

CURRICULUM VITAE

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Nationality: Ghanaian. Date of birth: 28-10-1983

Educational Background

- 2017-2020 PhD Crop Genetics and Breeding, Nanjing Agricultural University, China
2011-2013 MSc Agronomy, Kwame Nkrumah University of Science and Technology, Ghana
2004-2008 BSc Agriculture (2nd Class Upper), University of Cape Coast, Ghana
2000-2002 SSCE, Kukuom Agric Senior Secondary School, Ghana

Other certificate programs attended

- Cocoa agronomy and agricultural extension training
Bunso Cocoa College (Ghana Cocoa Board).
- Tally Accounting Software organized by School of Business,
University of Cape Coast.
- SPSS, Epidata, Minitab and Microsoft PowerPoint
Department of Mathematics and Statistics, University of Cape Coast.
- Microsoft Suite (Ms Word, Excel, PowerPoint *etc*)
Africa Virtual University, University of Cape Coast Learning Centre.

Publications

Article in Referred Journals-Soybean and others

1. Yan W, **Karikari B**, Chang F, Zhang Z, Li D, Tuanjie Z and Jiang H. (**In Press**). Genome-Wide Association Study Unearths Genetic Bases and Candidate Genes for Four Growth Stage Traits in Summer Sowing Soybeans. *Frontiers in Genetics*.
2. Owusu EY, **Karikari B**, Kusi F, Haruna M, Amoah RA, Attamah P, Adazebra G, Sie EK, Issahaku M (**2021**). Genetic Variability, Heritability and Correlation Analysis among

- Maturity and Yield Traits in Cowpea (*Vigna unguiculata* (L) Walp) in Northern Ghana. *Heliyon*:e07890. <https://doi.org/10.1016/j.heliyon.2021.e07890>.
3. Yeboah A, Lu J, Ting Y, **Karikari B**, Shi Y, Liang W, Pan J & Yin X (2021). Genome-wide association study identifies loci, beneficial alleles and putative candidate genes for cadmium tolerance in castor (*Ricinus communis* L.). *Industrial Crops and Products*. 171, 113842. [doi:10.1016/j.indcrop.2021.113842](https://doi.org/10.1016/j.indcrop.2021.113842).
 4. Magdy M, Appiah A, Rizk S, Elhifnawi H, **Karikari B**, Ahiakpa J & El-DougDoug N (2021). Genome Sequence of an Okra Leaf Curl Virus from Egypt. *Microbiology Resource Announcements*. 10(29), e00533-21. [doi:10.1128/MRA.00533-21](https://doi.org/10.1128/MRA.00533-21).
 5. Xiao Y, **Karikari B**, Wang L, Chang F, Zhao T (2021). Structure characterization and potential role of soybean phospholipases A multigene family in response to multiple abiotic stress uncovered by CRISPR/Cas9 technology. *Environmental and Experimental Botany*, 104521. <https://doi.org/10.1016/j.envexpbot.2021.104521>.
 6. Ahiakpa JK, Magdy M., **Karikari B.**, Munir S., Saira M., Ali MM., Ahmad TS., Liu G., Chen W., Wang Y. & Zhang Y (2021). Genome-wide identification and expression profiling of tomato invertase genes indicate their response to stress and phytohormones. *Journal of Plant Growth*. <https://doi.org/10.1007/s00344-021-10384-5>.
 7. Elattar MA, **Karikari B**, Li S, Song S, Cao Y, Aslam M, Hina A, Abou-Elwafa SF and Zhao T (2021). Identification and validation of major QTLs, epistatic interactions and candidate genes for soybean seed shape and weight using two related RIL populations. *Frontiers in Genetics*, 12:666440. [doi: 10.3389/fgene.2021.666440](https://doi.org/10.3389/fgene.2021.666440).
 8. Chang F, Lv W, Lv P, Xiao Y, Yan W, Chen S, Zheng L, Xie P, Wang L, **Karikari B**, Abou-Elwafa SF, Jiang H & Zhao T (2021). Exploring genetic architecture for pod-related traits in soybean using image-based phenotyping. *Molecular Breeding*.41(4). <https://doi.org/10.1007/s11032-021-01223-2>.
 9. Cao Y, Zhang X, Jia S, **Karikari B**, Zhang M, Xia Z, Zhao T & Liang F (2021). Genome-wide association among soybean accessions for the genetic basis of salinity-alkalinity tolerance during germination. *Crop and Pasture Science*. 72(4), 255-267. <https://doi.org/10.1071/CP20459>.
 10. **Karikari B**, Wang Z, Zhou Y, Yan W, Feng J, & Zhao T (2020). Identification of Quantitative Trait Nucleotides and Candidate Genes for Soybean Seed Weight by Multiple Models of Genome-wide Association Study. *BMC Plant Biology*. 20:404 [doi:10.1186/s12870-020-02604-z](https://doi.org/10.1186/s12870-020-02604-z).
 11. **Karikari B**, Bhat JA, Denwar NN & Zhao T (2020). Exploring the Genetic Base of the Soybean Germplasm from Africa, America & Asia as well as Mining of Beneficial Allele for Flowering and Seed-weight. *3Biotech*. 10:195. [doi:10.1007/s13205-020-02186-5](https://doi.org/10.1007/s13205-020-02186-5).
 12. Owusu EY, Amadu MA, Haruna M, Adjebeng-Danquah J, Kusi F, **Karikari B** & Sie EK (2020). Diallel analysis and heritability of grain yield, yield components and maturity traits in cowpea in northern Ghana. *The Scientific World Journal*, 9390287, 9. [doi:10.1155/2020/9390287](https://doi.org/10.1155/2020/9390287).
 13. **Karikari B**, Li S, Bhat JA, Cao Y, Kong J, Yang J, Gai J & Zhao T (2019). Genome-Wide Detection of Major and Epistatic Effect QTLs for Seed Protein and Oil Content in Soybean Under Multiple Environments Using High-Density Bin Map. *International Journal of Molecular Sciences*, 20(4), 979; [doi:10.3390/ijms20040979](https://doi.org/10.3390/ijms20040979).
 14. **Karikari B**, Chen S, Xiao Y, Chang F, Zhou Y, Kong J, Bhat JA, & Zhao T (2019). Utilization of Interspecific High-Density Genetic Map of RIL Population for the QTL

- Detection and Candidate Gene Mining for 100-Seed Weight in Soybean. *Frontiers in Plant Science*, 10:1001. [doi: 10.3389/fpls.2019.01001](https://doi.org/10.3389/fpls.2019.01001).
15. Cao Y, Li S, Chen G, Wang Y, Bhat JA., **Karikari B**, Kong J., Gai J., & Zhao, T (2019). Deciphering the Genetic Architecture of Plant Height in Soybean using Two RIL Populations Sharing Common Parent M8206. *Plants*. 8, 373; [doi:10.3390/plants8100373](https://doi.org/10.3390/plants8100373).
 16. Antwi-Boasiako A., **Karikari B.** & Abrokwah AO (2017). Screening soybean genotypes for resistance to rust disease. *Journal of Scientific Research in Allied Sciences*. 6(3):470-483.
 17. **Karikari B**, Arkorful E. & Addy S (2015). Growth, Nodulation and Yield Response of Cowpea to Phosphorus Fertilizer Application in Ghana. *Journal of Agronomy*, 14 (4): 234-240. [doi:10.3923/ja.2015.234.240](https://doi.org/10.3923/ja.2015.234.240).
 18. **Karikari B.** & Arkorful E (2015). Effect of Phosphorus Fertilizer on Dry Matter Production and Distribution in Three Cowpea (*Vigna unguiculata* L. Walp.) Varieties in Ghana. *Journal of Plant Sciences*, 10 (5): 167-178. [doi: 0.3923/jps.2015.167.178](https://doi.org/0.3923/jps.2015.167.178).
 19. Wolde Z, Wei W, Ketema H & **Karikari B (Under Review)**. Quantifying and Linking Sustainable Land - Water - Energy -Food nexus and Livelihoods of Local Community. *Integrated Environmental Assessment and Management*.
 20. Bhat JA, **Karikari B**, Ganie SA, Hu D and Yu D (**Under Review**). Identification of Superior Haplotype Alleles in a Diverse Natural Population for Breeding Desirable Plant Height in Soybean. *Theoretical and Applied Genetics*.
 21. Setor K, Li L, Jiang Y, Xie J, **Karikari B**, Wang L, Anwar S, Wang J and Haider F (**Under Review**). Different soil amendments within rainfed maize field in Semiarid Loess Plateau alter ammonia-oxidizing archaea and bacteria community within co-occurrence network. *Applied Soil Ecology*.
 22. Mbadianya IJ, Uyanga VA, Jimoh SO, Kanu UC, Okoye CO, Afriyie E, Mak-Mensah E, Agyenim-Boateng KG, Ogunyemi SO, Ahiakpa JA, Nkoh JN, **Karikari B (Under Review)**. African Agriculture in the Face of COVID-19: Impacts and Lessons Learned. Food Security.
 23. Ahiakpa JA, **Karikari B**, Magdy M, Munir S, Mumtaz MA, Li F, Ying W & Shang L (**Under Review**). Regulation of Invertase for improving tomato fruit flavor: A review. *Horticultural Plant Journal*.
 24. Effah Z, Li L, Xie J, Liu C, Xu A, Min Z & **Karikari K (Under Review)**. Long-term application of N fertilizer revealed the optimum rate and its relationship with photosynthetic traits, grain yield and quality in spring wheat in the semi-arid loess plateau. *Agronomy*.
 25. Sharmin RA, **Karikari B**, Chang F, Al Amin GM, Bhuiyan MR, Hina A, Lv W, Chunting Z, Begum N & Zhao T (**Under Review**). Genome-wide Association Study Uncovers Major Genetic Loci Associated with Seed Flooding Tolerance in Soybean. *BMC Plant Biology*.
 26. Effah Z, Li L, Xie J, **Karikari K**, Liu C, Xu A & Min Z (**Under Review**). Transcriptome profiling reveals major structural genes, transcription factors and biosynthetic pathways involved in leaf senescence and nitrogen remobilization in spring wheat under nitrogen fertilization. *Genomics*.

Book Chapters

1. Yirzagla J, Atokple IDK, Haruna M, Abdul Razak M, Adobaba D, Haruna B & **Karikari B (2021)**. Impacts of cowpea innovation platforms in sustaining TL III project gains in Ghana. In E. Akpo et al. (eds.) *Enhancing Smallholder Farmers' Access to Seed of Improved Legume Varieties Through Multi-stakeholder Platforms*, pp. 171-183. Springer, Singapore.
[do:10.1007/978-981-15-8014-7_12](https://doi.org/10.1007/978-981-15-8014-7_12).
2. **Karikari B**, Bhat JA, Ahiakpa JA and Addy SNTT (Submitted). Recent advances and applicability of GBS, linkage mapping, GWAS, and GS in pulses. In Genotyping by sequencing for crop improvement (eds: Sonah H, Goyal V and Shivara SM). Wiley and Sons. Chapter 19.

Protocol Development

1. Amagloh, FC, Atokple, IDK, Mohammed AR., **Karikari B.**, Haruna B, Yirzagla J, Owusu EY, Iddi M, Munir HS and Gbeadese J (2017). Cowpea Utilization in Ghanaian Traditional Dishes and Continental Composite Flour Products – Preparation Manual. Council for Scientific and Industrial Research – Savanna Agricultural Research Institute, Ghana. Available on <https://www.researchgate.net/publication/351698306>.
2. The USAID Cowpea Project, CSIR-SARI, IITA and MoFA (2017). Successful Cowpea Production Guide, USAID Cowpea Project. Available at CSIR-SARI.

Technical Reports

1. Ahiakpa JK, **Karikari B**, Ametowobla A & Frimpong S (2020). Effects of COVID-19 on agribusinesses in Ghana, Agribusiness Sector Survey Report, 2020. Chamber of Agribusiness Ghana, [10.13140/RG.2.2.25588.99208](https://doi.org/10.13140/RG.2.2.25588.99208).
2. Ahiakpa JK, **Karikari B**, Akakpo DB & Frimpong S (2020). Baseline Survey Report for Aflatoun International and Savana Signatures prior to the Aflateen+ programme (Submitted).
3. Ahiakpa JK and **Karikari B**, Akakpo DB & Frimpong S (2021). Endline Survey Report for Aflatoun International and Savana Signatures for the Aflateen+ programme (yet to submit).

Contribution in scientific community

1. Guest Editor, MDPI Plants on the special issue Germplasm Resources and Soybean Breeding). August 2021-April 2022
2. Review of manuscripts for high reputed science citation index journals in plant sciences (Genomics, Plant Breeding & Acta Agriculturae Scandinavica, Section B - Soil & Plant Science)- 2017-2021

Professional Experiences

December 01, 2020-to- date:

Lecturer: University for Development Studies (UDS), Faculty of Agriculture, Food and Consumer Sciences, Department of Crop Science.

Achievements

- Prepare and deliver lectures
- Supervise Diploma and Undergraduate students project work
- Actively participate in Undergraduate and Postgraduate students in their research progress presentations
- Lead in proposal writing for accreditation to start MPhil/PhD Plant Breeding Programme at the University
- Train students on emerging issues in genomics in both plant and human biology

October 1, 2015 to September 15, 2017:

Project Assistant on USAID Cowpea Out-scaling Project;
International Institute of Tropical Agriculture (IITA) & CSIR-Savannah Agricultural Research Institute

Achievements

- Assisted National Coordinator to establish and launch three Innovative Platforms for Cowpea in the three Northern regions of Ghana.
- Supported the National Coordinator to establish demonstrations on Good Agronomic Practices (GAP) and Integrated Pest Management (IPM).
- Analyzed and interpreted data from 2015 cropping season and contributed to the writing of 2015 Annual Reports to donors and partners.
- Organized meetings and trainings for stakeholders in the cowpea value chain across the three Northern regions of Ghana.
- Developed presentation materials for Project Coordinator and other team members on the project for presentation in Ghana and abroad.
- Established/strengthened Farmer Based Organizations (FBOs) and Community Based Organizations (CBOs) across the administrative districts in the northern Ghana.

December 3, 2014 to March 4, 2015:

Acting Municipal Director of Agriculture,
Ministry of Food and Agriculture, Dormaa Municipal Directorate

Achievements

- Supervised the implementation of sector policies and programmes across the municipality.
- Organized 2014 Municipal Farmers' Day.
- Participated in all stakeholders meetings.
- Presented and defended the Municipal's Annual Work Plan and Budget.
- Appraised staff for 2014.
- Performed administrative and financial duties.

March 2, 2011 to May 4, 2015:

Municipal Monitoring, Evaluation and Management Information System (MIS) Officer,
Ministry of Food and Agriculture, Dormaa Municipal Directorate

Achievements

- Ensured implementation of sector policies and programmes.
- Coordinated sector programmes in the municipality.
- Prepared Municipal's Annual Plan and Budget.
- Monitored and evaluated agricultural sector programmes, projects and expenditures.
- Provided technical support in project appraisal, mid-term and project completion evaluations of programmes and projects under the ministry in the Municipality.
- Disseminated information on the implementation of agricultural sector activities.
- Collated and submitted monthly, quarterly and annual progress reports to Regional Agricultural Office and other appropriate quarters.

December 1, 2009 to May 4, 2015:

Municipal Development Officer-Extension,
Ministry of Food and Agriculture, Dormaa Municipal Directorate

Achievements

- Trained, coordinated and monitored Agricultural Extension Agents (AEAs).
- Trained farmers and coordinated activities of NGOs.
- Appraised of AEAs.
- Prepared and submitted Progress Report.
- Facilitated Radio Programme "Akufo Nkonso" on the two FM Stations.
- Trained Farmer Based organizations (FBOs) and Community Based Organizations (CBOs) on Group Dynamics.
- Desk officer for Government Fertilizer Subsidy Programme from 2009 - 2011. Supervised, coordinated and reported on Programme activities.
- Desk officer for Block Farm Programme from 2010 - 2012. Supervised, coordinated and reported on Block Farm Programme activities which have resulted in an average of 96 percent recovery for of the total cost of the project in each year.
- Desk officer – HIV AIDS from 2009 to 2012. Supervised, coordinated and reported on HIV AIDS issues in the Agriculture Directorate.

September 1, 2009 to November 31, 2009:

Casual Technical Officer,
Cocoa Swollen Shoot Virus Disease Control Unit.
Ghana Cocoa Board, Head Office, Accra.

Achievements

- Wrote reports and analyzed cocoa yield.
- Administered questionnaires on behalf of the Unit.
- Coordinated other causal technical officers for questionnaires administrated.
- Analyzed data collected via questionnaires.

October 2008 to July 2009:

National Service Personnel,
Cocoa Swollen Shoot Virus Disease Control Unit,
Ashanti Regional Office, Kumasi

Achievements

- Assisted in analysis of data from eight cocoa growing districts in Ashanti Region.
- Inspected treated and replanted farms.
- Worked on vouchers (IT, RP, Ex-gratia and etc).
- Assisted Nkawie District Cocoa Officer in report writing, and organisation of workshops particularly on Worst Form of Child Labour.
- Ran installation of software on computers and helped in typesetting of reports.
- Administered questionnaires on behalf of COCOBOD in assessing impact of Cocoa Sector Support Programmes.
- Learned Pathfinder Software and helped Cartographic Staff at Nkawie District to submit its first map (block) using the GPS.
- Analysed questionnaires using SPSS during Cocoa Sector Programme Impact Assessment in Nkawie District and submitted detailed results to Management at Kumasi and Accra for review which resulted in my appointment as Casual Technical Officer.

August to October 2006:

Attaché, Adventist Development Relief Agency (ADRA) Ghana,
Non-Governmental Organization, Kintampo Area Office

Achievements

- Assisted Field Project Officer in training farmers
- Helped in writing technical reports

Academic Research Projects

1. QTL Mapping and Candidate Gene Analyses of Three Seed-Related Traits in Soybean. A Dissertation Presented to the Nanjing Agricultural University in Partial Fulfillment of the Requirement for the Degree of Doctor of Philosophy in Crop Genetics and Breeding (June, 2020).
2. Genetic dissection of seed-quality traits by application of single-locus and multi-locus models of genome-wide association studies. This project was aimed to use linkage disequilibrium (LD) among natural population of soybean to identify quantitative trait nucleotides (QTNs) responsible phenotypic variation in seed-quality traits (One manuscript on seed weight submitted for publication in *BMC Plant Biology*)
3. Application of gene editing technology (CRISPR/Cas9 tool) to study gene function. The aim of this project was to generate mutants by knocking out of 3 genes to study their

functions under abiotic stress conditions and influence on seed-related traits. Also, this project targeted to create new genotypes for future breeding programs. More than 10 homozygous lines obtained from the knocked-out of the 3 genes. Eight of the lines were evaluated under flooding, phosphorus and iron deficient conditions together with the wild type (Manuscript drafted yet to submit for publication).

4. Genome-wide identification and characterization of a gene family (3 genes knocked out by CRISPR/Cas9) in soybean genome and other legume crops. The aim of this project was to undertake comparative genomics among the leguminous crops to identify and characterize a gene family to discover their potential roles in regulating plant response to biotic and abiotic stress and their roles regulating plant growth and development including seed-related traits (Completed, drafted manuscript yet to be submitted for publication).
5. Quantitative trait loci mapping via linkage mapping method: This project was aimed at identifying loci responsible for seed-quality traits (seed weight, seed protein and oil). Many candidate genes mined for each of the targets. A number of candidate genes have been cloned for function validation and verification. Two papers published as lead-author under this project.
6. Genetic diversity, population structure and mining of beneficial alleles among soybean germplasm assembled from Africa, America and Asia. The project was conducted in Nanjing Agricultural University, China to understand soybean breeding program in the world especially Africa with aim of designing future breeding programs to boost yield potential in the mist of abiotic and biotic stress. Several germplasm have been selected for future breeding program in Africa (One publication in *3Biotech*).
7. Dry matter accumulation, partition and yield in three cowpea (*Vigna unguiculata* (L) Walp) varieties as influenced by phosphorus fertilizer application: A thesis submitted to the Department of Crop and Soil Sciences, Faculty of Agriculture of the College of Agriculture and Natural Resources, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana in partial fulfillment of the requirement for the award of Master of Science Degree in Agronomy (Crop Physiology). © August, 2013.
8. Elucidating the soil forming processes in the Edina Series (Haplic Regosol): A dissertation presented to the Soil Science Department, School of Agriculture, University of Cape Coast in partial fulfillment of the requirement for the award of the Bachelor of Science (Agriculture) honours degree. © May, 2008.

Experience in Statistical and other relevant tools

<i>Statistics</i>	<i>Population Genetics</i>	<i>Genomics</i>	<i>Bioinformatics</i>	<i>Others</i>
SAS	PowerMarker	TASSEL	BioEdit	Linux
GenStat	Darwin	R (GAPIT)	GeneDoc	html (website design)
Minitab	NTSYS	R (mrMLM.GUI)	Clustal	css (website design)
Stata	MEGA	QTLNetwork	Cytoscape	
SPSS	Structure	QTL IciMapping	DNAMAN	
Origin	Structure harvester	WinQTLCart	Online tools	
Graph Prism	GenAlEx	TB tool	Online databases	
Statistica	Arlequin	CRISPR/Cas9 tool		
Statgraphics	PLINK	Primer design tools		
Design Expert	ADMIXTURE	RTM-GWAS		
MatLab (basic)	TreeView	Online tools		
Statistics		Online databases		
KyPlot				
Excel				
R				
EpiData				

Skills and Competencies

- **Technical:**
 1. Strong Computer Skills
 2. Good report writing skills
 3. Strong analytical and quantitative skills
 4. Good presentation and communication skills
 5. Ability to drive with valid license category B (Ghana license)
- **Personality:**
 1. Practical oriented
 2. Ability to relate effectively to people at all levels
 3. Self-motivated
 4. Snap decision maker but discerning and prudent
- **Managerial:**
 1. Team player and leader
 2. Ability to deliver work to tight deadlines
 3. Initiator

Conferences and Trainings attended

1. Global Confederation of Higher Education Associations for Agricultural and Life Sciences Conference in 2017, 2018 and 2019 held at Nanjing Agricultural University, Nanjing, China
2. The 1st China–Africa Forum on Tropical Agricultural Science and Technology Cooperation on 29th to 31st August, 2018 at Qionghai, Hainan Province, China
3. Second Asia-Pacific Plant Phenotyping Conference, 23-25 March, 2018 Nanjing organized by Nanjing Agricultural University, Lecture on applications of auxin biology in crop improvement by Professor Yunde Zhao organized by College Agriculture, Nanjing Agricultural University 27th January, 2018
4. Lecture on mobile RNA, epigenetics and alternative splicing – molecular mechanisms of plants adapting to harsh environment by Professor Shoudong Zhang organized by College of Agriculture on 20th February, 2018
5. Lecture on molecular aspect of plant-cysts nematode interaction and soybean seed quality traits breeding strategies by Professor Tarek Hwei and Professor Pantalone Vince of Department of Plant Sciences, University of Tennessee, Knoxville on 15th December, 2018
6. One day intensive training on budget preparation at MoFA Regional Office - Sunyani
7. One week computer training in South Ridge Hotel, Sunyani
8. Two days training on Fertilizer Subsidy Programme in Anita Hotel, Ejisu Kumasi
9. One day training on the usage of AgricRegi Software for Farmers Registration MoFA Regional Office - Sunyani
10. One week training on value chain and agricultural financing at Dery Hotel, Techiman
11. Three days workshop on decentralization for Directors of Agric in Ghana at KNUST, Kumasi
12. Three days sensitization workshop on seed and fertilizer Act (Act 803) and Policy at Anita Hotel
organized by MoFA but funded by USAIDs, Feed the Future.

Leadership Experiences

1. Laboratory management committee member in-charge of experiments of international students in Prof. Zhao's laboratory in Nanjing Agricultural University, China (November 2018 to-June 2020).
2. Advisory and disciplinary committee, Nanjing Chapter of National Union of Ghana Students (NUGS) in China (2018/2019 academic year).
3. Organizer: Association of Certified Enterpreneuers' Club, University of Cape Coast Branch (2007 to 2008).

Awards Received

1. Second Best Distinguished International Student under China Scholarship Council (CSC) Postgraduate scholar in Nanjing Agricultural University for the period 2018-2019.
2. Excellent International Students' Award for 2018-2019
Nanjing Agricultural University by College of International Education

3. Jiangsu Provincial Government Award for 2018-2019
Nanjing Agricultural University by College of International Education

Voluntary Services

- Review of manuscripts for high reputed science citation index journals in plant sciences.
- Trained my former colleagues and others in the use of statistical and bioinformatics tools for analysis.
- Trained Ghanaian scholars in National Union of Ghanaian Students (NUGS)- Nanjing Chapter on use of 16 different statistical tools and writing to avoid plagiarism /academic theft.
- Trained Ghanaian scholars in NUGS-Hangzhou Chapter on thesis writing in sciences.
- Trained more than 20 final year students in University of Development Studies on use of SPSS for data analysis.
- Embarked on HIV/AIDS Community HIV/AIDS Outreach organized by Ghana Association of Agricultural Students (GAAS), University of Cape Coast Chapter in February 2007
- Taught pupils at Kwapong Seventh Day Adventist Junior High School as Maths, Science Agric from October 2002 to 2003.

Hobbies

- Playing of table tennis.
- Gardening
- Computing

Referees

1. Professor Tuanjie Zhao (PhD Supervisor)
Nanjing Agricultural University
College of Agriculture
State Key Laboratory of Crop Genetics and Germplasm Enhancement
Key Laboratory of Biology and Genetics and Breeding for Soybean
National Center for Soybean Improvement
Jiangsu Province - Nanjing
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2. Dr. Ibrahim Dzido Kwasi Atokple
Council for Scientific and Industrial Research – Savanna Agricultural Research Institute (CSIR-SARI).
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3. Professor Joseph Sarkodie Addo
Kwame Nkrumah University of Science and Technology,
Crop and Soil Sciences Department,
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