

CURRICULUM VITAE: SABINA MAKOKHA MUKOYA-WANGIA, PH.D.

University of Nairobi CAVS, P.O. Box 29053-00625 Nairobi Kenya

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Bio-data: Married with five grown up children

EDUCATION

- Ph.D. Agricultural Economics , University of Missouri, USA (1998)
- MSc. Agricultural Economics, University of Alberta, Canada , 1983
- BSc. Agriculture, University of Nairobi, Kenya 1979
- Diploma in Agriculture and Home Economics, Egerton College, Kenya 1972

QUALIFYING EXPERIENCE

List of accomplishments

- Supervised two PhD students and internally examined one PhD student.
- Two PhD students finalizing thesis for submission and defense 2019.
- Externally examined theses for Masinde Muliro University of Science and Technology and Kenyatta University.
- Senior lecturer since July 2009 (ten years of teaching since last promotion)
- Specialized in Agricultural Marketing and Development Economics.
- Teaching agricultural markets and marketing (horticulture marketing, fish marketing) courses to undergraduates and graduate students. Statistics for Social sciences, econometrics and price and policy analysis, Food economics and policy., Crop and livestock Marketing, agribusiness strategies and management plans., Agricultural research marketing and analysis, animal production systems., experiential gardening and animal rearing., Extension and Technology Transfer., Extension teaching methods and approaches.
- Consulted for World Food Program under EURO Consults in Kilifi, Kitui and TaitaTaveta counties of Kenya on the impact of food aid and food for work projects in those counties. I also paid attention on the coexistence of wildlife and domestic livestock plus human beings. A threat all the time.
- Research funds from Kenya and USA (PEER) for my PHD student working on fish farming in drylands of Kenya, Eastern Kenya.
- National Research Fund for my masters student working on information technology for maize farmers in Bungoma, Kenya.

- National research fund for ,my bPHD student working on control methods for Tsetsefly in Lamu, Kenya Coast.
- Shortlisted for multidisciplinary research addressing adoption of maize varieties tolerant to drought, lethal necrosis disease and fall army worms in Kenya. Am the team leader.
- Consulted for IDRC (Canada) in fruit processing and marketing in Western Kenya
- Worked as a social scientist under Kenya Agricultural Livestock Research Organization (KALRO) for 20 years.
- Teaching practice assessor for agricultural education graduate teachers in high schools.
- Coordinator of Open and Distance E learning (ODEL) in the Departments of Agricultural Economics and Plant Science and Crop Protection.

WORK EXPERIENCE

1) University of Nairobi 2005- to date

Currently Senior Lecturer University of Nairobi since 2009 specializing in agricultural extension and adoption processes. Teaching development economics, food economics and policy, economics of food safety and quality, agribusiness management plans and strategies, and agricultural marketing to undergraduate and graduate students as well as supervise research on adoption and impact assessment. Currently I am the Coordinator of the Agricultural Information, Communication and Management Program at the Department of Agricultural Economics.

In my present position I have written a grant seeking proposal on research on Adoption and Economic Benefits of Maize varieties Tolerant to Drought and Maize Lethal Necrosis Disease by Farmers for Enhanced Food Security in Uganda, Ethiopia and Kenya in collaboration with Kenya Agricultural and Livestock Research Organization (KALRO), CIMMYT and CABI. The area covered was Kiifi County, Bomet and Uasin Gishu.

I have also supervised research on determinants of beef cattle marketing in Ethiopia 2013. This Masters' work was published in a book.

My PhD work was on production , consumption and food security in Kakamesa region, Kenya. This work was sponsored by USAID and Roxckfeler Foundation.

My Masters thesis was on the analysis of adoption of improved dairy cattle in Western Kenya. This study and research was funded by The Ford Foundation. And Commonwealth scholarship.

There is work with my PHD student on methods of control of Tsetse fly among cattle farmers in Lamu Island. This work is evaluating farmers' choice of appropriate control method and also comparing the livestock units among households applying different tsetse fly and trypanosomiasis control methods effectiveness. This work has been funded

by National Research Fund of Kenya Government. The amount of the grant is 2 million Kenya shillings.

My other Masters student, Wanjala amos Wawire wrote a thesis on effect of mobile phones on agricultural production in Bungoma. Kenya was funded by National Research Fund, KES 400,000.

2) Egerton University 2000-2005

Lecturer Agricultural Economics teaching development economics, food economics and policy, and agricultural marketing, econometrics to undergraduates as well as supervise graduate research on adoption and impact assessment. I supervised and graduated 8 Masters and 1 Ph.D. students. The theses focused on agricultural technology adoption and impact. I was the departmental link-person with CGIAR Centers, IDRC, UNEP and national research institute in Kenya.

3) Kenya Agricultural Research Institute (KARI) 1985-2000 (Now KALRO)

Agricultural Socio-Economist Research Officer responsible for M&E adoption and impact of agricultural technologies generated by KARI. During this period I conducted research for my Ph.D. thesis on “Maize Production and Consumption for Food Security in Kenya”. The study focused on adoption process and yield responses.

4) Ministry of Agriculture

Agricultural Extension Officer 1973-1980: Provided advisory services on the best production practices of agricultural enterprises in Kenya. I also conducted adoption studies on maize in collaboration with KARI in western Kenya. The main achievement was the progress in the productivity of crops and livestock.

SUPERVISION AND RESEARCH EXPERIENCE

A. Completed PhD theses

1. A completed PhD thesis: by Lagat, J.K. “**Determinants of Pollution in Tomato Production in Nakuru District**”. .Egerton University, PhD thesis, 2006.
2. A completed PhD thesis: Wesonga P. Shikoli. 2017. “**An analysis of fish value chain under Economic Stimulus Program in Kibwezi, Makueni County, Kenya.**”
3. Internal examiner of PhD thesis by Chemuliti Judith Kusimba (2015). ” An assessment of the feasibility of carbon trading afforestation contracts in Transmara sub-county, Kenya”.

B Completed Masters theses

1. Headmond PhaneAuma. 2017; Assessment of the role of community radio in accessing market information among small holders maize farmers, the case of Suba sub-c (graduated December 2017).
2. Kamau Titus Njoroge, 2016, An Economic Analysis of f influencing participation in pyrethrum group marketing channels among farmers in Nyandarua County, Kenya. M.Sc. Thesis, University of Nairobi, Kenya. Unpublished thesis.
3. Njoroge Gitonga and **Wangia Mukoya**, 2016, an evaluation of the influence of information sources on adoption of agroforestry practices in Kajiado Central Sub-County, Kenya. Universal Journal of Agricultural Research 4(3) 71-77
4. Patrick Ndwigwa Njeru, 2016, An Analysis of the public-private partnership in the provision of agricultural extension services: The case of greenhouse tomato group farming in Samburu County, Kenya. M.Sc. Thesis, University of Nairobi Kenya . Fundee by Ministry of agriculture, Marginal lands Section. This work was funded by Ministry of Agriculture ,Kenya.
- 6., Gashumba Thadeo 2016. Factors influencing participation of smallholder Dairy Farmers in milk marketing in Gicumbi District, Rwanda. M.Sc. Thesis, University of Nairobi, Kenya. Funded by African Economic Research Consortium.
7. Phane Auma Edmund. 2016. Assessment of the role of community radio in accessing market information by maize famers in Suba, Sub-County “. M.Sc. Thesis, University of Nairobi, Kenya.
8. Erick: M.Sc. thesis. Cattle Marketing Choices by farmers in Rwanda, 2012
9Mburu: Informal Markets of Dairy milk in Koibatek District. 2011.
10. Okati: MSc .thesis. Impact of Climate and Seasonal Variability on Human and Livestock Livelihoods in Kajiado. 2011. Funded by Department of Livestock Development and Marketing, Government of Kenya.
11. Muange: MSc. Thesis. Effects of farm income risk on smallholder production decisions in the highlands of Machakos District, Kenya; the case of Kauti Irrigation Schenme.
- 12 Echoka: MSc, thesis, Analysis of Determinants of Agricultural Credit Performance in Kenya: The case of Agricultural finance Corporation, Uasin Gishu. 2010. Funded by Agricultural Finance Corporation of Kenya.
13. Lucy Muthoni: MSc. Thesis. An Economic of Analysis Cereal Banks in Bungoma and Butere Mumias Districts of Western Kenya. 2009.Funded by Kenya Agricultural Research Institute.
14. Sabina Mukoya Wangia 1998: Factors affecting production, consumption and food security in Kakamega, Kenya. Ph.D. Thesis, University of Missouri, USA (published).. Funded by USAID and Rock Feller Foundation,
15. Sabina Mukoya Wangia 1982

: Adoption of improved dairy cattle in western Kenya, M.Sc. Thesis, University of Alberta Canada. Funded by The Ford Foundation and Commonwealth Scholarship.

16. Wawire Amos Wanjala “awareness and use of Kenya Agricultural Commodity Exchange Services (KACE) information services by small holder farmers of Bungoma County, Kenya Msc Thesis University of Nairobi , Nov. 2013.

B. Ongoing Supervision and Research

PhD Students

1. Mwaura Mary Njoki.” Influence of technology transfer methods and extension facilitators on the sustainability of the urban and peri- urban Agriculture in Nairobi City County” (Due for submission to Graduate School).
2. Onyango Seth Ooko. “Impact of Tsetse and Trypanosomiasis control on household income in Faza/ Pate Island of Lamu County” (Data analysis and zero draft writing) .
3. Mugo Harun. “Determination of factors influencing open access communication of Agricultural research output and innovations in Kenya”. Proposal is awaiting submission to Faculty Board of Postgraduate Studies)

Masters Students

1. WafulaLameck . Cost benefit and socio-economic analysis of conservation agriculture among smallholder maize farmers in Kakamega and Bungoma
2. counties, Kenya
3. Mueni CAthrine peter. Market efficiency of bananas in Kiambu, Kenya.
4. Bridgit Umubyeyi, “An evaluation of the effects of media organizations in transforming small holder farmers’ agricultural practices through Kilimo Media International (KMI) on Mang’elele radio.
5. Alice Nabwile.” Gender and access to ICT based agricultural services, a case of Bungoma county”

PUBLICATIONS

1. Onyango S. O. Mukoya-Wangia, S.M.; Kinama J.M, and Olet P.A. Factors affecting farmers’ Tsetse and Trypanosomiasis control mwthods in Lamu County, Kenya. Inernational Journal of Agricultural and Environmental Sciences:Vol4 No.2. pp21-29.April 2019.

2. Wycliffe Ongachi, Richard Onwonga, Hillary Nyakanganga, Sabina Wangia, Evans Chimoita. . (2018). Farmers knowledge, attitude, and perception of video-mediated learning vis-a-vis Farmers Field School on Striga weed management in Western Kenya. International Journal of Education and Development Using Information and Communication Technology(IJEDICT), Vol. 14, Issue 2, pp 195-210.

3. Headmond P, Mukoya-Wangia , S. and Magomere, T .Effectiveness of community radio in disseminating market information among small holder maize farmers: Experience from Suba Sub-County, Kenya”International Journal of Innovative Research.. Vol. 6 issue 3. ISSN 2278-0211 (Online). March 2017.

4. Maina, J.G. Wesonga, P. S; **Mukoya-Wangia, S.**; Njoka, J.T. (2017). Status of Fish Farming in Makueni County, Kenya. Universal Journal of Agricultural Resources: 5: 61-68. Doi: 10:13189/uiar:2017.05011.

5. Njeru P. N, **Mukoya-Wangia, S.M** .Cheminingwa G. N. and Munei K.. (2017). Assessing the role of Public Private Partnership in the provision of agricultural extension services: The case of greenhouse tomato farming in Samburu County, Kenya. International Journal Agronomy and Agricultural Research . ISSN: 2223-&054 (print) and 2225-3010 if online. <http://www.inn.Sopub.net> Vol 11, No.1 pp114-122, 2017.

6. Wesonga, P. S; **Mukoya-Wangia, S.** Maina, J. G. Njoka J. T. (2016). Profitability of Economic Stimulus Program (ESP) fish farming adopters in Makueni County, Kenya: International Journal of Fisheries and Agricultural Research, Vol. 2 No. 3 pp1—12 December, 2016.

7. Wesonga, P. S; **Mukoya-Wangia, S.** Maina, J. G. Njoka J. T. (2017). Enabling environment for fish farming as an alternative livelihood in Makueni, Kenya: International Journal of Fisheries and Agricultural Research, Vol. 5 No. 2 pp679—683 April, 2016.

8 Gitonga Steve.; **Wangia, S. M. Mukoya** (2016).” An evaluation of the influence of information sources on adoption of agroforestry practices in Kajiado Central Sub-County, Kenya”. Universal Journal of Agricultural Research 4(3) 71-77, 2016. <http://www.hrpub.org>

9. Amos W. Wawire, Sabina M. Wangia and Julius J. Okello.(2015). Determinants of use of Kenya agricultural Commodity Exchange Information and Communication Technologies . The case of smallholder farmers in Bungoma County, Kenya. Journal of Agricultural Sciences Vol. 9 No 3 (201 P128-137

10. Nyambok, Lydia and **Mukoya-Wangia 2015**. “Determinants of access and use of ICT based sources of Market information amongst finger millet farmers in Teso South, Kenya. *International Journal of Science: Basic and Applied Research (IJSBAR)*.

11. Maina, J.G, P G Mbuthia, J Ngugi, B Omolo, P Orina, **S M Wangia**, E G Karuri, T Maitho and G O Owiti 2014. “Influence of Social-economic factors, gender and the Fish Farming Enterprise and Productivity Project on fish farming practices in Kenya.” *Livestock research for rural Development* 26(2) 2014.

12. Amondo, E. Kironchi, G, and **Wangia S.** 2013. “Willingness to Pay for Improved Water Supply due to Spring Protection in Emuhaya District, Kenya.” *International Journal of Education and research* Vol.1. Issue no. 7 Pp193-206.

13. Million Sileshi , Nyikal ,R.A and **Wangia S.M.** 2012. Factors affecting loan repayment performance of smallholder farmers in Eastern Haraghe, Ethiopia , January, 2012, MSc thesis University of Nairobi. *Journal of Developing Country Studies*. Vol 2.Issue 11, pp 2015-213.

14. Musalia L.M., **Wangia, S.M**, Shibairo R S. and Vugutsa, V., 2010 Effects of policy change on the dairy production support services within the smallholder dairy farmers in Butere/Mumias and Kakamega Districts of Western Kenya. *AJAR* (2010) Vol. 5(8), pp661-667 .

15. Musalia L.M., **Wangia, S.M**, Shibairo R S. and Vugutsa, V. 2010 Effects of policy change on the dairy production support services within the smallholder dairy farmers in Butere/Mumias and Kakamega Districts of Western Kenya. *AJAR* (2010) Vol. 5(8), pp661-667.

16 S. Mukoya-Wangia, (2006) “An Analysis of Household Food Security Status in Western Kenya.” *Egerton Journal* Vol. VI, Number 2 & 3, p141-158.

17 . G. Owour, **S. Mukoya-Wangia**, S.O. Onyuma, P.M. Mshenga and Paul Gamba.2006. Self-Help Groups as a Social Capital for Agricultural Productivity: The Case of Smallholder Maize Farmers in Siaya, Kenya. *Egerton Journal* Vol. VI, Number 2 & 3, p 159-176.

18. Ithinji, G.K., Wasike, W.S.K., Mumera, L.M., and **Wangia, S.** 2002. “Modeling Selection of Agro-Technologies: The Case of Legume-Cereal Crop Sequencing in Njoro Division of Nakuru district, Kenya., *International Journal of Agriculture and Rural Development*. Vol. 3 (2002) p1

Technical Papers and Conference Proceedings

1.S.Onyango, S. Mukoya-Wangia,J. Kinama and P. Olet.Impact of tsetse and trypanosomiasis control on poverty: A case of Pate Island of Lamu County, Kenya.

2.Proceedings of the Animal Production Society of Kenya 2018 Scientific Symposium held on 4th to 6th April 2018 at Sportsman Arms Hotel, Nanyuki

3.Mukoya-Wangia, S.M., Maina, J.G., Wesonga, P.S., and Njoka, J.T. (2018).Factors influencing adoption of fish farming post economic stimulus programme in KibweMakueni county,Kenya.International conference at Umma University-Kajiado, Kenya from 21st-23rd November 2018. Blue Economy.

4Wesonga, P. S., Maina, J. G.and Mukoya-Wangia S.M,Fish farming as an alternative livelihood in Makueni County. Kenya (2017) Animal Production Society of Kenya (APSK) Scientific Symposium April 5-7, 2017 at Stardust Hotel, Eldoret, Kenya

5..Wesonga P.W, Wangia S.M, Njoka J.T, and Maina J.G. (2016). Profitability of Economic Stimulus Program (ESP) Fish Farming Adopters in Kibwezi, Makueni County, Kenya. In proceedings of the Animal Production Society of Kenya annual symposium Kenya's Animal Agriculture Macro-trends and Future Prospects Kisumu, Kenya. 27-29 October 2016

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12.Maina J, Mbuthis ,P.G, **Wangia, S.M**, J.N Ngugi, Karuri, E.G.Owiti, G.O. Omolo, B and Orina. P.Effects of management practices and economic stimulus program on fish production in Mwea Division of Kirinyaga County. Paper presented at the 8th Biennalscientific Conference and the 46thKenya Veterinary association Annual Scientific conference, 25th to 27th April 2012, Safari Park Hotel. Nairobi.

. **Mukoya-Wangia, S.** And Anderson V N. 2011. "Blending eLearning, an experience of University of Nairobi students." Proceedings of Biannual Agro Conference, Kabete, Kenya.

7 Maina J, Mbuthia, P.G, **Wangia, S.M**, J.N Ngugi, Karuri, E.G.Owiti, G.O. Omolo, B and Orina.P. Effects of management practices and economic stimulus program on fish production in Mwea Division of Kirinyaga County. Paper presented at the 8thBiennalscientific Conference and the 46thKenya Veterinary association Annual Scientific conference, 25th to 27th April 2012, Safari Park Hotel. Nairobi.

8 Okati, J. **Wangia, S.M**.et al. Impact of Climate and Seasonal Variability on Human and Livestock Livelihoods in Kajiado. A paper presented at the 7thBiennial Scientific Conference. Nairobi, April 2011.

9Wesonga, P. S.; **Mukoya-Wangia, S.** Maina, J. G. , Njoka, J. T Profitability of Economic Stimulus Program (ESP) fish farming in Kibwezi, Makueni County. Kenya (2016) Animal Production Society of Kenya (APSK) Scientific Symposium April 27-29, 2016 at Kisumu Hotel, Kisumu. Kenya

10.G. Owour, **Mukoya-Wangia** and Hugo Degorete, 2001: Impact of Self-Help Groups Credit on Input Use in Maize Production *in Siaya District*.

11.G. Owour, **Mukoya-Wangia** and Hugo Degorete, 2002. Impact of financial self-help groups on input use in agricultural production. The case of smallholder maize farmers in Siaya District, Kenya. Paper presented at the 7th Eastern and Southern Africa Regional Maize Conference and Symposium on Low-Nitrogen and Drought Tolerance in Maize. Held at KARI Nairobi, Kenya between 11-15 February, 2002.

12.18 J.K. Lagat, Bernard Njehia, **S.M Wangia** and Ithinji Gicuru, 2007. Environmental hazards in African Agriculture: Factors influencing application OF AGROCHEMICALS IN Nakuru District, Kenya. Book chapter in Advances in Integrated Soil Fertility Management in Sub-saharan Africa: challenges and opportunities (pp795-804). Published by Springer.

13. S. Franzel., T. Nanok., **S. Wangia** and L. Dewolf. 2007. "Collaborative monitoring and evaluation assessing the uptake of improved fallows and biomass transfer in Western Kenya." *Experimental Agriculture* (2007) volume 44, pp.1-15. Cambridge University Press.

14 L.M. Musalia., **S.M.M. Wangia.**, R.S. Shivairo.T. Okutu. And V. Vugutsa.2007. Dairy production practices among smallholder dairy farmers in Butere/Mumias and Kakamega districts in Western Kenya. *Tropical Journal of Animal Health and Animal Production*, Volume 39. pp. 199-205

15.Caleb, Hugo Degoreti and **Mukoya-Wangia.** Maize Marketing in Kenya: Implementation and Impact of Liberalization 1989-1999.

MEMBERSHIP

Member and Chairperson of Faculty of Agriculture Mentorship Committee

Member of Teaching Practice Committee CAVS and CEES

Member of African Agricultural Economics Association

Member of African Women in Agricultural Research and Development (AWARD)

County Representative member on Board of Management of St.

Mathias, Kholera High School. Matungu, Mumias. (Vice Chairperson) 2016 Oct to Oct-2018 to date

Education Secretary for Nairobi Yearly Meeting of Friends Church in Kenya 2012-2015.

Coopted member of Friends Church Education Commission 2017-todate.

Christian Women Representative for Friends Church Women on All African Conference of Churches

Member of Christian Women of Kenya 2018 to date.

Active and committed member and Women Ministry Leader of Friends Church, Ngong' Road. for 9 years .

Associate member of the United Kenya Club : 2007 to date.

COMMUNITY SERVICE AND OUTREACH

1. Care, support and mentorship of vulnerable youth and women at University and in the religious and societal initiatives.
2. Pushing for Higher Education Loans Board funds for special case students at tertiary and University levels.
3. Fundraising for school fees payment for challenging cases in primary and high schools.
4. Visitation of the sick and the elderly, Mbagathi hospital and Nyumba ya Wazee (The Elderly homes), SOS children home.
5. Planted trees at Vet Lab primary school as a demonstration for future young farmers.
6. Scholarship /bursary and HELB volunteer facilitator for University students.
7. A founder patron of Friends Children Development Initiative (FCDI), which, has school feeding, and educating programs.
8. Facilitator of 15 scholarships from USAID for PEPFAR purpose,

HOBBIES

Commercial maize and sugarcane farmer

Supporter and Advocate for social justice and concerns for the unprivileged.

Volunteer and participant in community socio-economic activities