

CURRICULUM VITAE

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EPHRAIM MADUHU NKONYA

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International Food Policy Research Institute (IFPRI)  
2033 K Street N.W., Washington D.C. 20006, USA  
Phone: 202-862-5690  
E-mail: e.nkonya@cgiar.org

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**CURRENT POSITION:**

Senior Research Fellow at the International Food Policy Research Institute (IFPRI) in the Environment and Production Division.

**EDUCATION:**

**1996-1999:** Ph.D. Agricultural Economics, Kansas State University, USA.

Specialty: Econometrics and Statistics

Dissertation: Environmental and Economic Impacts of Soil Erosion and Soil Fertility Mining in Maize and Wheat Farms of Northern Tanzania.

**PROFESSIONAL EXPERIENCE:**

**Senior Research Fellow:** *June 2009 – Present*

International Food Policy Research Institute (IFPRI)  
2033 K. Street, N.W., Washington D.C. 20006 U.S.A.

**Research Fellow:** *August 2002 – May 2009*

International Food Policy Research Institute (IFPRI)  
2033 K. Street, N.W., Washington D.C. 20006 U.S.A.

**Postdoctoral Research Fellow:** *August, 1999 – August 2002*

International Food Policy Research Institute (IFPRI)  
2033 K. Street, N.W., Washington D.C. 20006 U.S.A.

**PUBLICATIONS:**

**Books & monographs**

**Nkonya, E.,** N. Gerber, P. Baumgartner, J. von Braun, A. De Pinto, V. Graw, E. Kato, J. Kloos, T. Walter. 2011. The Economics of Land Degradation. Toward an Integrated Global Assessment. Heidhues, F., Joachim von Braun and Manfred Zeller (eds). Development Economics and Policy Series #6. Peter Lang. Internationaler Verlag der Wissenschaften, Frankfurt am Main · Berlin · Bern · Bruxelles · New York · Oxford · Wien.

**Nkonya, E.,** D. Phillip, T. Mogues, J. Pender, and E. Kato. 2010. From the Ground up: Impact of a pro-poor community driven development project in Nigeria. International Food Policy Research Institute Research Monograph, ISBN 978-0-89629-179-9, 93pp. Washington DC.

**Nkonya, E.M.** 2009. *Modeling land degradation and food import quality policy enforcement.* ISBN 978-3-8383-1980-3. Lambert Press, Germany

**Nkonya, E.,** J. Pender, K. Kaizzi, E. Kato, S. Mugarura, H Ssali, and J. Muwonge. 2008. Linkages between land management, land degradation, and poverty in Sub-Saharan Africa: The case of Uganda. IFPRI Research Report #159, Washington D.C.

**Nkonya, E.**, J. Pender, P. Jagger, D. Sserunkuuma, C. Kaizzi, H. Ssali. 2004. Strategies for sustainable land management and poverty reduction in Uganda. International Food Policy Research Institute (IFPRI) Research Report #133. Washington D.C.

### **Book chapters & book reviews**

Jonas N. Chianu, J., E. W. Zegeye and **E. Nkonya**. 2010. Global Soybean Marketing and Trade: A Situation and Outlook Analysis. In Singh G. (ed). *The Soybean: Botany, Production and Uses*, CABI:461-484.

**Nkonya, E.**, J. Pender, S. Benin and E. Kato. 2008. "Land Rental Markets and Land Management: Evidence from Uganda" In: Holden, S., K. Otsuka and F. Place (eds.)(2008). *Emerging Land Markets in Africa - Implications for Poverty, Equity and Efficiency*. Resources For the Future Press, Washington, D. C.

**Nkonya, E.** 2005. *Pastoral Resource Competition in Uganda, Case Studies into Commercial Livestock Ranching and Pastoral Institutions*, by Muhereza F. and Otim. Book Review *Journal of Asian and African Studies*, 40(4).

### **Refereed Journal Articles**

Afranaa Kwamong N.; J. Ilukor; M. Hanisch and E. Nkonya. 2012. Making Rural Services Work for the Poor: Micro-level Evidence from Rural Uganda *World Rural Observations* 4(1)Forthcoming.

Chianu, J., E.M. Nkonya, F.S. Mairura, J.N. Chianu, F.K. Akinnifesi. 2011. Biological nitrogen fixation and socioeconomic factors for legume production in sub-Saharan Africa: a review. *Agronomy for Sustainable Development* 31(1):139–154.

Xie H., E. Nkonya and B. Wielgosz, 2012. Assessing the risks of soil erosion and small reservoir siltation in a tropical river basin in Mali using the SWAT model under limited data condition, *Applied Engineering in Agriculture*, 27(6), 895-904

Davis K., E. Nkonya, E. Kato, D. A. Mekonnen, M. Odendo, R. Miiró and J. Nkuba. 2012. Impact of Farmer Field Schools on Agricultural Productivity and Poverty in East Africa. *World Development* 40(2): 402–413.

Benin S., E. Nkonya, G. Okecho, J. Randriamamonjy, E. Kato, G. Lubade, and M. Kyotalimye. 2012. Impact of the National Agricultural Advisory Services (NAADS) program of Uganda: Considering Different Levels of Likely Contamination with the Treatment, *American Journal of Agricultural Economics* (forthcoming).

Nkonya E., M. Winslow, M. S. Reed, M. Mortimore, A. Mirzabaev. 2011. Monitoring and assessing the influence of social, economic and policy factors on sustainable land management in drylands. *Land degradation and Development*. 22(2):240-247

Benin S., **E. Nkonya**, G. Okecho, J. Randriamamonjy, E. Kato, G. Lubade, M. Kyotalimye. 2010. Returns to spending on agricultural extension: the case of the National Agricultural Advisory Services (NAADS) program of Uganda. *Agricultural Economics* 42(1) 249–267.

Chianu, J., **E. Nkonya**, F. Mairura, J. Chianu, F. Akinnifesi. 2010. Biological nitrogen fixation and socioeconomic factors for legume production in sub-Saharan Africa: a review. *Agronomy for sustainable development* (forthcoming).

- Peterman A, A.R. Quisumbing, J. Behrman and **E. Nkonya**. 2010. Understanding the complexities surrounding gender differences in agricultural productivity in Nigeria and Uganda. Forthcoming *Journal of Development Studies*.
- Birner, R., K. Davis, J. Pender, **E. Nkonya**, P. Anandajayasekeram, J. Ekboir, A.Mbabu, D. Spielman, D. Horna, S. Benin, M. Cohen. 2009. "From "best practice" to "best fit": a framework for designing and analyzing pluralistic agricultural advisory services worldwide" *The Journal of Agricultural Education and Extension*, 15(4):341-355.
- Rosegrant, M., **E. Nkonya**, and R. Valmonte-Santos. 2009. Food Security and Soil Water Management. *Encyclopedia of Soil Science*,1(1):1 — 4
- Nkonya, E.**, J. Pender, E. Kato. 2008. "Who knows who cares? Determinants of enactment, awareness and compliance with community natural resource management regulations in Uganda." *Environment and Development Economics* 13(1):79-109.
- Nkonya, E.**, B. Shiferaw and S. Msangi. 2007. "Food Security in the Drylands of South Asia and Sub-Saharan Africa: Research Challenges and Opportunities", *Annals of Arid Zone* 46(3&4): 1-33.
- Hyuha, T., B. Bashaasha, **E. Nkonya** and D. Kraybill. 2007. Analysis of Profit Inefficiency in Rice Production in Eastern and Northern Uganda *African Crop Science Journal*, 15(4):243-253.
- Ndakidemi, P.A., F.D. Dakora, **E.M. Nkonya**, D. Ringo, and H. Mansoor. 2006. "Yield and economic benefits of common bean (*Phaseolus vulgaris* L.) and soybean (*Glycine max* L. Merr.) inoculation in northern Tanzania." *Australian Journal of Experimental Agriculture* 46(4) 571–577.
- Nkonya, E.**, C. Kaizzi, J. Pender. 2005. Determinants of nutrient balances in a maize farming system in eastern Uganda. *Agricultural Systems*, 85(2):155-182.
- Nkonya, E.**, and W. Mwangi. 2004. "The economic rationale of recycling hybrid maize seeds in northern Tanzania." *Eastern Africa Journal of Rural Development*, 20(1):113-124.
- Bekunda, M., P. Ebanyat, **E. Nkonya**, D. Mugendi, and J Msaky. 2004 Soil fertility status, management, and research in east Africa. *Eastern Africa Journal of Rural Development*, 20(1):94-112.
- Pender, J., P. Jagger, **E. Nkonya**, D. Sserunkuuma. 2004. "Development Pathways and Land Management in Uganda." *World Development*, 32(5):767-792.
- Pender, J., **E. Nkonya**, P. Jagger, D. Sserunkuuma, and H. Ssali. 2004. Strategies to increase agricultural productivity and reduce land degradation: evidence from Uganda. *Agricultural Economics* 31(2/3): 181-195
- Nkonya, E.M.** 2002. "Uganda crop trader characteristics and their marketing constraints." *Eastern African Journal of Rural Development* 18(1):23-38.
- Nkonya, E.M.** 2001. "Cross-pollinated Crop Variety Adoption Studies and Seed Recycling: The Case of Maize in Tanzania." *Eastern African Journal of Rural Development* 17(1): 25-34.
- Nkonya, E.M.**, A.M. Featherstone, 2000. "Determining Socially Optimal Nitrogen Application Rates Using a Delayed Response Model: The Case of Irrigated Corn in Western Kansas." *Journal of Agricultural and Resource Economics*, 25(2): 453-467.
- Nkonya, E.M.**, J.L. Parcell, 1999. "Redistribution of Social Benefits from Advances in Extension and Research in the Tanzania Maize Industry," *Agricultural Economics* 21:231-239.
- Nkonya, E.M.** T. Schroeder and D.W. Norman. 1997. "Factors Affecting Adoption of Improved Maize Seed & Fertilizer in Northern Tanzania." *Journal of Agricultural Economics*, 48:1-12

#### **Selected Working Papers, & Published Proceedings:**

- Nkonya E.**, F. Place, J. Pender, M. Mwanjololo, A. Okhimamhe, E. Kato, S. Crespo, J. Ndjeunga and S. Traore. 2011. Climate Risk Management through Sustainable Land Management in Sub-Saharan Africa. IFPRI

- Bashaasha B., M. Najjingo Mangheni and **E. Nkonya**. 2011. Decentralization and Rural Service Delivery in Uganda IFPRI Discussion Paper 01063
- Xie, H., **E. Nkonya**, and B. Wielgosz. 2010. Evaluation of the SWAT model in hydrologic modeling of a large watershed in Nigeria. In Proceedings of the Third International Association of Science and Technology for Development (IASTED) African Conference on Water Resource Management (AfricaWRM), ed. O. Totolo, September 6-8, 2010, Gaborone, Botswana. <http://dx.doi.org/10.2316/P.2010.686-055>
- Kato E., **E. Nkonya** and F. Place and M. Mwanjalolo. 2010. An Econometric Investigation of Impacts of Sustainable Land Management Practices on Soil Carbon and Yield Risk. A Potential for Climate Change Mitigation IFPRI Discussion Paper 01038.
- Davis K., E. Nkonya, D. Ayalew, E. Kato, M. Odendo, R. Miiro and J. Nkuba. 2010. Impact Of Farmer Field Schools on Agricultural Productivity, Poverty, and Farmer Empowerment in East Africa, IFPRI Discussion Paper 00992.
- Nkonya, E. and H. Markelova. 2009. Looking beyond the obvious: Uncovering the features of natural resource conflicts in Uganda. CAPRI Working Paper No. 95. International Food Policy Research Institute: Washington, DC. <http://dx.doi.org/10.2499/CAPRIWP95>.
- Nkonya, E.M., D. Phillip, T. Mogues, J. Pender, M. Yahaya, G. Adebawale, T. Arokoyo and E. Kato. 2007. From the Ground up: Impact of a pro-poor community driven development project in Nigeria. Agricultural and Rural Development Discussion Paper #40, World Bank, Washington D.C.
- Nkonya, E. P. Gicheru, J. Woelcke, B. Okoba, D. Kilambya, and L. N. Gachimbi. 2008. On-site and off-site long-term economic impacts of soil fertility management practices: The case of maize-based cropping systems in Kenya. IFPRI Discussion Paper #0778.
- Nkonya, E.M., D. Phillip, T. Mogues, J. Pender, M. Yahaya, G. Adebawale, T. Arokoyo and E. Kato. 2007. From the Ground up: Impact of a pro-poor community driven development project in Nigeria. IFPRI Discussion Paper #756, Washington D.C.
- Benin S., **E. Nkonya**, G. Okecho, J. Pender, S. Nahdy, S. Mugarura, E. Kato, and G. Kayobyo. 2007. Assessing the Impact of the National Agricultural Advisory Services (NAADS) in the Uganda Rural Livelihoods. International Food Policy Research Institute Discussion Paper 00724.
- Birner, R., K. Davis, J. Pender, **E. Nkonya**, P. Anandajayasekeram, J. Ekboir, A. Mbabu, D. Spielman, D. Horna, S. Benin, M. Cohen. 2006. From “best practice” to “best fit”:A framework for analyzing pluralistic agricultural advisory services worldwide
- Nkonya, E.**, J. Pender, C. Kaizzi, E. Kato, and Samuel Mugarura. 2005. Policy options for increasing crop productivity and reducing soil nutrient depletion and poverty in Uganda. Environment and Production Technology Division (EPTD) Discussion Paper #134. International Food Policy Research Institute (IFPRI), Washington D.C.
- Nkonya, E.**, J. Pender, E. Kato, S. Mugarura, J. Muwonge. 2005. Who knows who cares? Determinants of enactment, awareness and compliance with community natural resource management bylaws in Uganda. CAPRI Working Paper #41.
- Pender, J., **E. Nkonya**, P. Jagger, D. Sserunkuuma. 2003. “An econometric approach to NRM impact assessment: an example from Uganda.” In: Shiferaw, B. and H. Freeman. *Methods for assessing the impacts of natural resource management research*. ICRISAT, Patancheru, India, pp 43-50.
- Kato, E. and **E. Nkonya**. 2001. “Information asymmetry among output traders, processors and farmers in Uganda, and IFPRI’s experiences in agricultural marketing data collection.” A Paper presented at the

sustainability of farm household information systems for improved livelihoods and reduced hunger and poverty. Workshop proceedings, published at:  
<http://www.fao.org/waicent/faoinfo/agricult/ags/AGSP/>

**Selected Published Policy Briefs, and Abstracts:**

Nkonya, E., N. Gerber, J. von Braun, and A. De Pinto. 2011. Economics of Land Degradation. The Costs of Action versus Inaction. IFPRI Issue Brief 68.

Banful A. B., E. Nkonya and V. Oboh. 2009. Constraints to Fertilizer Use in Nigeria: Perspectives and Insights from the Agricultural Extension Service Nigeria Strategy Support Program (APSF). *Brief No. 6*, IFPRI Nigeria.

“Racing the millennium development goals in Uganda.” (Contributed by Ephraim Nkonya and John Pender). *Share* magazine, the World Bank: page 4

**Nkonya, E.**, J. Pender, E. Kato, S. Mugarura, and J. Muwonge. 2004. “Community natural resource management and its linkage to poverty in Uganda” Abstract published by the African Highland Initiative (AHI) for the workshop on *Integrated Natural Resource Management in Practice*, that took place in Nairobi Kenya in October 2004.

**Professional services**

- (1) Associate editor of the African Journal of Agricultural and Resource Economics (<http://www.aaae-africa.org/afjare/eboard.html> )
- (2) I serve as a regular peer reviewer of the following journals:
  - a. *Agricultural Economics*
  - b. *Food Policy*
  - c. *African Journal of Food, Policy, Agriculture and Development*
  - d. *Society and Natural Resources*
- (3) I have served as an external examiner of graduate students of the following Universities:
  - a. Humboldt University, Germany
  - b. Makerere University, Uganda
  - c. University of Pretoria, South Africa
  - d. University of Helsinki, Finland
  - e. Howard University, USA

**Media appearances**

My research work has attracted considerable media attention and has led to regular TV and radio appearances in the following outlets:

- Radio Interviews by the VOICE OF AMERICA, 1999 – 2003
- Interview by SCIENTIFIC AMERICA 2009, 2010
- *NATURE* magazine, 2009
- Recognition as EXPERT by THE DAILY TRIUMPH, Lagos, Nigeria
- Guest appearance on TV - AFRICA JOURNAL, 2004, 2005, 2010, 2011
- Guest appearance on Nigerian National TV Authority, 2010

My research has also been published in websites of the following media outlets

(i) UNEP volunteers, Korea:  
[http://cafe.naver.com/unepkorea.cafe?iframe\\_url=/ArticleRead.nhn%3Fclubid=12280187%26page=1%26menuid=46%26boardtype=L%26articleid=4143%26referrerAllArticles=false](http://cafe.naver.com/unepkorea.cafe?iframe_url=/ArticleRead.nhn%3Fclubid=12280187%26page=1%26menuid=46%26boardtype=L%26articleid=4143%26referrerAllArticles=false) (June 25, 2011)

(ii) Berliner Zeitung (Germany),  
Cites "The economics of desertification, land degradation, and drought"  
<http://www.berlinonline.de/berliner-zeitung/wirtschaft/353021/353022.php> (August 1, 2011)

(iii) Membership to professional associations

Associations	Year joined	How joined?
1. Agricultural and Applied Economics Association (formerly American Agricultural Economics Association)	1997	By invitation
2. African Journal of Agricultural and Resource Economics (AfJARE)	2006	By invitation
3. European Agricultural Economics Association (EAEA)	2008	By invitation
4. International Association of Agricultural Economists (IAAE)	2006	By invitation

**Honors, scholarships and awards**

1. Masters degree scholarship. Offered by the Tanzania-Netherlands project on farming systems development. 1992 – 1994
2. PhD assistantship: offered by Kansas State University to students with high academic achievement. 1996 – 1999
3. Rockefeller Foundation: Summer Internship at University of Wisconsin, Madison: June, 1998. Offered to PhD students with excellent academic performance to help them prepare their PhD research proposals.
4. Research funding for PhD research: Conservation, Food and Health Foundation Inc., (CFHF), Boston, Massachusetts, (US\$7900) and International Center for Maize and Wheat Improvement (CIMMYT), Mexico City (US\$1500). June 1998 – December 1998.