

CURRICULUM VITAE

AREGA D. ALENE

Agricultural Economist (Senior Scientist)

IITA-Malawi, P.O. Box 30258, Lilongwe, Malawi

Education

Degrees/Diplomas	Institution
BSc Agricultural Economics (with distinction)	Alemaya University of Agriculture, Ethiopia (Sept 1989-Aug 1992)
Certificate – Graduate Courses in Environmental Economics and Policy (CGPA 4.0 / 4.0)	University of Pretoria, South Africa (June – Dec 2002)
Certificate in Ecological and Environmental Economics (Advanced courses taught by Nobel Prize winners Robert Solow and Kenneth Arrow as well as other renowned environmental and resource economists)	Trieste International Centre for Theoretical Physics, Italy (Jan-Feb 2003)
PhD Agricultural Economics Thesis title: Improved production technology and efficiency of smallholder farmers in Ethiopia: Extended parametric and non-parametric approaches to production efficiency analysis	University of Pretoria, South Africa (Jan 2000-Sept 2003)

Experience

Positions/Responsibilities:

- ☐ Postdoctoral Fellow (2003-2006): IITA, Ibadan, Nigeria.
- ☐ Impact Economist (2007-2015): IITA, Lilongwe, Malawi.
- ☐ Agricultural Economist (2015-Present): IITA, Lilongwe, Malawi.
- ☐ Country Representative, IITA-Malawi (2011-Present): IITA, Lilongwe, Malawi.
- ☐ Coordinator, CGIAR Research Program Policies, Institutions, and Markets (PIM) (2015-Present): IITA, Lilongwe, Malawi.
- ☐ Flagship Program Leader, Priority Setting & Impact Acceleration, CGIAR Research Program on Grain Legumes and Dryland Cereals (GLDC) (2017-Present): IITA, Lilongwe, Malawi.

Achievements:

- ☐ Carried out strategic analyses of research investments and technology options for better targeting and priority setting of agricultural research.
- ☐ Led socioeconomic studies on the profitability and end-user preferences of improved crop varieties and agronomic practices to guide technology development and seed delivery efforts.
- ☐ Led socioeconomic and policy studies on the extent, determinants (social, economic, institutional, and policy factors), and impacts of adoption of production technologies and related innovations.
- ☐ Provided leadership/backstopping for project impact evaluation involving baseline and follow-up studies undertaken by project teams in target countries.

- ☐ Developed methodologies and databases for tracking the economic and poverty reduction impacts of IITA technologies.
- ☐ Published and communicated research findings on policy options and recommendations to guide research priority setting efforts and to promote widespread adoption of new varieties and practices.
- ☐ Contributed to capacity strengthening of national partners and training of postgraduate students (supervised/examined 3 PhD and 3 MSc students).
- ☐ Carried out strategic analyses of research investments and technology options for better targeting and priority setting of agricultural research.
- ☐ Developed methodologies for the multi-center ex-ante evaluation and priority assessment for the CGIAR Research Program on Roots, Tubers, and Bananas (RTB) and led the global priority assessment of cassava research and technology options.
- ☐ Coordinated IITA's research under the CGIAR Research Program on Policies, Institutions, and Markets (PIM) in the areas of strategic foresight and ex-ante evaluation, value chains, and seed systems policies for vegetatively propagated crops.
- ☐ Provided leadership, oversight, and backstopping to IITA's programs and projects in Malawi. This also involves: (1) facilitating IITA program/project partnerships with Malawi Government, NGOs, and the private sector; and (2) supporting and monitoring project activities (field days, monitoring tours, regular review and planning meetings, etc.).
- ☐ Provided leadership and oversight for administration and finance at IITA-Malawi.

Key qualifications

- ☐ Strategic foresight and ex-ante impact analysis.
- ☐ Priority assessment of strategic research programs as well as research and technology options. This involves ex-ante analysis of the potential economic and poverty reduction impacts of strategic commodity programs and technology options to guide R4D priority setting with a view to enhancing the impacts of research investments.
- ☐ Farmer and end-user preference studies of improved crop varieties to guide technology development and seed delivery efforts.
- ☐ Socioeconomic and policy studies on the extent and determinants (social, economic, institutional, and policy factors) of adoption of production technologies and related innovations.
- ☐ Ex-post impact assessment of improved agricultural technologies on crop yields, incomes, and poverty reduction.
- ☐ Agricultural policy analysis.
- ☐ International agricultural development.
- ☐ Agricultural productivity growth and poverty reduction.
- ☐ Natural resources and environmental economics.

Refereed Journal Articles

1. Alene, A.D., D. Poonyth and R.M. Hassan (2000). Determinants of adoption and intensity of utilization of improved maize varieties in the central highlands of Ethiopia: A tobit analysis. **Agrekon** 39(4):633-643.

2. Alene, A.D. and R.M. Hassan (2003). Determinants of technical efficiency among adopters of improved maize production technology in Western Ethiopia. **Agrekon** 42(1):1-14.
3. Alene, A.D. and R.M. Hassan (2003). Total factor productivity and resource use efficiency of alternative cropping systems in two agro-climatic zones in Eastern Ethiopia. **Agricultural Economics Review** 4(2):32-46.
4. Alene, A.D. and M. Zeller (2005). Technology adoption and farmer efficiency in multiple crops production in eastern Ethiopia: A comparison of parametric and non-parametric distance functions. **Agricultural Economics Review** 6(1): 5-17.
5. Alene, A.D., R.M. Hassan and M. Demeke (2005). The technical and cost efficiencies of hybrid maize producers in Western Ethiopia. **Quarterly Journal of International Agriculture** 44(2):167–181.
6. Alene, A.D., M. Zeller, S. Schwartz and N. Dar (2005). The extent and determinants of production efficiency of farmers in the rainforest margins in Central Sulawesi, Indonesia: Implications for land use and support services. **Quarterly Journal of International Agriculture** 44(4):335–353.
7. Alene, A.D. and R. M. Hassan (2006). The efficiency of traditional and hybrid maize production in Ethiopia: An extended efficiency decomposition approach. **Journal of African Economies** 15(1): 91–116.
8. Alene, A.D. and V.M. Manyong (2006). Farmer-to-farmer technology diffusion and yield variation among adopters: the case of improved cowpea in northern Nigeria. **Agricultural Economics** 35(2): 203–211.
9. Alene, A.D. and V.M. Manyong (2006). Testing farmers' cropping decisions and varietal adoption behavior: the case of cowpea producers in northern Nigeria. **Journal of Agricultural and Food Economics** 1(1): 1–15.
10. Alene, A.D., V.M. Manyong and J. Gockowski (2006). The production efficiency of intercropping annual and perennial crops production in southern Ethiopia: a comparison of distance functions and production frontiers. **Agricultural Systems** 91(1/2): 51–70.
11. Alene, A.D., V.M. Manyong and O. Coulibaly (2006). Responding to food supply shocks through global partnerships in technology development and transfer: the case of the IITA-led biological control of cassava mealybug in sub-Saharan Africa. **Outlook on Agriculture** 35(4):255–261.
12. Alene, A.D. and V.M. Manyong (2006). Endogenous technology adoption and household food security: the case of improved cowpea varieties in northern Nigeria. **Quarterly Journal of International Agriculture** 45(3):211–230.
13. Alene, A.D. and V.M. Manyong, E. Tollens and S. Abele (2007). Targeting agricultural research based on potential impacts on poverty reduction: strategic program priorities by agro-ecological zone in Nigeria. **Food Policy** 32(3):394–412.
14. Alene, A.D. (2007). Unexploited food production potentials of new varieties: evidence from hybrid maize production in western Ethiopia. **Outlook on Agriculture** 36(3):181–186.
15. Alene, A.D. and V.M. Manyong (2007). The effects of education on agricultural productivity under traditional and improved technology in northern Nigeria: an endogenous switching production analysis. **Empirical Economics** 32(1):141–159.
16. Alene, A.D. and V.M. Manyong (2007). Gains from high-yielding varieties with and without complementary technologies: the case of improved cowpea technologies in northern Nigeria. **Journal of Agricultural and Food Economics** 2(1):1–14.

17. Alene, A.D. and R.M. Hassan (2008). Food production efficiency under traditional and improved technology in a developing economy: the case of farmers within and outside the extension package program in Ethiopia. **Journal of Developing Areas** 41(2): 233–249.
18. Alene, A.D., V.M. Manyong, G. Omany, H.D. Mignouna and M. Bokanga (2008). Economic efficiency and supply response of women as farm managers: comparative evidence from western Kenya. **World Development** 36(7):1247–1260.
19. Alene, A.D., V.M. Manyong, G. Omany, H.D. Mignouna and M. Bokanga (2008). Smallholder market participation under transactions costs: maize supply and fertilizer demand in Kenya. **Food Policy** 33(4):318–328.
20. Tipilda, A., A.D. Alene and V.M. Manyong (2008). Engaging with cultural practices in ways that benefit women in northern Nigeria. **Development in Practice** 18(4):551–563.
21. Alene, A.D., V.M. Manyong, E. Tollens and S. Abele (2009). Efficiency–equity tradeoffs and the scope for resource reallocation in agricultural research: evidence from Nigeria. **Agricultural Economics** 40(1):1–14.
22. Alene, A.D. and O. Coulibaly (2009). The impact of agricultural research on productivity and poverty in sub-Saharan Africa. **Food Policy** 34(2): 198–209.
23. Alene, A.D., A. Menkir, S.O. Ajala, B. Badu-Apraku and A.S. Olanrewaju (2009). The economic and poverty impacts of maize research in West and Central Africa. **Agricultural Economics** 40(5):535–550.
24. Olayide, O., A.D. Alene and A. Ikpi (2009). Manure marketing in the savannas of Nigeria: implications for sustainable food security. **Journal of Food, Agriculture & Environment** 7(2): 540–545.
25. Olayide, O., A.D. Alene and A. Ikpi (2009). Determinants of fertilizer use in northern Nigeria. **Pakistan Journal of Social Sciences** 6(2): 91–98.
26. Akinola, A.A., A.D. Alene, R. Adeyemo, D. Sanogo and A.S. Olanrewaju (2009). Impacts of balanced nutrient management systems technologies in the northern Guinea savanna of Nigeria. **Journal of Food, Agriculture & Environment** 7(2): 496–504.
27. Akinola, A.A., A.D. Alene, R. Adeyemo, D. Sanogo and A.S. Olanrewaju (2009). Economic impacts of soil fertility management research in West Africa. **African Journal of Agricultural & Resource Economics** 3(2): 159–175.
28. Akinola, A.A., A.D. Alene, R. Adeyemo, D. Sanogo, A.S. Olanrewaju and C. Nwoke (2010). Determinants of adoption and intensity of use of Balanced Nutrient Management Systems Technologies in the Northern Guinea Savanna of Nigeria. **Quarterly Journal of International Agriculture** 49(1): 25–45.
29. Alene, A.D. (2010). Productivity growth and the effects of R&D in African agriculture. **Agricultural Economics** 41(3/4): 223–238.
30. Bamire, A.S., T. Abdoulaye, P. Amaza, A. Tegbaru, A. D. Alene and A.Y. Kamara (2010). Impact of promoting sustainable agriculture in Borno (PROSAB) program on adoption of improved crop varieties in Borno State of Nigeria. **Journal of Food, Agriculture & Environment** 8(3&4): 391–398.
31. Olayide, O., A. Ikpi, A.D. Alene and Vincent Akinyosoye (2011). Assessing Farm-level Limitations and Potentials for Organic Agriculture by Agro-ecological Zones and Development Domains in Northern Nigeria of West Africa. **Journal of Human Ecology** 34(2): 75–85.
32. Alene, A.D., R. Khataza, C. Chibwana, P. Ntawuruhunga and C. Moyo (2013). Economic impacts of cassava research and extension in Malawi and Zambia. **Journal of Development and Agricultural Economics** 5(11): 457–469.

33. Mignouna, D.B., T. Abdoulaye, A.D. Alene, B. Aighewi, O. Pelemo, V.M. Manyong, R. Asiedu and M. Akoroda (2013). Economic Analysis of Seed Yam Production Systems in Nigeria. **Journal of Root Crops** 39 (2): 221–229.
34. Rusike, J., N.M. Mahungu, S.S. Lukombo, T. Kendenga, S.M. Bidiaka, A.D. Alene, A. Lema and V.M. Manyong (2014). Does a cassava research-for-development program have impact at the farm level? Evidence from the Democratic Republic of Congo. **Food Policy** 46:193–204.
35. Abdoulaye, T., A. Abass, B. Maziya-Dixon, G. Tarawali, R. Okechukwu, J. Rusike, A.D. Alene, V.M. Manyong and B. Ayedun (2014). Awareness and adoption of improved cassava varieties and processing technologies in Nigeria. **Journal of Development and Agricultural Economics** 6(2): 67–75.
36. Asres, E., M. Nohmi, K. Yasunobu, A. Ishida and A.D. Alene (2014). The effect of agricultural extension service on technical efficiency of *teff* producers in Ethiopia. **American Journal of Applied Sciences** 11(2): 223–239.
37. Awotide, B.A., T. Abdoulaye, A.D. Alene and V.M. Manyong (2014). Assessing the extent and determinants of adoption of improved cassava varieties in south-western Nigeria. **Journal of Development and Agricultural Economics** 6(9):376–385.
38. Khonje, M., J. Manda, A.D. Alene and M. Kassie (2015). Analysis of Adoption and Impacts of Improved Maize Varieties in Eastern Zambia. **World Development** 66: 695–706.
39. Mignouna, D.B., T. Abdoulaye, A.D. Alene, R. Asiedu, V. Manyong, P.N. Dontsop, J.H. Ainembabazi, and R. Asiedu (2015). A Micro-econometric Analysis of Household Consumption Expenditure Determinants in Yam-growing Areas of Nigeria and Ghana. **Tropicultura** 33(3): 226–237.
40. Mignouna, D.B., T. Abdoulaye, A. Akinola, A.D. Alene and F. Nweke (2015). Factors influencing the use of selected inputs in yam production in Nigeria and Ghana. **Journal of Agriculture and Rural Development in the Tropics and Subtropics** 116(2):131–142.
41. Manda, J., A.D. Alene, C. Gardebroek, M. Kassie and G. Tembo (2016). Adoption and Impacts of Sustainable Agricultural Practices on Maize Yields and Incomes: Evidence from Rural Zambia. **Journal of Agricultural Economics** 67(1):130–152.
42. Awotide, B.A., A.D. Alene, T. Abdoulaye and V.M. Manyong (2016). Impact of agricultural technology adoption on asset ownership: the case of improved cassava varieties in Nigeria. **Food Security** 7:1239–1258.
43. Manda, J., M. Khonje, A.D. Alene, M. Kassie and M. Mutenje (2016). Determinants of Child Nutritional Status in the Eastern Province of Zambia: The Role of Improved Varieties. **Food Security** 8:239–253.
44. Dontsop-Nguezet, P., V.M. Manyong, T. Abdoulaye, M.S. Amato, J.H., Ainembabazi, D. Mignouna and C. Okafor (2016). Non-farm Activities and Adoption of Improved Cassava and Beans Varieties in South-Kivu, DR Congo. **Tropicultura** 34(3):262–275.
45. Feleke, S., V.M. Manyong, T. Abdoulaye and A.D. Alene (2016). Assessing the impacts of cassava technology on poverty reduction in Africa. **Studies in Agricultural Economics** 118(2):101–111.
46. Manda, J., A.D. Alene, C. Mukuma and D. Chikoye (2017). Ex-ante welfare impacts of adopting maize-soybean rotation in Eastern Zambia. **Agriculture, Ecosystems, and Environment** 249:22–30.
47. Wossen, T., T. Abdoulaye, A.D. Alene, S. Feleke and V. Manyong (2017). Measuring the Impacts of Adaptation Strategies to Drought Stress: The Case of Drought Tolerant Maize. **Journal of Environmental Management** 203:106–113.

48. Wossen, T., T. Abdoulaye, A.D. Alene, S. Feleke, J. Ricker-Gilbert, V. Manyong and B.A. Awotide (2017). Productivity and welfare effects of Nigeria's mobile phone based input subsidy program. **World Development** 97:251–265.
49. Wossen, T., T. Abdoulaye, A.D. Alene, S. Feleke and V. Manyong (2017). The impacts of extension access and cooperative membership on technology adoption and household welfare: Empirical evidence from Nigeria. **Journal of Rural Studies** 54:223–233.
50. Kotu, B., A.D. Alene, V.M. Manyong, I. Hoeschle-Zeledon and A. Larbi (2017). Adoption of sustainable intensification practices in Ghana. **International Journal of Agricultural Sustainability**. <https://dx.doi.org/10.1080/14735903.2017.1369619>
51. Manda, J., M. Khonje, A.D. Alene and T. Gondwe (2017). Welfare impacts of improved groundnut varieties in eastern Zambia: A heterogeneous treatment effects approach. **Agrekon**. <https://doi.org/10.1080/03031853.2017.1400447>.
52. Mignouna, D.B., T. Abdoulaye, A. Akinola, A.D. Alene, A. Oparinde, V.M. Manyong, N. Maroya and R. Asiedu (2017). A Two-stage Empirical Analysis of Market Participation in Yam-growing Areas of West Africa. **Tropicultura** 35(4): 262–274.
53. Ainembabazi, J.H., T. Abdoulaye, S. Feleke, A.D. Alene, P.M. Dontsop, P.C. Ndayisaba, C. Hicintuka, S. Mapatano and V.M. Manyong (2018). Who benefits from which agricultural research-for-development technologies? Evidence from farm household poverty analysis in Central Africa. **World Development** 108: 28–46.
54. Wossen, T., T. Abdoulaye, A.D. Alene, P. Nguimkeu, S. Feleke, M. Haile, I. Rabbi & V. Manyong (2018). Measuring the Productivity Impacts of Technology Adoption in the Presence of Misclassification. **American Journal of Agricultural Economics**. <https://dx.doi.org/10.1093/ajae/aay017>.
55. Wossen, T., T. Abdoulaye, A.D. Alene, P. Nguimkeu, S. Feleke, M. Haile, I. Rabbi & V. Manyong (2018). Measuring the Productivity Impacts of Technology Adoption in the Presence of Misclassification: Author Response to Comment. Forthcoming in **American Journal of Agricultural Economics**.
56. Khonje, M., P. Mkandawire, J. Manda, A. Tufa, and A.D. Alene (2018). Adoption and Welfare Impacts of Multiple Agricultural Technologies: Panel Data Evidence from Eastern Zambia. **Agricultural Economics** 49(5):599-609.
57. Manda, J., C. Gardebreek, E. Kuntashula, and A.D. Alene (2018). The Impact of Improved Maize Varieties on Household Food Security in Eastern Zambia: A Doubly Robust Analysis. **Review of Development Economics**. <https://doi.org/10.1111/rode.12516>.
58. Wossen, T., A.D. Alene, T. Abdoulaye, S. Feleke, I. Rabbi, and V. Manyong. Poverty reduction effects of technology adoption: the case of improved cassava varieties in Nigeria. **Journal of Agricultural Economics**. <https://doi.org/10.1111/1477-9552.12296>.
59. Alene, A.D., T. Abdoulaye, J. Rusike, R. Labarta, B. Creamer, M. del Río, H. Ceballos and L. Becerra. Assessing technology priorities for food crops based on potential economic and poverty reduction impacts: the case of cassava in Africa, Asia, and Latin America. **PLoS ONE** 13(8): e0201803. <https://doi.org/10.1371/>.
60. Yami, M., S. Feleke, T. Abdoulaye, A.D. Alene, Z. Bamba, and V. Manyong (2019). African Rural Youth Engagement in Agribusiness: Achievements, Limitations and Lessons. **Sustainability**. <https://doi.org/10.3390/su11010185>.
61. Khataza, R.B., A. Hailu, G.J. Doole, M.E. Kragt, and A.D. Alene (2019). Examining the relationship between farm size and productive efficiency: a Bayesian directional distance function approach. **Agricultural Economics**. <https://doi.org/10.1111/agec.12480>.
62. Manda, J., A.D. Alene, A.H. Tufa, T. Abdoulaye, O. Olufajo, A.Y. Kamara, O. Boukar, and V. Manyong (2019). Adoption and Ex-Post Impacts of Improved Cowpea Varieties on Productivity, Net Returns and Costs in Nigeria. Forthcoming in **Journal of Agricultural Economics**.

Papers under Review

1. Dontsop et al. The impact of cropping system intensification technologies on poverty reduction in the Great Lakes region of central Africa. Submitted to **World Development**.
2. Manda, J., C. Gardebroek, A.H. Tufa, M. Khonje, and A.D. Alene. Analyzing interregional soybean market integration in Malawi. Submitted to **Agrekon**.
3. Wossen, T., T. Abdoulaye, A.D. Alene, M. Kassie, S. Feleke, V. Manyong. Agricultural Technology Adoption and Household Welfare: Evidence from DNA-based Adoption Data. Under review with **Food Policy**.
4. Manda, J., A. Tufa, A.D. Alene, M. Mutenje, P. Setimela, T. Abdoulaye, V.M. Manyong. Cooperative membership and the speed of agricultural technology adoption: Empirical evidence from Zambia. Submitted to **Technological Forecasting and Social Change**.
5. Gbegbelegbe, S., A.D. Alene, C.Y. Chan, M. Diagne, D. Enahoro, R. Fiamohe, E. Kikulwe, M. Marshall, N. Swamikannu, K. Tesfaye, T. Thomas. Agricultural development options for Sub-Saharan Africa under a changing climate. Submitted to **Global Food Security**.
6. Kruseman, G., K. Mottaleb, K. Tesfaye, R. Robertson, S. Bairagi, D. Mandiaye, A. Frija, S. Gbegbelegbe, A. Alene, S. Prager. Using rural transformation to understand the future of cereal-based agri-food systems. Submitted to **Global Food Security**.
7. Gbegbelegbe, S., A.D. Alene, A.Y. Kamara, K. Wiebe, V. Manyong, T. Abdoulaye, P. Mkandawire. Ex-ante evaluation of promising soybean innovations for sub-Saharan Africa. Submitted to **Food and Energy Security**.
8. A. Tufa et al. The yield and income effects of adoption of improved soybean varieties and agronomic practices in Malawi. Submitted to **World Development**.
9. A. Tufa et al. Adoption and poverty impacts of improved soybean varieties and agronomic practices in Malawi. Submitted to **Food Security**.
10. Julius Manda., Arega D. Alene, Adane H Tufa, Tahirou Abdoulaye, Alpha Y. Kamara, David Chikoye and Victor Manyong. The Impact of Improved Cowpea Varieties on Poverty in Nigeria: A Counterfactual Analysis Approach. Submitted to **World Development**.
11. G. Kruseman et al. Using rural transformation to understand the future of cereal-based agri-food systems. Under review with **Global Food Security**.
12. Adane Hirpa Tufa, Joseph Athenkeng, Arega Alene, Julius Manda, David Chikoye Aflatoxin management and potential for aflasafe commercialization in Malawi. Under preparation for submission to the **Journal of Food Control**.

Other Publications

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1. Manyong, V.M., D. Sanogo, and A.D. Alene (2009). The International Institute of Tropical Agriculture's (IITA) Experience in Priority Assessment of Agricultural Research. Chapter 4 in Raitzer, D.A. and G.W. Norton (Eds.), *Prioritizing Agricultural Research for Development: Experiences and Lessons*. CABI Publishing, UK.
 2. Alene, A.D., P. Neuenschwander, V.M. Manyong, O. Coulibaly, and R. Hanna (2005). The Impact of IITA-led biological control of major pests in sub-Saharan African Agriculture. **IMPACT**, IITA, Ibadan, Nigeria.
 3. Alene, A.D., V.M. Manyong, J. Gockowski, O. Coulibaly, and S. Abele (2006). A framework for conceptualizing impact assessment and promoting impact culture in agricultural research. **IMPACT**, IITA, Ibadan, Nigeria.
 4. Manyong, V.M., A.D. Alene, D. Sanogo, O. Coulibaly, S. Abele, and G.-B. Nkamleu (2006). Achievements in impact assessment of agricultural research: IITA experience, 2001–2006. **IMPACT**, IITA, Ibadan, Nigeria.

5. Alene, A.D. (2007). Unexploited yield and profitability potentials of new varietal technologies: the case of hybrid maize in western Ethiopia. Pages 388–401 *in* B. Badu-Apraku, M.A.B. Fakorede, A.F. Lum, A. Menkir, and M. Ouedraogo (eds.), *Demand-Driven Technologies for Sustainable Maize Production in West and Central Africa*. Proceedings of the fifth biennial regional maize workshop, IITA-Cotonou, Bénin, 3–6 May 2005. WECAMAN/IITA, Ibadan, Nigeria.
6. Manyong, V.M., Nindi, S. J., A.D. Alene, G.D. Odhiambo, G. Omany, H. Mignouna, and M. Bokanga (2008). Farmer Perceptions of Imazapyr-Resistant (IR) Maize on the Control of Striga in Western Kenya. Research Report, African Agricultural Technology Foundation (AATF), Nairobi, Kenya.
7. Manyong, V.M., A.D. Alene, A.S. Olanrewaju, B. Ayedun, V. Rweyendela, A.S. Wesonga, G. Omany, H.D. Mignouna, M. Bokanga (2008). Baseline Study of Striga Control Using Imazapyr-Resistant (IR) Maize in Western Kenya. Research Report, African Agricultural Technology Foundation (AATF), Nairobi, Kenya.
8. Manyong, V.M., D. Sanogo, and A.D. Alene (2009). The International Institute of Tropical Agriculture's (IITA) Experience in Priority Assessment of Agricultural Research. Chapter 4 *in* Raitzer, D.A. and G.W. Norton (Eds.), *Prioritizing Agricultural Research for Development: Experiences and Lessons*. CABI Publishing, UK.
9. Alene, A., Y. Yigezu, J. Ndjeunga, R. Labarta, R. Andrade, A. Diagne, R. Muthoni, F. Simtowe, and T. Walker. 2011. Measuring the Effectiveness of agricultural R&D in Sub-Saharan Africa from the Perspectives of Varietal Output and Adoption: Initial Results from the Diffusion of Improved Varieties in Africa Project. Conference Working Paper 7, Agricultural Science and Technology Indicators, IFPRI, Washington, D.C. USA.
10. Manyong, V.M., A.D. Alene, T. Abdoulaye, J. Rusike, E. Ouma, M. Yade, O. Coulibaly, J. Gockowski, A. Tegbaru, and H. Kirscht (2011). IITA Social Science Research Agenda for the Next Decade. IITA, Ibadan, Nigeria.
11. Manyong, V.M., A.D. Alene, J. Rusike, and T. Abdoulaye (Eds.) (2011). Outcome and impact assessment at IITA: Issues and evidence. Proceedings of a mini-symposium on outcome and impact assessment at IITA, 24 Nov. 2010, Ibadan, Nigeria. IITA, Ibadan, Nigeria.
12. Lopez, K. and A.D. Alene (Eds.) (2011). R4D Review, Social Sciences at IITA, Issue #7, pp 60. IITA, Ibadan, Nigeria.
13. Alene, A.D. (2011). The benefits of social science: Editor's Note. Page 2 *in* R4D Review: Social Sciences at IITA, Issue #7, edited by K. Lopez and A.D. Alene. IITA, Ibadan, Nigeria.
14. Alene, A.D. (2011). Amazing Maize: Investment in agricultural research pays off. Pages 10–11 *in* R4D Review: Social Sciences at IITA, Issue #7, edited by K. Lopez and A.D. Alene. IITA, Ibadan, Nigeria.
15. Alene, A.D. (2011). What sustains the productivity of African agriculture? Pages 14–15 *in* R4D Review: Social Sciences at IITA, Issue #7, edited by K. Lopez and A.D. Alene. IITA, Ibadan, Nigeria.
16. Abate, T., A.D. Alene, D. Bergvinson, B. Shiferaw, S. Silim, A. Orr, and S. Asfaw (2012). Tropical Grain Legumes in Africa and South Asia: Knowledge and Opportunities. PO Box 39063, Nairobi, Kenya: International Crops Research Institute for the Semi-Arid Tropics. 112 pp. ISBN: 978-92-9066-544-1.
17. Alene, A.D., M. Khonje, T. Abdoulaye, P. Kulakow and V.M. Manyong (2012). Adoption of Improved Cassava Varieties in Southwestern Nigeria. Diffusion and Impact of Improved Varieties in Africa (DIIVA), Objective 2 Technical Report. IITA, Lilongwe, Malawi.

18. Alene, A.D., M. Khonje, J. Mwalughali, C. Chafuwa, A. Longwe, B. Khataza, E. Kapalasa, I. Madzorera, T. Gondwe, M. Mussagy, P. Ntawuruhunga, S. Boahen, B. Maziya-Dixon and D. Chikoye (2013). Baseline characterization of production and markets, technologies and preferences, and livelihoods of smallholder farmers and communities affected by HIV/AIDS in Malawi. IITA, Ibadan, Nigeria.
19. Alene, A.D., M. Khonje, J. Mwalughali, C. Chafuwa, A. Longwe, B. Khataza, E. Kapalasa, I. Madzorera, T. Gondwe, M. Mussagy, P. Ntawuruhunga, S. Boahen, B. Maziya-Dixon and D. Chikoye (2013). Baseline characterization of production and markets, technologies and preferences, and livelihoods of smallholder farmers and communities affected by HIV/AIDS in Mozambique. IITA, Ibadan, Nigeria.
20. Alene, A.D., M. Khonje, J. Mwalughali, C. Chafuwa, A. Longwe, B. Khataza, E. Kapalasa, I. Madzorera, T. Gondwe, M. Mussagy, P. Ntawuruhunga, S. Boahen, B. Maziya-Dixon, and D. Chikoye (2013). Baseline characterization of production and markets, technologies and preferences, and livelihoods of smallholder farmers and communities affected by HIV/AIDS in Zambia. IITA, Ibadan, Nigeria.
21. Alene, A.D., M. Khonje, J. Mwalughali, C. Chafuwa, A. Longwe, B. Khataza, E. Kapalasa, I. Madzorera, T. Gondwe, M. Mussagy, P. Ntawuruhunga, S. Boahen, B. Maziya-Dixon and D. Chikoye (2013). Baseline characterization of production and markets, technologies and preferences, and livelihoods of smallholder farmers and communities affected by HIV/AIDS in Swaziland. IITA, Ibadan, Nigeria.
22. Walker, T., A.D. Alene, J. Ndjeunga, R. Labarta, Y. Yigezu, A. Diagne, R. Andrade, A.R. Muthoni, H. De Groote, K. Mausch, C. Yirga, F. Simtowe, E. Katungi, W. Jogo, M. Jaleta and S. Pandey (2014). Measuring the Effectiveness of Crop Improvement Research in Sub-Saharan Africa from the Perspectives of Varietal Output, Adoption, and Change: 20 Crops, 30 Countries, and 1150 Cultivars in Farmers' Fields. Report of the Standing Panel on Impact Assessment (SPIA), CGIAR Independent Science and Partnership Council (ISPC) Secretariat: Rome, Italy.
23. Mignouna, D.B., T. Abdoulaye, A.D. Alene, A. Akinola and N. Maroya (2014). Baseline protocols: the case of Yam Improvement for Income and Food Security in West Africa (YIIFSWA) project; YIIFSWA working paper series, No. 4. IITA, Ibadan, Nigeria.
24. Mignouna, D.B., T. Abdoulaye, A.D. Alene, R. Asiedu and V. Manyong (2014). Characterization of yam-growing households in the project areas of Nigeria. IITA, Ibadan, Nigeria.
25. Mignouna, D.B., T. Abdoulaye, A.D. Alene, R. Asiedu and V. Manyong (2014). Characterization of yam-growing households in the project areas of Ghana. IITA, Ibadan, Nigeria.
26. Pems, D.E., C. Staver, B. Creamer, T. Abdoulaye, A.D. Alene and J. Rusike (2014). Major constraints, opportunities and trends for banana production and marketing and priorities for future RTB banana research: Results of a global online expert survey. Lima (Peru). CGIAR Research Program on Roots, Tubers and Bananas (RTB). RTB Working Paper 2014-2. (<http://www.rtb.cgiar.org/category/resources/working-papers/>)
27. Creamer, B, J. Rusike, C. Gonzalez, J. Rodriguez, T. Abdoulaye and A.D. Alene (2014). Prioritization of options for Cassava research for development: Results from a global expert survey. Lima (Peru). CGIAR Research Program on Roots, Tubers and Bananas (RTB). RTB Working Paper 2014-6. (<http://www.rtb.cgiar.org/category/resources/working-papers/>)
28. Abdoulaye, T., A.D. Alene, J. Rusike and A. Adebayo (2014). Major constraints, opportunities, and trends for yam production and marketing and priorities for future

- RTB yam research: Results of a global online expert survey. Lima (Peru). CGIAR Research Program on Roots, Tubers and Bananas (RTB). RTB Working Paper 2014-3. (<http://www.rtb.cgiar.org/category/resources/working-papers/>)
29. Alene, A.D., J. Oleke, J. Rusike, T. Abdoulaye, B. Creamer, M. Del Río and J. Rodriguez (2014). Strategic Assessment of Cassava Research Priorities. Lima (Peru). CGIAR Research Program on Roots, Tubers and Bananas (RTB). RTB Working Paper 2014-5. (<http://www.rtb.cgiar.org/category/resources/working-papers/>)
 30. Abdoulaye, T., A.D. Alene, J. Rusike and A. Adebayo (2014). Strategic Assessment of Yam Research Priorities. Lima (Peru). CGIAR Research Program on Roots, Tubers and Bananas (RTB). RTB Working Paper 2014-3. (<http://www.rtb.cgiar.org/category/resources/working-papers/>)
 31. Alene, A.D., T. Abdoulaye, J. Rusike, V. Manyong and T.S. Walker (2015). The effectiveness of crop improvement programmes from the perspectives of varietal output and adoption: cassava, cowpea, soybean and yam in Sub-Saharan Africa and maize in west and central Africa. Chapter 6 *in* Crop improvement, adoption and impact of improved varieties in food crops in Sub-Saharan Africa, edited by T.S. Walker and J. Alwang. CGIAR and CAB International.
 32. Walker, T.S., A.D. Alene, J. Ndjunga, R. Labarta, Y. Yigezu, A. Diagne, R. Andrade, R. Muthon Andriatsitohaina, H. De Groote, K. Mausch, C. Yirga, F. Simtowe, E. Katungi, W. Jogo, M. Jaleta, S. Pandey and D. Kumara Charyulu (2015). Varietal generation and output. Chapter 18 *in* Crop improvement, adoption and impact of improved varieties in food crops in Sub-Saharan Africa, edited by T.S. Walker and J. Alwang. CGIAR and CAB International.
 33. Walker, T.S., J. Alwang, A.D. Alene, J. Ndjunga, R. Labarta, Y. Yigezu, A. Diagne, R. Andrade, R. Muthon Andriatsitohaina, H. De Groote, K. Mausch, C. Yirga, F. Simtowe, E. Katungi, W. Jogo, M. Jaleta, S. Pandey and D. Kumara Charyulu (2015). Varietal adoption, outcomes and impact. Chapter 19 *in* Crop improvement, adoption and impact of improved varieties in food crops in Sub-Saharan Africa, edited by T.S. Walker and J. Alwang. CGIAR and CAB International.

Conference Presentations

1. Determinants of technical efficiency among adopters of improved maize production technology in Western Ethiopia. Paper presented at the 40th Annual Conference of the Agricultural Economics Society of South Africa. Bloemfontein, September 18-20, 2002. (with R.M. Hassan).
2. Total factor productivity and resource use efficiency of alternative cropping systems and technologies across agro-climatic zones in Eastern Ethiopia. Paper presented at the 40th Annual Conference of the Agricultural Economics Society of South Africa. Bloemfontein, September 18-20, 2002. (with R.M. Hassan).
3. Determinants of adoption and intensity of utilization of improved maize varieties in the central highlands of Ethiopia: A tobit analysis. Paper presented at the 38th Annual Conference of the Agricultural Economics Society of South Africa. Sun City, September 27-29, 2000. (with D. Poonyth and R.M. Hassan).
4. The technical, allocative, and economic efficiency of maize production under improved technology in Western Ethiopia: A stochastic efficiency decomposition approach. Paper presented at the National Workshop on Technological Progress in Ethiopian Agriculture. Addis Ababa, November 29–30, 2001. (with R.M. Hassan and Mulat Demeke).

5. Measuring the impact of Ethiopia's New Extension Program on the productive efficiency of farmers. Paper presented at the 25th Annual Conference of the International Association of Agricultural Economists. Durban, South Africa, August 16-22, 2003. (with R.M. Hassan).
6. Experiences with the implementation of the Supervised Enterprise Projects at Alemaya University of Agriculture. Paper presented at the Strategic Planning Workshop on Supervised Enterprise Projects component of the SAFE initiative at selected African universities, Sokoine University of Agriculture, Tanzania, 18-19 December 1998. (with J. Mutimba).
7. Supervised Extension Projects: Reflections on the 1998 learning opportunities for improving extension skills. Paper presented at the Workshop on Supervised Extension Projects, Alemaya University of Agriculture, December 28-30, 1998. (with J. Mutimba).
8. A comparison of distance function and production frontiers in multi-output agriculture with technical interdependence: An application to intercropping systems of annual and perennial crops production in southern Ethiopia Paper presented at the 42nd Annual Conference of the Agricultural Economics Association of South Africa. (with V.M. Manyong and J. Gockowski).
9. Conceptualizing Impact Assessment and Building Impact Culture at IITA. IITA WPW Meeting, 18-24 Nov. 2004, Ibadan, Nigeria. (with V.M. Manyong and J. Gockowski).
10. Adoption and impact of improved cowpea varieties in northern Nigeria. CGIAR Seminar presentation, 28 April 2005, IITA, Ibadan, Nigeria (with V.M. Manyong, A. Tipilda, and B.B. Singh).
11. Unexploited yield and profitability potentials of improved varietal technologies: the case of hybrid maize in western Ethiopia. Paper presented at the Fifth West and Central Africa Regional Maize Workshop, 3-6 May 2005, IITA-Cotonou, Benin.
12. The effects of education on agricultural productivity under traditional and improved technology: the case of cowpea production in northern Nigeria. Paper presented at the National Workshop on the Development of the Northern States of Nigeria, 28-31 June 2005, IDR/ABU – Zaria (with V.M. Manyong).
13. Improved cowpea package: intra-household impact. Poster presented at the IITA Board of Trustees Meeting on May 18, 2005. IITA, Ibadan, Nigeria (with A. Tipilda, V.M. Manyong, B.B. Singh).
14. Intra-household impact of improved cowpea varieties in the Northern Savannas of Nigeria. Paper presented at the Impact Assessment Workshop on Methodologies for Measuring Impact on Women, 19-21 October 2005, Mexico (with A. Tipilda, V.M. Manyong, B.B. Singh).
15. Adoption and impact of improved cowpea varieties in northern Nigeria. CGIAR Seminar Series, IITA, Ibadan, April 2006. (with V.M. Manyong, A. Tipilda, B.B. Singh)
16. Agricultural research: How well has the African farmer benefited? (with V.M. Manyong). The 11th Annual Symposium of IARSAF, January 26, 2006, IITA, Ibadan, Nigeria.
17. Setting strategic agricultural research priorities based on potential impacts on poverty reduction: the case of Nigeria. The 26th Conference of the International Association of Agricultural Economists, Gold Coast, Australia, August 12-18, 2006. (with V.M. Manyong, E. F. Tollens, S. Abele)
18. The efficiency-equity tradeoffs in agricultural research priority setting: the potential impacts of agricultural research on economic surplus and poverty reduction in Nigeria. The 26th Conference of the International Association of Agricultural economists, Gold Coast, Australia, August 12-18, 2006. (with V.M. Manyong, E.F. Tollens, S. Abele)

19. The economic impact of maize research in West and Central Africa. Annual Maize Workshop of the Maize Association of Nigeria, Bauchi, Nigeria, 13–17 April, 2008. (with A. Menkir, S.O. Ajala, B. Badu-Apraku, and A.S. Olanrewaju)
20. Overview of Impact Assessment at IITA. R4D Week, 17–21 April 2008, Ibadan, Nigeria. (with V.M. Manyong and J. Rusike)
21. Productivity growth and the effects of R&D in African agriculture. The 27th Conference of the International Association of Agricultural economists, Beijing, China, August 16–22, 2009.
22. The Impact of Agricultural Research in sub-Saharan Africa. R4D Planning Week, Ibadan, Nigeria, November 2009.
23. Total factor productivity and the effects of R&D in African agriculture. Invited paper presented at the Global Conference on Agricultural Productivity, USDA-ERS, Washington DC, 11-12 May 2010.
24. World cowpea facts, trends, and outlook. Paper presented at the 5th World Cowpea Conference held in Saly, Senegal, 27 October–01 November 2010.

Resource mobilization

Funded proposals:

1. Yam Improvement for Incomes and Security in West Africa (YIIFSWA). This is a five-year BMGF-funded project (\$12 million, with \$800,000 for socio-economics).
2. Development of a sustainable soybean seed system to enhance availability and accessibility of high-quality seed of improved varieties for farmers in Malawi. Budget of US\$560,000 from USAID/Malawi through DAI/INVC.
3. Making high quality soybean seeds accessible to smallholder farmers in Malawi. A proposal with an approved budget of over US\$3 million funded by USAID.
4. Sustainable Intensification of maize-legume Systems in Eastern Province of Zambia “Africa RISING (SIMLEZA-Africa RISING). A grant of \$350,000 approved for IITA and CIMMYT from Africa RISING/ESA to support SIMLEZA activities in eastern Zambia, which are aligned with and contribute to Africa RISING in ESA region.
5. Sustainable Intensification of Maize-Legume Systems for the Eastern Province of Zambia (SIMLEZA). A five-year project funded by USAID (\$6 million, with \$560,000 for socioeconomics).
6. Assessing the impacts of improved cassava varieties on poverty reduction in Nigeria. Budget of \$200,000 funded by the Standing Panel on Impact Assessment (SPIA) of the CGIAR.
7. Ex-ante evaluation of promising technologies for IITA mandate crops in SSA. Activity proposal with an approved budget of \$155,000 funded by CRP-PIM.
8. Enhancing grain legumes productivity, production, and the incomes of poor farmers in drought-prone areas of sub-Saharan Africa and South Asia (Phase 2 of Tropical Legumes II). This is a three-year multi-center BMGF-funded project (US\$20 million, with \$450,000 for IITA socioeconomics).
9. Tropical Legumes III - Improving Livelihoods for Smallholder Farmers: Enhanced Grain Legume Productivity and Production in Sub-Saharan Africa and South Asia. Budget of US\$5,217,623 funded by BMGF through ICRISAT, of which about \$250,000 is for socioeconomics with provisions for a postdoctoral fellow.
10. Junior Professional Officer (Agricultural Economist) for IITA-SIMLEZA project to undertake socioeconomic analysis and impact assessment of maize-legume system

intensification in Southern Africa. This is a three-year project funded by the Government of the Netherlands (over \$500,000).

11. Value chain analysis of grain legumes in eastern and southern Africa: Building partnerships for impact through research on sustainable intensification of farming systems (US\$169,447—jump-start proposal approved under the Africa-RISING project funded by USAID).
12. Diffusion and Impact of Improved Crop Varieties in Africa (DIVA). This is multi-CG center 2.5-year project to BMGF via SPIA (\$377,000 for IITA).
13. Making Agricultural Innovations Work for Smallholder Farmers Affected by HIV and AIDS in Southern Africa (MIRACLE). A five-year project funded by Sida (\$5 million, with \$400,000 for socioeconomics).
14. Led the development of major socioeconomics components of several CGIAR Research Programs (CRPs): (1) CRP3 on Roots, Tubers, Bananas; (2) CRP2 on Policies, Institutions, and Markets to Strengthen Assets and Agricultural Incomes for the Poor; (3) CRP4 on MAIZE - Global Alliance for Improving Food Security and the Livelihoods of the Resource-poor in the Developing World; and (4) CRP3 on Grain Legumes: Increased productivity for global food and nutritional security and sustainable agriculture.
15. Public-private partnership for innovation in soybean and cowpea value chains in Mozambique. This is a 4-year proposal funded by USAID (US\$1,049,952).
16. Feed the Future Mozambique Improved Seed for New Agriculture (SEMEAR). Budget of over \$10 million, of which some \$7 million is for IITA and over US\$500,000 for socioeconomics.
17. Integrating Nutrition in Value Chains—Bridging Activity. This is a 2-year (2016-2018) project funded by USAID-Malawi with a budget of with a budget of US\$5.5 million.
18. Root and Tuber Crops for Agricultural Transformation in Malawi (RTC-ACTION Malawi). This is a 5-year project funded by Irish Aid and IITA's cassava component is implemented over a period of 4 years with a budget of \$2.5 million.
19. CGIAR Research Program Proposal on Grain Legumes and Dryland Cereals (GLDC). This is a multi-centre 5-year program (2018-2022) with core funding of US\$8 million (estimated budget for IITA is US\$0.85 million) and I led the preparation of the socioeconomics flagship program proposal.
20. CGIAR contribution to KULIMA Promoting Farming in Malawi: Improving the access to and use of agriculture research innovations by Malawian farmers. This is a multi-centre 1.5 year (2018-2019) project funded by the European Union. IITA's budget is US\$311,000.

Unfunded Proposals/Concept Notes:

1. Assessing adoption and poverty impacts of improved cassava varieties in sub-Saharan Africa (Requested). Activity proposal with a budget of \$1.4 million submitted to CRP-PIM, but was not approved.
2. Assessing adoption and poverty impacts of improved maize varieties in West Africa. Activity proposal with a budget of \$1.4 million submitted to CRP-PIM, but was not approved.
3. Concept Note (with David Chikoye) on Unlocking the Potential of Conservation Farming for Restoring Productivity of Degraded Lands in Maize Based Systems in Southern Africa. A budget of \$1.5 million requested from AGRA for socioeconomics, but was not approved for full proposal development.

4. Concept Note (with David Chikoye and Steve Boahen) on making high quality soybean seeds accessible to small-holder farmers in Malawi, Mozambique and Zambia. A budget of \$578,000 requested from ACTESA, but was not approved for full proposal development.
5. Concept Note (with David Lee of Cornell University and Benard Vanlauwe, IITA) on adoption and impacts of integrated soil fertility management in Sub-Saharan Africa. Submitted to National Science Foundation (BREAD), but was not approved for full proposal development.
6. Improving the efficiency of soybean value chains and unlocking market opportunities for smallholder soybean producers in Africa. A budget of US\$4,207,295 requested from USAID through University of Illinois, but was not funded.
7. The structure and functioning of soybean markets and value chains in southern Africa. A budget of US\$596,900 requested from AusAID, but was not funded.
8. Promotion of Cassava Commercialization for Economic Growth and Improved Rural Livelihood in Malawi. A budget of €1,000,000 requested from European Union, but was not funded.

Computer Programs and Applications

1. Proficient with GAMS, STATA, LIMDEP, and Spreadsheets
2. Familiar with SAS and SHAZAM

Membership in Professional Associations

1. International Association of Agricultural Economists (IAAE)
2. African Association of Agricultural Economists (AAAE)

Awards/Honors and Fellowships

1. Great Distinction in Ethiopian School Leaving Certificate Examination, 1988.
2. Best Faculty Student, Faculty of Pre-Agriculture, Alemaya University of Agriculture, 1990.
3. Distinction in Agricultural Economics (BSc), Alemaya University of Agriculture, 1992.
4. Outstanding Teaching Performance, Alemaya University of Agriculture, 1996–1999.
5. German Academic Exchange Service (DAAD) Research Fellowship, University of Goettingen, Germany, 2003.
6. Second Best Paper award, African Association of Agricultural Economists (AAAE), 2007.

Professional Services

- Editor-in-Chief, Annual Yearbook of Alemaya University of Agriculture, 1997-1999
- Associate Editor, African Journal of Agricultural and Resource Economics, 2007-
- Guest Editor, African Journal of Agricultural and Resource Economics: special issue on productivity & efficiency analysis in African agriculture
- Reviewer for articles submitted to: *Environment and Development Economics*; *Ecological Economics*; *Journal of African Economies*; *Agricultural Systems*; *Agricultural Economics*; *Journal of Developing Areas*; *Agricultural Economics Review*; *African Journal of Agricultural & Resource Economics*

Languages

Amharic (Native), English (fluent), French (Elementary)

Referees

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