Press, 381pp.

Google scholar citations for book publications (March 26, 2020): 201

## Book Chapters

McCullough, E.B. 2018. Agricultural Labor Is Not So Unproductive in Africa. In: Christiaensen, Luc, and Lionel Demery (eds). *Agriculture in Africa: Telling Myths from Facts*. Directions in Development. Washington, DC: World Bank. Pp 47-56.

McCullough, E.B. and P.A. Matson. 2012. Linking knowledge with action for sustainable development: a case study of change and effectiveness. In: P.A. Matson (ed). *Seeds of sustainability: Lessons from the birthplace of the Green Revolution in Agriculture*, Washington DC: Island Press, pp 63-83.

Matson, P., Luers, A. and EB McCullough. 2012. Exploring vulnerability in the Yaqui Valley human-environment system. In: P.A. Matson (ed). *Seeds of sustainability: Lessons from the birthplace of the Green Revolution in Agriculture*, Washington DC: Island Press, pp 83-92.

Schoups, G., L. Adams, D. Battisti, E.B. McCullough, and J.L. Minjares. 2012. Water resources management in the Yaqui Valley. In: P.A. Matson (ed). *Seeds of sustainability: Lessons from the birthplace of the Green Revolution in Agriculture*, Washington DC: Island Press, pp 197-230.

McCullough, E.B., P.L. Pingali, and K.G. Stamoulis. 2010. Small farms and the transformation of food systems: an overview. In: R. Haas, M. Canavari, B. Slee, C. Tong, and B. Anurugsa (eds). In: *Looking East Looking West: Organic and quality food marketing in Asia and Europe*. Wageningen, The Netherlands: Wageningen Academic Publishers, pp 47-85.

Pingali, P.L. and E.B. McCullough. 2010. Drivers of Change in Global Agriculture and Livestock Systems. In: H. Steinfeld, H. A. Mooney, F. Schneider, and L.E. Neville (eds). *Livestock in a Changing Landscape: Drivers, Consequences, and Responses*. Washington, DC: Island Press, pp 5-10.

Tobgay, S.K. and E.B. McCullough. 2008. Linking small farmers in Bhutan with urban consumers: the importance of market access. In: E.B. McCullough, P.L. Pingali, and K.G. Stamoulis (eds). *The Transformation of Agri-food Systems: Globalization, Supply Chains, and Smallholder Farmers*. London, UK: Earthscan Press, pp 235-258.

Omiti, J.M., T. Nyanamba, E.B. McCullough and D. Otieno. 2008. Factors influencing diversification of smallholder agriculture in Kenya. In: E.B. McCullough, P.L. Pingali, and K.G. Stamoulis (eds). *The Transformation of Agri-food Systems: Globalization, Supply Chains, and Smallholder Farmers*. London, UK: Earthscan Press, pp 259-278.

Google scholar citations for book chapter publications (March 26, 2020): 150

## Working Papers

“Occupational choice and agricultural labor exits in Sub-Saharan Africa” (available here)

“The role of consumer demand in African structural transformation” (available here)

“African Diets: the role of income, prices and preferences” with Chen Zhen, Meichen Lu, Yawotse Nouve, and Joanne Arsenault

*Research in Progress*

“Calling for time: Examining bias in time use measurement using high-frequency phone surveys” with Tamara McGavock and Thomas Assefa (abstract here)

“Stifled by stigma? Experimental effects of updating husbands’ beliefs on participation in women’s household work” with Tamara McGavock, Thomas Assefa, and Nicholas Magnan (abstract here)

“Who is asking and how? The effects of enumerator gender and survey method in measuring intimate partner violence” Tamara McGavock, Nicholas Magnan, Aditi Kadam, and Thomas Assefa

“Understanding self-replication of Village Savings and Loan Groups in Malawi and Tanzania” with Sundar Bharadwaj and Rachel Ramey

**Research Presentations**

2021: Invited Seminar, Online Agricultural and Resource Economics Seminar Series (#OARES); Invited Seminar, Virginia Polytechnic Institute and State University; Agricultural & Applied Economics Association (AAEA), Austin, Texas (virtual presentations); Agriculture, Nutrition & Health Academy Week (virtual presentation);

2020: Invited Seminar, Michigan State University, East Lansing, Michigan; Southern Economic Association (SEA) Annual Conference; Agricultural & Applied Economics Association (AAEA) (virtual participation);

2019: Center for the Study of African Economies (CSAE), Oxford, UK; Agricultural & Applied Economics Association (AAEA), Atlanta, Georgia; African Association of Agricultural Economics (AAAE), Abuja, Nigeria;

2018: Agriculture, Nutrition & Health Academy Week, Accra, Ghana; Agricultural & Applied Economics Association (AAEA), Washington, DC; Conservation Ecology Seminar Series (UGA), Athens, Georgia;

2017: European Association of Environmental and Resource Economics (EAERE), Athens, Greece; International Consortium on Applied Bioeconomy Research (ICABR), Berkeley, CA;

2016: Food and Agriculture Organization of the UN invited seminar, Rome, Italy; Rural Livelihoods Information System expert consultation, Rome, Italy; World Bank Jobs & Development Conference, Washington, DC; African Association of Agricultural & Applied Economics Conference, Addis Ababa, Ethiopia;

2015: IZA-World Bank Conference on Employment and Development, Bonn, Germany; Agriculture in Africa – Telling Facts from Myths Symposium, World Bank and International Food Policy Research Institute, Washington DC; Western Economic Association International, Honolulu, Hawaii; Western Economic Association International Graduate Student Workshop, Honolulu, Hawaii; Agricultural & Applied Economics Association, San Francisco, CA; Cornell University Development Economics Seminar, Ithaca, NY;

2014: Food Systems and Poverty Reduction IGERT Symposium, Ithaca, NY;

2013: African Association of Applied Economics Conference, Hammamet, Tunisia; International Conference on Global Food Security, Noordwijkerhooft, The Netherlands; Agriculture in Africa – Telling Facts from Myths Workshop, Washington, DC; Food Systems and Poverty Reduction IGERT Symposium, Ithaca, NY;

2011: Leverhulme Centre for Integrative Research on Agriculture and Health, Agri-food Policy and Governance for Nutrition and Health Research Conference, London, UK; Shoreline Community College, Seattle, Washington;

## Research Funding

“Viral replication of women’s savings groups in Africa (Malawi, Tanzania and Nigeria)”

Co-Investigator with Sundar Baradwaj (PI) and Rachel Ramey

\$189,000; Care International

2020-2022

“Changing climate and livelihoods adaptation in Ethiopia”

Principal Investigator with Adam Milewski (co-PI)

\$14,200; Grants on the Edge Program, UGA College of Agricultural & Environmental Sciences and Office of the Vice President for Research

2019-2020

“Her Time: a time use study of women participating in livelihoods programs in Ethiopia”

Principal Investigator with Tamara McGavock (co-PI) and Nicholas Magnan (co-Investigator)

\$300,000; Care International and World Vision International

2019-2021

“Harnessing Food Demand Systems for improved nutrition in Sub-Saharan Africa”

Principal Investigator with Chen Zhen (co-PI)

\$784,000; Bill & Melinda Gates Foundation and the UK Department for International Development

2017-2020

Field-based Research Grant

Recipient

\$10,000; Food Systems and Poverty Reduction IGERT, Cornell University

2013

## Awards and Recognition

Outstanding Faculty Award, Agricultural & Environmental Economics Club at the University of Georgia, 2018-19 Academic year (2019)

Carl Eicher Award for Best Doctoral Dissertation on Africa for 2015-2017, International Association of Agricultural Economists (IAAE) (2018)

Outstanding Doctoral Dissertation Award for 2017, Agricultural & Applied Economics Association (AAEA) (2018)

Ecological Society of America Sustainability Science Award (awarded to Seeds of Sustainability: Lessons from the Birthplace of the Green Revolution in recognition of an outstanding contribution to sustainability science) (2013)

Trainee, Integrative Graduate Education and Research Traineeship (IGERT) in Food Systems and Poverty Reduction (Cornell University IGERT funded by the National Science Foundation) (2012-2014)

“Holy Cow” staff merit award for contributions to the mission of the Bill & Melinda Gates Foundation (2010)

Research Fellow, Center for Environmental Science and Policy, Freeman-Spogli Institute for International Studies, Stanford University. Knowledge Systems for Sustainable Development Project (position funded through National Oceanographic and Atmospheric Association; Bill Clark (PI), Kennedy School of Government, Harvard University)

## Professional Service

Peer Reviewer for Journals: *Agrekon*; *Agricultural Economics*; *Agriculture and Food Security*; *Agricultural and Resource Economics Review*; *American Journal of Agricultural Economics*; *Economics & Human Biology*; *Economic Development & Cultural Change*; *Environment and Development Economics*; *Food Policy*; *Food Security*; *Global Environmental Change*; *Global Food Security*; *Journal of Agribusiness*; *Journal of Development Economics*; *Oxford Development Studies*; *PLoS One*; *World Development*.

Other Peer Reviewer Services: African Economic Conference; Agricultural & Applied Economics Association conference; International Association of Agricultural Economists conference; Structural Change in African Agriculture and Rural Spaces Conference; African Green Revolution Forum;

Secretary-Treasurer, Africa Section, Agricultural & Applied Economics Association (2018-2020)

DW Brooks Speaker Selection Committee, College of Agricultural & Environmental Sciences, University of Georgia (2020)

## Teaching

The World Food Economy (AAEC 4730), University of Georgia (Spring 2017-2022)

Advanced Agricultural Development and Rural Economies (PhD Field Course), University of Georgia (Spring 2019, Fall 2020)

Food Fights (AAEC 2710), University of Georgia (Spring 2020-2022)