



**Dr. Naalamle Amissah, Ph.D**

West Africa Regional Hub Manager

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**Brief Profile**

Dr. Naalamle Amissah is a Senior Lecturer at the University of Ghana. She holds a BSc degree in Agriculture from the University of Science and Technology, Kumasi, a Master of Science degree and a Ph.D. in Horticulture from Cornell University, USA. Her research interests are in the selection, evaluation, and propagation of economically important plants that are either difficult to propagate or at risk of extinction (several trees, medicinal plant, and vegetable species fall within this category), as well as the development of improved technologies to ensure their successful establishment. Her research also involves identifying neglected and underutilized crop species with the potential to address weather variability and food security challenges in Ghana. Dr. Amissah is the Head of the Department of Crop Science and Team Lead for Plant Tissue Culture at the West Africa Centre for Crop Improvement (WACCI) at the University of Ghana.

**List of Research Projects**

Project Title: Strengthening the Horticulture Sector in Niger

Duration: April, 2024 – October, 2025

Position/tasks: Co-Principal Investigator

Funded by: UC Davis Feed the Future Innovation Lab for Horticulture/ USAID

Missions, Senegal

Project Value: USD 1,000,000

2. Project Title: Strengthening the Horticulture Sector in Guinea-Bissau

Duration: October, 2023 – October, 2026

Position/tasks: Principal Investigator

Funded by: UC Davis Feed the Future Innovation Lab for Horticulture/ USAID

Missions, Senegal

Project Value: USD 1,000,000

3. Project Title: Promotion of Food and Nutrition Security in the West Africa Sub-Region through Indigenous, Neglected and Underutilized Fruits and Vegetables  
Duration: 01/03/2023 – 31/07/2026  
Position/tasks: Co-Principal Investigator. Responsible for the successful execution of the project.  
Funded by: UC Davis Feed the Future Innovation Lab for Horticulture  
Project Value: USD 444,655
- 4 2022 USD 71,626.00 Feed the Future Horticulture Innovation Lab, UC Davis. West Africa Regional Horticulture Conference: Horticulture for Food, Nutrition and Livelihoods. (Conference Coordinator/Organizer).
- 5 2021 USD 29,660.00 Building A New Generation of Academics in Africa (BANGA-AFRICA) project. Production of *Cryptolepis sanguinolenta* as a cash crop for the treatment of Malaria and Lyme Disease (Principal Investigator) 2021.
- 6 2019 USD 50,000.00 WACCI Grant. Developing Frafra Potato (*Solenostemon rotundifolius*) into a Major Food Crop for West and Central Africa (Principal Investigator).
- 7 2019 BP 200,000.00 UKRI GCRF Grant Farmers perspectives on challenges in the food system: a collaborative research partnership (Co-Investigator) (2019-2021) [amount received BP 16,050.00]
- 8 2016 USD 32,262.00 Peasant Farmers Association of Ghana's Project "Agroecology/Sustainable Farming and Food Systems, and Political Participation of Small-Scale Farmers in Ghana" (Principal Investigator) [funded by the Open Society Foundation (OSF) Ref. G03291
- 9 2015 BP 7,500.00 Cambridge–Africa Alborada Research Fund "Alternative methods of cultivation of *Cryptolepis sanguinolenta* to maximize active compound production and prevent species extinction in the wild" (African Partner)
- 10 2015 USD 794,000.00 Open Society Foundation (OSF) Climate Change and Food Systems Research "Co-producing Knowledge" (Co-Investigator) Coordinator
- 11 2011 EUROS 123,000.00 VolkswagenStiftung "Propagation, cultural practices, genetic and biochemical diversity of two medicinal plant species, *Croton membranaceus* and *Cryptolepis sanguinolenta*." (Principal Investigator); (2011-2014).

## List of Publications.

1. Amissah, J. N., Paolillo, D. J., & Bassuk, N. (2008). Adventitious root formation in stem cuttings of *Quercus bicolor* and *Quercus macrocarpa* and its relationship to stem anatomy. *Journal of the American Society for Horticultural Science*, 133(4), 479-486. <https://doi.org/10.21273/JASHS.133.4.479>
2. Amissah, J. N., Opoku-Agyemang, F., Asem, F. E., Osei-Safo, D., & Addae-Mensah, I. (2024). Increasing the planting density of *Cryptolepis sanguinolenta* (Lindl.) Schlt increased root biomass and cryptolepine yield. *Heliyon*, 10(10). <https://doi.org/10.1016/j.heliyon.2024.e30932>
3. Amissah, J. N., Alorvor, F. E., Okorley, B. A., Asare, C. M., Osei-Safo, D., Appiah-Opong, R., & Addae-Mensah, I. (2022). Mineral Fertilization Influences the Growth, Cryptolepine Yield, and Bioefficacy of *Cryptolepis sanguinolenta* (Lindl.) Schlt. *Plants*, 11(1), 122. <https://doi.org/10.3390/plants11010122>
4. Amissah, J. N., & Bassuk, N. (2009). Cutting back stock plants promotes adventitious rooting of stems of *Quercus bicolor* and *Quercus macrocarpa*. *Journal of Environmental Horticulture*, 27(3), 159-165. <https://doi.org/10.24266/0738-2898-27.3.159>
5. Amissah, J. N., Hadziabdic, D., Boggess, S. L., & Trigiano, R. N. (2022). Genetic diversity and population structure of the antimalarial plant *Cryptolepis sanguinolenta* in Ghana. *Frontiers in Conservation Science*, 3, 1020981. <https://doi.org/10.3389/fcosc.2022.1020981>
6. Amissah, N. J., Wadl, P. A., Hadziabdic, D., Boggess, S. L., & Trigiano, R. N. (2016). Characterization of thirteen microsatellite loci from the Ghanaian antimalarial plant *Cryptolepis sanguinolenta*. *Journal of Medicinal Plants Research*, 10(14), 183-187. <https://doi.org/10.5897/JMPR2016.6047>
7. Amissah, N., Akakpo, B., Yeboah, J., & Blay, E. (2013). Asexual propagation of sheanut tree (*Vitellaria paradoxa* CF Gaertn.) using a container layering technique. *American Journal of Plant Sciences*, 4(09), 1758. <http://dx.doi.org/10.4236/ajps.2013.49216>
8. Amissah, J. N., Osei-Safo, D., Asare, C. M., Missah-Assihene, B., Danquah, E. Y., & Addae-Mensah, I. (2016). Influence of age and staking on the growth and cryptolepine concentration in cultivated roots of *Cryptolepis sanguinolenta* (Lindl.) Schlt. *Journal of Medicinal Plants Research*, 10(9), 113-121. <http://www.academicjournals.org/JMPR>
9. Munialo, S., Siddique, K. H., Barker, N. P., Onyango, C. M., Amissah, J. N., Wamalwa, L. N., ... & Sibanda, L. M. (2024). Reorienting research investments toward under-researched crops for sustainable food systems. *Food and Energy Security*, 13(2), e538. <https://doi.org/10.1002/fes3.538>
10. Asare-Addo, D. C., Amissah, J. N., Ofori, P. A., Owusu-Nketia, S., Opoku-Agyemang, F., & Nkansah, G. O. (2022). Evaluation of agronomic performances and fruit quality of improved tomato (*Solanum lycopersicum* L.) lines under greenhouse conditions. *Journal of Agriculture and Food Research*, 9, 100360. <https://doi.org/10.1016/j.jafr.2022.100360>
11. Tutu, C. O., Amissah, J. G. N., Amissah, J. N., Akonor, P. T., Budu, A. S., & Saalia, F. K. (2024). Application of Frafra potato (*Solenostemon rotundifolius*) flour in the

development of gluten-free bread. *Heliyon*, 10(2).

<https://doi.org/10.1016/j.heliyon.2024.e24521>

12. Tutu, C. O., Amisah, J. G. N., Amisah, J. N., Akonor, P. T., Budu, A. S., & Saalia, F. K. (2024). Physical, chemical, and rheological properties of flour from accessions of Frafra potato (*Solenostemon rotundifolius*). *Journal of Agriculture and Food Research*, 15, 100974. <https://doi.org/10.1016/j.jafr.2024.100974>
13. Opoku-Agyemang, F., Amisah, J. N., Owusu-Nketia, S., Ofori, P. A., & Notaguchi, M. (2024). Optimization of cassava (*Manihot esculenta* Crantz) grafting technique to enhance its adoption in cassava cultivation. *MethodsX*, 13, 102904. <https://doi.org/10.1016/j.mex.2024.102904>
14. Houegban, J., Aglinglo, L. A., N'Danikou, S., Tchokponhoué, D. A., Amisah, J. N., Ankamah-Yeboah, T., & Achigan-Dako, E. (2024). Traditional African vegetables' seed access and management practices: case of *Vernonia amygdalina* (Delile) in southern Benin. *Frontiers in Sustainable Food Systems*, 8, 1276736. <https://doi.org/10.3389/fsufs.2024.1276736>
15. Akakpo, D. B., Amisah, N., Yeboah, J., & Blay, E. (2014). Effect of indole 3-butyric acid and media type on adventitious root formation in sheanut tree (*Vitellaria paradoxa* CF Gaertn.) stem cuttings. *American Journal of Plant Sciences*, 5(3), 313-318. <http://dx.doi.org/10.4236/ajps.2014.53043>



## **Freda E. Asem, PhD**

Position: West Africa Regional Hub Coordinator

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### **Brief Profile**

Dr. Freda E. Asem holds a PhD in Development Studies from the University of Ghana, an MSc. in Agricultural and Resource Economics from the University of Alberta, Edmonton, Canada, and a BSc. in Agricultural Economics from the University of Ghana, Legon. Freda is a Senior Lecturer at the University of Ghana. She is an agricultural economist by training and a researcher with over 20 years of experience in the agricultural sector. Her research focuses on agricultural marketing, agribusiness, agrifood systems, and agricultural value chain analyses and their implications for improving the livelihoods of all value chain actors, most importantly, smallholder farmers. Her overall goal is to contribute significantly to improving African food systems to enable smallholder farmers to benefit greatly from their businesses. She loves to mentor her students. Freda also has vast experience in project and fund management.

### **List of Research Projects**

Project Title: Strengthening the Horticulture Sector in Niger

Duration: April, 2024 – October, 2025

Position/tasks: Co-Principal Investigator

Funded by: UC Davis Feed the Future Innovation Lab for Horticulture/ USAID

Missions, Senegal

Project Value: USD 1,000,000

2. Project Title: Strengthening the Horticulture Sector in Guinea-Bissau

Duration: October, 2023 – October, 2026

Position/tasks: Co-Principal Investigator

Funded by: UC Davis Feed the Future Innovation Lab for Horticulture/ USAID

Missions, Senegal  
Project Value: USD 1,000,000

3. Project Title: Promotion of Food and Nutrition Security in the West Africa Sub-Region through Indigenous, Neglected and Underutilized Fruits and Vegetables  
Duration: 01/03/2023 – 31/07/2026  
Position/tasks: Principal Investigator. Responsible for the successful execution of the project.  
Funded by: UC Davis Feed the Future Innovation Lab for Horticulture  
Project Value: USD 444,655
4. Project Title: Controlling Food Loss and Food Waste through Resilient Sustainable Protection, Storage and Preservation Systems.  
Duration: June – September, 2023  
Position/tasks: Consultant. I was responsible entire study.  
Funded by: Institute of Statistical, Social and Economic Research (ISSER) under the Data Repository and Advocacy for Policy (DARAP) Project  
Project Value: USD 5,000
5. Project Title: West Africa Regional Innovation Hub for Horticulture  
Duration: December 2022 – December 2025  
Position/tasks: Regional Coordinator. I support the Regional Manager and principal investigators in the region with drafting necessary USAID reports (semi-annual and annual reports) and information deliverables such as extension bulletins and training manuals and the dissemination of these deliverables to intermediary organizations and end-user stakeholders.  
Funded by: UC Davis Feed the Future Innovation Lab for Horticulture  
Project Value: USD 252,000
6. Project Title: Gendered Market Scan to Identify Opportunities and Barriers for Women's Economic Empowerment  
Duration: February – August, 2022  
Position/tasks: Lead Consultant. I was responsible for the general supervision and monitoring of the entire study.  
Funded by: Plan International Ghana/Global Affairs Canada  
Project Description/Objectives: The 2030 Agenda for Sustainable Development has made gender equality a priority in promoting sustained, inclusive growth and decent work for all. Although Ghana is politically stable and has made significant progress in poverty reduction and economic growth in recent years, yet women have not benefited equally from its economic gains. To ensure realization of women's rights to economic empowerment, well-being and inclusive economic growth, gendered disparities in the economic sector must be tackled to address the broad-ranging social barriers to gender equality, as well as the practical constraints to women's full participation in transformative growth and development. To this end, Plan International Ghana in partnership with Global

Affairs Canada (GAC) is leading the implementation of a gender transformative Women's Innovation for Sustainable Enterprises (WISE) project in Northern, Bono, Bono East and Ahafo regions. The project responds to the priorities of gender equality and women's economic empowerment as outlined by the project donor, Global Affairs Canada, in its Feminist International Assistance Policy (FIAP). The project seeks to address these challenges by focusing on gender equality and the economic empowerment of women (19 to 55 years) to support growth that works for everyone. In addition, the project will encourage the full participation of women as economic actors by reducing gender-specific barriers and increasing women's access to economic opportunities and control over productive resources by using innovative approaches to increase women's economic empowerment and rights. The overall goal of the project is to contribute to increased realization of rights to economic empowerment, well-being and inclusive economic growth for targeted women in five districts of Northern, Bono, Bono East and Ahafo regions in Ghana by March, 2024 and this is expected to be achieved through the following expected results:

- o Improved women's agency to exercise decisions regarding their participation in economic growth.
- o Increased productivity, profitability and innovation of women-owned businesses

Project Value: GHC 99,814.84

7. Facilitated Horticulture R&D Investment Workshop spearheaded by the Feed the Future Innovation Lab for Horticulture in collaboration with the World Vegetable Center, the One CGIAR Initiative on Fruit and Vegetables for Sustainable Healthy Diets (FRESH), and other university partners. July 23, 2024. Accra, Ghana.
8. Facilitated a training on 'Marketing and Export' for Greenhouse Production Course organized by the Institute of Applied Science and Technology (IAST), University of Ghana, April 29, 2024.
9. Co-organized a West Africa Regional Horticulture Conference by the School of Agriculture of the University of Ghana in partnership with the Feed the Future Innovation Lab for Horticulture at UC Davis, May 31 – June 1, 2022.
10. Facilitated a training on 'Marketing Tomatoes and Tomato Products at Biotechnology and Nuclear Agriculture Research Institute (BNARI), June 8 – 9, 2022.
11. Facilitated a training on 'Marketing and Export' for Greenhouse Production Course organized by the Institute of Applied Science and Technology (IAST), University of Ghana, September 7, 2021.
12. Facilitated a training on 'Marketing Tomatoes and Tomato Products at Biotechnology and Nuclear Agriculture Research Institute (BNARI), June 10 – 11, 2021.
13. Facilitated a training on Managing Small Businesses for Women Yoghurt Processors at Livestock and Poultry Research Centre (LIPREC), University of Ghana, May 19, 2021.
14. Facilitated a training on 'Marketing Your Produce' for Greenhouse Production Course organized by the Institute of Applied Science and Technology (IAST), University of Ghana, May 7, 2021.

**15. Project Title:** Optimization and Deployment: Nutrient-Rich Biodegradable Matrix for Crop Protection.

**Duration:** January 2020 – December 2022

**Position/tasks:** Co-Investigator (Agricultural Economics - I am responsible for investigating the socio-economic aspect of the technology. I am responsible for the designing of the research instruments, training of enumerators and assistants, data collection, data analysis and report writing of the socioeconomic study.

**Funded by:** Bill & Melinda Gates Foundation

**Project Description/Objectives:** The project is a multidisciplinary, multinational project establishing field trials in three West- African countries (Benin, Ghana and Togo) to evaluate and validate an innovative and cost effective ‘wrap & plant’ technology for yam (*Dioscorea spp.*) for protection against key plant-parasitic nematodes using abamectin. The project, initiated by North Carolina State University, is funded by a Grand Challenges Explorations Phase III proposal to Bill & Melinda Gates Foundation entitled ‘Optimization and Deployment: Nutrient-Rich Biodegradable Matrix for Crop Protection’. In each of the three participating country, farmer cooperator fields have been identified to establish independent trials in the three major yam producing agroecological zones to build up on the promising results from a previous study.

The general objective of the project is to improve upon yam production both quantitatively and qualitatively through use of banana paper pre-treated with ultralow concentrations of Abamectin applied at planting following seed “wrap and plant” method.

**16. Project Title:** SUSTAINABLE PRODUCTION AND PROCESSING OF PINEAPPLES BY WOMEN SMALLHOLDER FARMERS IN AKWAPIM SOUTH

**Duration:** January 2018 – June 2019

**Position/tasks:** Principal Investigator –I provided leadership for all aspects of the project including conceptualisation, study design, design of research instruments, training of women farmers and assistants, data collection, data analysis and report writing.

**Funded by:** Australian High Commission, Ghana through DFAT

**Project Description/Objectives:** This is a project sponsored by the Australian Government, Department of Foreign Affairs and Trade (DFAT) through the Australian High Commission, Ghana. The project is specifically directed to provide support to the Apantam-Attakrom Amanfro Women Pineapple Farmers Group through the production and processing of the Smooth Cayenne pineapple variety.

**17. Project Title:** BASELINE STUDY OF MARKET ORIENTED AGRICULTURE PROGRAMME (MOAP) IN NORTH-WEST GHANA

**Duration:** February 2018 – June 2018

**Position/Tasks:** National Expert - Project management, supervision of fieldwork, data quality assurance and report writing.

**Funded by:** GIZ through GFA Consulting Group

Project Description/Objectives: A total of 400 interviews were conducted with randomly selected households that cultivate at least one of the Programme's target crop commercially across the 17 districts in the North West of Ghana (14 MOAP target districts and 3 control districts). Proportionate random sampling techniques were used to select the farmer households and to divide them into control and treatment villages. An additional 26 focus group discussions were held to verify and further elaborate the results and information collected through the structured interviews. Secondary research informed the sampling, questionnaire and guiding question of the focus group discussion.

**18. Project Title: AUSTRALIA AWARDS AGRIBUSINESS SHORTCOURSE IN GHANA**

Duration: 2017 – 2019

Position/Tasks: Co-Facilitator - Planning and coordination of field visits, putting together the various value chains actors for hands-on practicals and coaching of awardees.

Funded by: Australia Awards Africa

Project Description/Objectives: The Australia Awards Agribusiness Short Course is a yearly program sponsored by the Australian Government to build the capacities of agribusiness professionals in value chain analysis. The African component of the course is held in Ghana every year.

**19. Project Title: AN EVALUATION OF PILOT LAND REGISTRATION UNDER THE MiDA PROGRAMME, 2014/2015**

Duration: October 2014 – May 2016

Position: Project Manager

Activities: Project management, supervision of fieldwork, report writing.

Funded by: The Millennium Challenge Account

Project Description/Objectives: Following two previous rounds of surveys, ISSER conducted a third round of survey to support the independent impact evaluation of the Millennium Development Authority (MiDA) pilot land title registration exercise in the Awutu-Senya district of the Central Region of Ghana. This MiDA initiative forms part of its agricultural transformation projects, piloting land titling in Ghana with the objective of eliminating production bottlenecks associated with access, use and security of tenure of land. Project Value: USD 248,000.00

**20. Project Title: AN EVALUATION OF THE IMPACTS OF A SOIL FERTILITY TRAINING PROGRAMME ON FARMER PRODUCTIVITY IN THE VOLTA REGION OF GHANA**

Duration: February – May 2016

Position: Project Manager

Activities: I coordinated and oversaw the revision of the questionnaire, recruitment, training, supervision of the enumerators and general project management.

Funded by: IFPRI

Project Description/Objectives: This evaluation is a study jointly undertaken by the International Food Policy Research Institute (IFPRI) and ISSER. The project under evaluation aims at promoting Africare's scale up of Integrated Soil Fertility Management practices (ISFM) in the Volta region of Ghana to address these issues and to ultimately improve the incomes of smallholder farmers. Africare's project specifically promotes the sustainable intensification of maize and rice cultivation using the provision of production inputs, information on ISFM practices, and marketing services for members of farmer-based organizations (FBOs) in selected districts of the Volta region. The baseline data collection covered a total of 1,333 households in 139 communities using CAPI. The project was funded by IFPRI.

Project Value: USD 114,505.14

21. Project Title: GREEN INNOVATION CENTRES FOR THE AGRICULTURE AND FOOD SECTOR (GIZ)

Duration: December 2015 – February 2016

Position: Project Manager

Activities: I coordinated and oversaw the recruitment, training and supervision of enumerators, report writing. I also planned and executed the project budget.

Funded by: GIZ

22. Project Description: The German Ministry for Economic Cooperation and Development (BMZ) has initiated the special initiative "One World, no Hunger" to improve the income and food and nutrition security of households in a number emerging and developing countries. Under this umbrella, the programme 'Innovation centers for the agriculture and food sector' (GIAE) is implemented in 13 countries with the aim to raise income and employment and improve food security. The programme targets small-holder farmers and small and medium-sized enterprises by improving the innovation transfer along various agricultural value chains. The programme is implemented in 13 countries, namely Benin, Burkina Faso, Cameroon, Ethiopia, Ghana, India, Kenya, Malawi, Mali, Nigeria, Togo, Tunisia and Zambia. The study aims to compile baseline data for the concerned value chains in selected intervention areas in order to ensure a cross-country monitoring and evaluation system for this global programme. The study captured data from (a) household survey and (b) focus group discussions (FGDs). The study targeted 500 households and 10 FGDs.

Project Value: USD 47,000.00

23. Project Title: IMPACT EVALUATION OF THE LEAP 1000 CASH TRANSFER PROGRAM

Duration: June 2016 – November 2017

Position: Project Manager

Activities: I was coordinating and overseeing the recruitment, training and supervision of enumerators, report writing. I planned and executed the project, including the management of the finances.

Funded by: USAID, UNICEF-Ghana

Project Description/Objectives: This is a collaborative research among MoGCSP, UNICEF-Ghana and USAID that used the LEAP implementation structure to target a specific sub-group of extremely poor households that were missed in the LEAP approach— poor and vulnerable households with pregnant woman and infants under 12 months of age were used to pilot an initiative that provided a demonstration of a potentially fruitful approach to reducing poverty and vulnerability and improving child health among households with infants in Ghana. The program targets the first one thousand days of children in extreme households.

Project Value: USD 232,000.00

24. Safeguard Focal Person: Partnership for Skills in Applied Sciences, Engineering and Technology (PASET)-Regional Scholarship and Innovation Fund (RSIF), Africa Host University project on Food Security and Agribusiness, Department of Agricultural Economics and Agribusiness, May 2019-December, 2024.

## List of Publications

1. Asem, F. E., Ayeduvor, S., Saalia, F. K., Steiner-Asiedu, M., Affrifah, N. S., Parry-Hanson Kunadu, A., & Essien, E. (2025). Nutrition-sensitive value-chain development in Ghana: evidence from the field. *Cogent Food & Agriculture*, *11*(1), 2477189. <https://doi.org/10.1080/23311932.2025.2477189>
2. Asem, F. E., Nyaku, S. T., Kolog, J. D., Blay Adjei, M. Y., Ankrah, D. A., & Opperman, C. H. (2024). Profitability of yam production under farmer practice, abamectin treatment and banana paper techniques in Ghana. *Cogent Food & Agriculture*, *10*(1), 2436129. <https://doi.org/10.1080/23311932.2024.2436129>
3. Kolog, J. D., Asem, F. E., & Mensah-Bonsu, A. (2023). The state of food security and its determinants in Ghana: an ordered probit analysis of the household hunger scale and household food insecurity access scale. *Scientific African*, *19*, e01579. <https://doi.org/10.1016/j.sciaf.2023.e01579>
4. Kolog, J. D., Asem, F. E., Mensah-Bonsu, A., & Atinga, R. A. (2024). Determinants of livelihood diversification in an integrated agricultural and non-agricultural livelihood system in Ghana. *Scientific African*, *26*, e02413. <https://doi.org/10.1016/j.sciaf.2024.e02413>

5. Yiran, G. A. B., Ablo, A. D., Asem, F. E., & Owusu, G. (2020). Urban sprawl in sub-Saharan Africa: A review of the literature in selected countries. *Ghana Journal of Geography*, *12*(1), 1-28. <https://doi.org/10.4314/gjg.v12i1.1>
6. Ablo, A. D., Asem, F. E., Yiran, G. A., & Owusu, G. (2020). Urban sprawl, land use change and the changing rural agrarian livelihood in peri-urban Accra, Ghana. *Rural-urban linkages and sustainable development: Case studies from Africa*, *6*, 77.
7. Afriyie, E., Zurek, M., Asem, F. E., Okpattah, B., Ahiakpa, J. K., & Zhu, Y. G. (2023). Consumer food storage practices and methods at the household-level: a community study in Ghana. *Frontiers in Sustainable Food Systems*, *7*, 1194321. <https://doi.org/10.3389/fsufs.2023.1194321>
8. Yiran, G. A. B., Ablo, A. D., & Asem, F. E. (2020). Urbanisation and domestic energy trends: Analysis of household energy consumption patterns in relation to land-use change in peri-urban Accra, Ghana. *Land Use Policy*, *99*, 105047. <https://doi.org/10.1016/j.landusepol.2020.105047>
9. Afriyie, E., Gatzweiler, F., Zurek, M., Asem, F. E., Ahiakpa, J. K., Okpattah, B., ... & Zhu, Y. G. (2022). Determinants of household-level food storage practices and outcomes on food safety and security in Accra, Ghana. *Foods*, *11*(20), 3266. <https://doi.org/10.3390/foods11203266>
10. Amissah, J. N., Opoku-Agyemang, F., Asem, F. E., Osei-Safo, D., & Addae-Mensah, I. (2024). Increasing the planting density of *Cryptolepis sanguinolenta* (Lindl.) Schl increased root biomass and cryptolepine yield. *Heliyon*, *10*(10). <https://doi.org/10.1016/j.heliyon.2024.e30932>
11. Akolgo, J. A., Osei-Asare, Y. B., Sarpong, D. B., Asem, F. E., & Quaye, W. (2025). Production risk and technical efficiency of dry-season vegetable farmers in the Upper East Region of Ghana. *PloS one*, *20*(2), e0309375. <https://doi.org/10.1371/journal.pone.0309375>
12. Onumah, E. E., Asem, F. E., & Dogbey, M. (2024). Gendered perception and factors influencing the choice of innovation in the fisheries sector: A case of southern Ghana. *Ocean & Coastal Management*, *252*, 107103. <https://doi.org/10.1016/j.ocecoaman.2024.107103>
13. Akolgo, J. A., Osei-Asare, Y. B., Sarpong, D. B., Asem, F. E., & Quaye, W. (2024). Examining the nexus between dry season vegetable production and household food security in the Upper East Region of Ghana. *International Journal of Food and Agricultural Economics (IJFAEC)*, *12*(1), 75-95. <http://dx.doi.org/10.22004/ag.econ.341526>
14. Chakuri, D., Asem, F. E., & Ebo Onumah, E. (2022). Bayesian technical efficiency analysis of groundnut production in Ghana. *Cogent Economics & Finance*, *10*(1), 2074627. <https://doi.org/10.1080/23322039.2022.2074627>

15. Yiran, G. A., Ablo, A. D., & Asem, F. E. (2023). Is mango farming sustainable? An integrated analysis of remote sensing techniques and smallholder farmers' perception in mango farming communities in Ghana. *Ghana Social Science Journal*, 20(1), 71-96.

### **Working Papers**

1. Osei, R. D., F. E. Asem and G. Domfe. (2013). "The Political Economy Dimensions of Macroeconomic Management of Aid in Ghana" World Institute for Development Economics Research (WIDER) Working Paper No. 2013/106, October, 2013.
2. Asem, F. E., M. Busse, R. Osei, and M. Silberberger. (2013). "Private Sector Development and Governance in Ghana" International Growth Centre (IGC) Working Paper, April 2013.
3. Osei, D. R. Gertrude, A., Asem, F. E., Afutu-Kotey, R.L. (2009) 'Effects of Capitation Grant on Education Outcomes in Ghana'. Global Development Network Working Paper No. 20, September 2009

### **Technical Papers**

1. Osei, R. D., Asem, F., Okyere, C. Y, Appiah Kubi, J. W, Onumah, J., Ofori-Appiah, Y. & Wong, B. (2020). "Prioritising Agriculture Growth in Ghana". Ghana Priorities, Copenhagen Consensus Center, 2020. License: Creative Commons Attribution CC BY 4.0.
2. Onoja A. O. & Asem, F.E. (2018). "Analysis of Long-and Short-Run Impact of Foreign Aid on Food and Agricultural Sector Performance in West Africa: Evidence from Ghana and Nigeria". A technical publication in Global Development Network, African Economic Research Consortium and CREA(2018), Raising African voices on international aid and development in sub-Saharan Africa through local research. Access online at [https://drive.google.com/file/d/1DeO4-XCFQVmPU\\_VseFVb-GribA6ia3nw/view?usp=sharing](https://drive.google.com/file/d/1DeO4-XCFQVmPU_VseFVb-GribA6ia3nw/view?usp=sharing)



**Jude Dokbila Kolog, MPhil**

Position: West Africa Regional Hub Researcher

Email: [judekolog@gmail.com](mailto:judekolog@gmail.com)

**Brief Profile**

Jude Dokbila Kolog holds a Master of Philosophy degree in Agricultural Economics and a Bachelor of Arts degree in Economics and Philosophy from the University of Ghana, Legon. Jude is an agricultural economist with over five years of experience in the agricultural sector in both teaching and research capacities. His research focuses on food security, strengthening food systems and efficiency, livelihood diversification, and sustainability issues in the agriculture sector - and coming up with relevant recommendations to aid policy formulation in Ghana and beyond. His overarching objective is to use research to improve the lives of those living in rural areas - with emphasis on efficiency, livelihood improvement and poverty alleviation through community-led effective agricultural initiatives.

**List of Research Projects**

**List of Publications**

1. Kolog, J. D., Asem, F. E., & Mensah-Bonsu, A. (2023). The state of food security and its determinants in Ghana: an ordered probit analysis of the household hunger scale and household food insecurity access scale. *Scientific African*, *19*, e01579. <https://doi.org/10.1016/j.sciaf.2023.e01579>
2. Kolog, J. D., Asem, F. E., Mensah-Bonsu, A., & Atinga, R. A. (2024). Determinants of livelihood diversification in an integrated agricultural and non-agricultural livelihood system in Ghana. *Scientific African*, *26*, e02413. <https://doi.org/10.1016/j.sciaf.2024.e02413>
3. Asem, F. E., Nyaku, S. T., Kolog, J. D., Blay Adjei, M. Y., Ankrah, D. A., & Opperman, C. H. (2024). Profitability of yam production under farmer practice, abamectin treatment and banana paper techniques in Ghana. *Cogent Food & Agriculture*, *10*(1), 2436129. <https://doi.org/10.1080/23311932.2024.2436129>
4. Boafo, Y. A., Enu, K. B., Agyei, K. D., & Kolog, J. D. (2025). Citizen-led initiatives and hydro-meteorological risks reduction: Who is implementing nature-based solutions?. *Nature-Based Solutions*, 100234. <https://doi.org/10.1016/j.nbsj.2025.100234>



**Louis S. Hodey, M.Phil.**

Position: West Africa Regional Hub Researcher

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**Brief Profile**

Louis Hodey is a research economist and data scientist with over a decade of experience in applied development research across Africa. With a Master of Philosophy (M.Phil.) in Economics and a Bachelor of Arts (B.A) in Economics with Statistics from the University of Ghana, he specialises in surveys, data modelling, econometric analysis, and mixed methods research to inform evidence-based policymaking. Louis has led or supported more than 30 research projects with leading institutions such as IFPRI, IDS (University of Sussex), IWMI, AGRA, AERC, IDRC, GIZ, GSS, and ISSER. His technical expertise spans survey design and digital programming (Survey Solutions, Qualtrics, SurveyCTO, and KoboCollect), data management, and advanced analytics using Stata. He has applied these skills across multiple countries (including Ghana, Nigeria, Cote d’Ivoire, Liberia, Siera Leone, Togo, Ethiopia, Niger, Mali, Burkina Faso, Zimbabwe, and Colombia), using major international datasets (LSMS, DHS, WDI, IMF, FAO). His research output includes journal articles, technical reports, policy briefs, and research blogs covering trade, economic growth and development, climate and conflict, food security, and agricultural transformation. Louis brings a rare combination of macro- and micro-level insight and a strong track record of translating complex data into impactful policy solutions.

**List of Research Projects**

1. Data Analyst: PFJ 2.0 Impact Evaluation, The R4D Institute, May 2025 – Present
2. Research Consultant (CAPI Developer): JOBAGRI Research Project, CIRAD/ISSER, October 2024 – Present.
3. Research Consultant: Vegetable Irrigation for Climate Resilience Toolkit (VICT) Survey, International Water Management Institute (IWMI), Accra, September – November 2024.
4. Research Consultant: Participatory Research on Cocoa Roads, AGRITERRA, The Netherlands, September – November 2023.

5. Consultant Researcher: Better Assistance in Crises (BASIC) Research Project, Institute of Development Studies (IDS), Sussex, February 2022 – Present.
6. Research Consultant: Quantitative analyses of the impact of climate-induced insecurities of conflict in Nigeria using LSMS, conflict & climate data. The Africa Climate Security Crisis Observatory, International Centre for Tropical Agriculture (CIAT), October 2021 – October 2022.
7. Research Consultant: Database on French Language and Francophonie in Ghana, The French Embassy, Accra, August – October 2021.
8. Research Consultant (CAPI Design & Survey Implementation): Business Collaborations and Female Entrepreneurship, Northwestern University, September 2020 – November 2021.
9. Research / Technical Assistant (Quantitative Component): Ghana Study on COVID-19 and Food Systems, The International Development Research Centre (IDRC), August 2020 – August 2021.
10. Research Consultant: APRA Rapid Assessment of the Impact of the COVID-19 Crisis on Food Systems and Rural Livelihoods in Sub-Saharan Africa. Future Agricultures, Institute for Development Studies (IDS), University of Sussex, UK., 2020-2021
11. Research Consultant: Agricultural Commercialisation and its Outcomes in Africa: Insights from Living Standards Measurement Surveys (LSMS) in Ghana and Nigeria. Future Agricultures, Institute for Development Studies (IDS), University of Sussex, UK., 2019-2020.
12. Research Consultant (Survey Expert): Transforming Carbon Consumption Patterns of the New Middle Classes, German Development Institute / Deutsches Institut für Entwicklungspolitik (DIE), Bonn, 2019 & 2022.
13. Research Consultant (Technical Expert): APRA Work Stream (WS) 1 Endline Survey in Ghana, Future Agricultures, Institute for Development Studies (IDS), University of Sussex, UK., November – December 2019.
14. Research Consultant (National Expert): Impact Evaluation of Innovation Centres for the Agriculture and Food Sector (GIAE: Grüne Innovationszentren in der Agrar- und Ernährungswirtschaft) Midline Survey 2018.
15. Research Consultant (Data Analyst): Ghana Medium Term Economic Outlook – Electricity Market Study in Ghana, Togo, Benin, Burkina Faso and Cote d'Ivoire, Phase 1, Volta River Authority (VRA), 2019
16. Research Consultant [Technical Expert (CAPI: Survey Solutions)]: APRA Work Stream (WS) 1 Baseline Survey in Nigeria, Future Agricultures, Institute for Development Studies (IDS), University of Sussex, UK., 2018.
17. Research Consultant (Field Coordinator and Country Expert/Administrator): APRA Work Stream (WS) 2 Baseline Survey in the Western Region of Ghana. Future Agricultures, Institute for Development Studies (IDS), University of Sussex, UK., 2017.
18. Field Coordinator & Principal Research Assistant: Impact Evaluation of Integrated Soil Fertility Management (ISFM) Practices in the Volta Region, Baseline & Endline Surveys 2016-2017.

19. Field Coordinator & Principal Research Assistant: The Impact Evaluation of Reminders of Post-Harvest Aggregation Services and Timely Provision of Price Information on Smallholder Farmers Market Power and Incomes in Mali, 2015-2017.
20. Field Coordinator & Principal Research Assistant: Alliance for Green Revolution in Africa (AGRA) Baseline Surveys in Ghana, Burkina Faso, and Mali (2016-2017).
21. Field Coordinator & Principal Research Assistant: Impact Evaluation of the Livelihood Empowerment Against Poverty (LEAP) Programme in Ghana (2016).
22. Field Coordinator & Principal Research Assistant: Impact Evaluation of Innovation Centres for the Agriculture and Food Sector (GIAE: Grüne Innovationszentren in der Agrar- und Ernährungswirtschaft) Baseline Survey 2016
23. Field Coordinator & Principal Research Assistant: Impact Evaluation of Reinforcing Agro-Dealer Network on Access and Use of Agriculture Inputs by Farmers in Niger, 2015-2016.
24. Field Coordinator & Principal Research Assistant: Survey of Bread Basket Regions in Ghana and Burkina Faso, 2015.
25. Field Coordinator & Principal Research Assistant: An Impact Evaluation of Pilot Land Registration under the MiDA Programme, Endline 2014-2015.
26. Field Coordinator & Principal Research Assistant: An Impact Evaluation of Inoculant Usage on Crop Yields and Farmer Incomes in Ghana, Baseline 2015-2017.
27. Field Coordinator & Principal Research Assistant: An Evaluation of the Kwanyaku Water Plant and DENYS Pipes, 2014.
28. Field Assistant: Ghana Social Opportunities Project II (GSOP, Krachie East District), ISSER, August – September 2013.
29. Field Assistant: Urban Agriculture Project (Techiman), ISSER, November 2013.

## List of Publications

### *Journal Publications*

1. Gafa, D. W., **Hodey, L. S.**, & Senadza, B. (2024). Examining Poverty Dynamics in Ghana: Evidence from Longitudinal and Repeated Cross-Sectional Data. *Journal of African Economies*, 33(Supplement 1), i136–i157. <https://doi.org/10.1093/jae/ejae021>
2. Dzanku, F. M., Asante, K. T., & **Hodey, L. S.** (2023). Heterogeneous market participation channels and household welfare. *Oxford Development Studies*, 1-20. Available at <https://doi.org/10.1080/13600818.2023.2289196>
3. Senadza, B. & **Hodey, L.S.** (2022). Effect of Public Education Expenditure on Economic Growth in Sub-Saharan Africa. *Ghanaian Journal of Economics* 10 (1), 117-129
4. **Hodey L.S.**, Oduro, A.D., and Senadza, B., (2015). Export Diversification and Economic Growth in Sub-Saharan Africa, *Journal of African Development*, 17(2):67–81. Available at: [http://www.jadafea.com/wp-content/uploads/2015/12/JAD\\_vol17-2\\_ch4.pdf](http://www.jadafea.com/wp-content/uploads/2015/12/JAD_vol17-2_ch4.pdf)
5. Senadza, B. and **Hodey, L.S.** (2015) ‘Effect of public education expenditure on selected primary education outcomes in Sub-Saharan Africa’, *Int. J. Education Economics and Development*, Vol. 6, No. 4, pp.314–330. Available at: <https://www.inderscience.com/info/inarticle.php?artid=75794>

### ***Working Papers***

1. Merttens, F., **Hodey, L.** and Doyle, A. (2024) *Targeting in Protracted Crises: Nigeria Case Study*, BASIC Research Working Paper 26, Brighton: Institute of Development Studies, DOI: 10.19088/BASIC.2024.008.
2. Gafa, D.; **Hodey, L.** and Senadza B. (2024) Examining Poverty Dynamics in Ghana: Evidence from Longitudinal and Repeated Cross-Sectional Data. The Africa Economic Research Consortium (AERC) Working Paper GPIR-CC-002: Nairobi, Kenya. Available at <https://publication.aercafricalibrary.org/handle/123456789/3764>
3. Merttens, F.; **Hodey, L.** and Doyle, A. (2023) Targeting in Protracted Crises: Niger Case Study, BASIC Research Working Paper 21, Brighton: Institute of Development Studies, DOI: 10.19088/BASIC.2023.004. Available at <https://www.ids.ac.uk/publications/targeting-in-protracted-crises-niger-case-study/>
4. Dzanku, F.M. and **Hodey, L.S.** (2022) Livelihood Outcomes of Agricultural Commercialisation, Women's Empowerment and Rural Employment. APRA Working Paper 92. Brighton: Future Agricultures Consortium, DOI: 10.19088/APRA.2022.033. Available online at: Livelihood Outcomes of Agricultural Commercialisation, Women's Empowerment and Rural Employment (ids.ac.uk)
5. Dzanku, F. M., Asante, K. T., Quarmin, W., and **Hodey, L. S.** (2020). Smallholder Farmers' Choice of Oil Palm Commercialisation Model and Household Welfare in South-western Ghana. APRA Working Paper 43. Brighton: Future Agricultures Consortium. Available at <https://opendocs.ids.ac.uk/opendocs/handle/20.500.12413/15714>
6. **Hodey, L.S.** and Dzanku, F.M. (2021) Agricultural Commercialisation in South-Western Ghana, APRA Research Note 5, Brighton: Future Agricultures Consortium. Available at <https://opendocs.ids.ac.uk/opendocs/handle/20.500.12413/16911>

### ***Selected Conference Papers***

1. Targeting in Protracted Crises: Nigeria Case Study. Webinar Paper Presented at the Community Meeting on Outcomes of CVA Policy Dialogue, CALP Network.
2. Impact of Rhizobium Inoculant Knowledge Dissemination via Videos and Radio Listening Clubs on Smallholders' Inoculant Adoption, Crop Yields, and Incomes. A Research Paper Presented at the Africa Meeting of the Econometric Society 12-14 July 2018, Golden Tulip Hotel, Cotonou, Benin.
3. Does Government Investment in Education Buy Economic Growth in Sub-Saharan Africa? A Research Paper Presented at the 4th School of Social Sciences International Conference, Bank of Ghana Auditorium, Department of Economics, University of Ghana, Legon
4. Impact of Rhizobium Inoculant Knowledge Dissemination via Videos and Radio Listening Clubs on Smallholders' Inoculant Adoption, Crop Yields, and Incomes. A Research Paper Presented at the Centre of the Study of African Economies (CSAE) Conference, 18-20 March 2018, St Catherine's College, University of Oxford, UK.

5. Impact of Reminders of Post-Harvest Aggregation Services on Smallholder Farmers in Mali. A Research Paper Presented at the Evidence to Action Conference, 25-26 July 2017, Accra, Ghana. Available at <http://www.iced-eval.org/wp-content/uploads/2017/03/Tentative-E2A-Ghana-Programme-1.pdf>
6. An assessment of the Role of Public Education Expenditure in achieving the MDG on Education in Sub-Saharan Africa. A Research Paper Presented at the 2nd International Conference on Sustainable Development in Africa, 26-27 November 2015, Dakar, Senegal. Available at <https://www.merit.unu.edu/sdafrica/docs/parallel2.php>
7. The Role of Public Education Expenditure in Achieving the Millennium Development Goals on Education in Sub-Saharan Africa, A Research paper presented at the International Research Conference on Multidisciplinary Research and Transformation in Africa, University of Ghana, 18-20 June 2015. Available at <https://vivauniversity.files.wordpress.com/2015/06/college-of-humanitiesbook-of-abstracts-2.pdf>
8. Export Diversification and Economic Growth in Sub-Saharan Africa, A Research Paper Presented at the 2nd University of Ghana Business School Conference on Business and Development, 29-31 July 2014, Accra, Ghana. Conference schedule available at <https://vivauniversity.files.wordpress.com/2014/07/2014-conference-schedule.pdf>

### ***Technical Reports & Publications***

1. **Hodey, L.S.** and Dzanku, F.M. (2021) A Multi-Phase Assessment of the Effects of COVID-19 on Food Systems and Rural Livelihoods in Ghana. APRA COVID-19 Country Report, Brighton: Future Agricultures Consortium, DOI: 10.19088/APRA.2021.041 Available at: <https://opendocs.ids.ac.uk/opendocs/handle/20.500.12413/16990>
2. **Hodey, L.S.** and Dzanku, F.M. (2020) Impact of COVID-19 on Food Systems and Rural Livelihoods in Ghana. Round 2 – December 2020, APRA COVID-19 Country Report, Brighton: Future Agricultures Consortium, DOI: 10.19088/APRA.2020.016 Available at: <https://opendocs.ids.ac.uk/opendocs/handle/20.500.12413/16442>
3. **Hodey, L.S.** and Dzanku, F. (2020) Impact of COVID-19 on Food Systems and Rural Livelihoods in Ghana. Round 1 – September 2020, APRA COVID-19 Country Report, Brighton: Future Agricultures Consortium, DOI: 10.19088/APRA.2020.003 Available at: <https://opendocs.ids.ac.uk/opendocs/handle/20.500.12413/16437>
4. Osei, R.D, Dzanku, FM, Osei-Akoto, I, Asante, F, **Hodey, LS**, Adu, PN, Adu-Ababio, K and Coulibaly, M, (2018). Impact of voice reminders to reinforce harvest aggregation services training for farmers in Mali, 3ie Impact Evaluation Report 90. New Delhi: International Initiative for Impact Evaluation (3ie). Available at: <https://doi.org/10.23846/TW4IE90>
5. Osei, R., Osei-Akoto, I., Asante, F.A., Afranie, S., Crenstil, A., **Hodey, L.**, Adu, P., Adu-Ababio, K., Dakey, S., and Dzudzor, M. (2017). AGRA Baseline Study in Mali – Final Report. Available at: <https://agra.org/wp-content/uploads/2020/07/AGRA-Baseline-Studies-2016-Mali.pdf>
6. Osei, R., Osei-Akoto, I., Asante, F.A., Afranie, S., Crenstil, A., Adu, P., **Hodey, L.**, Adu-Ababio, K., Dakey, S., and Dzudzor, M. (2017). AGRA Baseline Study in Ghana – Final Report. Available at: <https://agra.org/wp-content/uploads/2020/07/AGRA-Baseline-Studies-2016-Ghana.pdf>

7. Osei, R., Osei-Akoto, I., Asante, F.A., Afranie, S., Crenstil, A., **Hodey, L.**, Adu, P., Adu-Ababio, K., Dakey, S., and Dzudzor, M. (2017). AGRA Baseline Study in Ghana. Available at: <https://agra.org/wp-content/uploads/2020/07/AGRA-Baseline-Studies-2016-Burkina-Faso.pdf>

### **Policy Briefs**

1. Gafa, D., **Hodey, L.** and Senadza, B. (2023). Escaped or Trapped? The Untold Story of Ghana's Poverty Reduction. The African Economic Research Consortium, Nairobi, Kenya. Available online at: <https://publication.aercafricalibrary.org/handle/123456789/3624>
2. Dzanku, F.M. and **Hodey, L.S.** (2022) Achieving Inclusive Oil Palm Commercialisation in Ghana, APRA Brief 29, Brighton: Future Agricultures Consortium, DOI: 10.19088/APRA.2022.007. Available online at: [Achieving Inclusive Oil Palm Commercialisation in Ghana \(ids.ac.uk\)](#)

### **Research Blogs**

1. Unlocking the untapped potential of oil palm farming in south-western Ghana. <https://www.future-agricultures.org/blog/unlocking-the-untapped-potential-of-oil-palm-farming-in-south-western-ghana/>
2. A tale of two countries: patterns and drivers of smallholder commercialisation in Ghana and Nigeria. <https://www.future-agricultures.org/blog/a-tale-of-two-countries-patterns-and-drivers-of-smallholder-commercialisation-in-ghana-and-nigeria/>
3. Impact of COVID-19 on food systems and rural livelihoods in south-western Ghana <https://www.future-agricultures.org/blog/impact-of-covid-19-on-food-systems-and-rural-livelihoods-in-south-western-ghana/>
4. Agricultural-based livelihood implications of COVID-19 in Ghana (1) <https://www.future-agricultures.org/blog/agricultural-based-livelihood-implications-of-covid-19-in-ghana-1/>
5. Agricultural-based livelihood implications of COVID-19 in Ghana (2) <https://www.future-agricultures.org/blog/agricultural-based-livelihood-implications-of-covid-19-in-ghana-2/>
6. APRA Ghana presents research findings in a dissemination workshop <https://www.future-agricultures.org/blog/apra-ghana-presents-research-findings-in-a-dissemination-workshop/>
7. Dilemmas of smallholder oil palm farmers in south-western Ghana <https://www.future-agricultures.org/blog/dilemmas-of-smallholder-oil-palm-farmers-in-south-western-ghana/>
8. Oil palm good, rubber better: a tale from south-western Ghana <https://www.future-agricultures.org/blog/oil-palm-good-rubber-better-a-tale-from-south-western-ghana/>
9. Agricultural Commercialisation Pathways and Household Outcomes: The Tale of Four Oil Palm Output Sales Arrangements in South-Western Ghana <https://www.future-agricultures.org/blog/agricultural-commercialisation-pathways-and-household-outcomes-the-tale-of-four-oil-palm-output-sales-arrangements-in-south-western-ghana/>