

CURRICULUM VITAE

Camillus Abawiera Wongnaa

Senior Lecturer, Department of Agricultural Economics, Agribusiness and Extension, Faculty of Agriculture Kwame Nkrumah University of Science and Technology (KNUST), Private Mail Bag, University Post Office, Kumasi, Ghana.

Phone: +233206752159 and +233243389509

E-mail: wongnaaa@yahoo.com / cawongnaa.canr@knust.edu.gh

EDUCATION

- PhD. Agricultural Economics – Kwame Nkrumah University of Science and Technology (KNUST), 2016
Focus: *Economic Efficiency and Productivity*
Dissertation topic: *Economic Efficiency and Productivity of Maize Farmers in Ghana*
- MPhil. Agricultural Economics - University of Ghana, Legon, 2009
Focus: *Productivity and Viability of Tree Crop Production*
Thesis topic: *Economic Analysis of Cashew Production in the Wenchi Municipality, Ghana*
- BSc. Agriculture (Option: Agricultural Economics), Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana, 2005
Focus: *Profitability of Ghana's tomato production*
Thesis topic: *Cost and Revenue Analysis of Wet Season Tomato Production in the Wenchi District of the Brong-Ahafo Region of Ghana*
- Dip. Education, University of Education, Winneba, Ghana, 2014
Focus: *Effective teaching of Mathematics*
Thesis topic: *A Guide for Teaching First Year Core Mathematics at the Senior High School*
- Certificate, Philanthropy University and University of California, Berkeley, USA.
Focus: Planning for Monitoring and Evaluation.

PROFESSIONAL EXPERIENCE

- **August, 2020 to Date:** Senior Lecturer, Department of Agricultural Economics, Agribusiness and Extension, Faculty of Agriculture, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.
- **May, 2020 to Date:** Member of Department E-Learning Committee following COVID-19 Pandemic, Department of Agricultural Economics, Agribusiness and Extension, Faculty of Agriculture, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.
- **November, 2019 to Date:** Programme Coordinator of Agricultural Economics,

Department of Agricultural Economics, Agribusiness and Extension, Faculty of Agriculture, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.

- **July, 2019 to Date:** Secretary to Graduate Committee of Department of Agricultural Economics, Agribusiness and Extension, KNUST, Kumasi, Ghana.
- **December, 2018 to Date:** Deputy Coordinator in Charge of Marking Multiple Choice Questions (MCQs), Faculty of Agriculture, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.
- **September, 2018 to Date:** Assistant Departmental Examination Officer, Department of Agricultural Economics, Agribusiness and Extension, Faculty of Agriculture, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.
- **September, 2018 to Date:** Member of Department Media and Publicity Committee, Department of Agricultural Economics, Agribusiness and Extension, KNUST, Kumasi, Ghana.
- **January, 2017 to Date:** Hall Fellow, Unity Hall, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
- **January, 2017 to Date:** Member of Departmental Research and Development Committee, Department of Agricultural Economics, Agribusiness and Extension, KNUST, Kumasi, Ghana.
- Member of Publicity and Fund Raising Committee: 2018 Conference of Ghana Association of Agricultural Economists from 8th – 11th August, 2018, KNUST, Kumasi.
- **January, 2017 to Date:** KNUST Coordinator, Next Generation Researchers (NGR), United Nations University (UNU)'s project on "Education for Sustainable Development in Africa (ESDA)", Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
- **September, 2016 to Date:** Academic Tutor, Faculty of Agriculture, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
- **26th August, 2016 to Date:** Lecturer, Department of Agricultural Economics, Agribusiness and Extension, Faculty of Agriculture, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.
- **2011 to 2014:** Developed Syllabi for Diploma in Agribusiness and Finance, Higher National Diploma in Agribusiness and Entrepreneurship and Bachelor of Technology in Agribusiness and Entrepreneurship for Department of Agropreneurship, Kumasi Technical University, Kumasi, Ghana.
- **February, 2014 - August, 2016:** Senior Lecturer, Department of Agropreneurship, Kumasi Technical University, Kumasi, Ghana.
- **1st October, 2011 to 31st July, 2014:** Head of Department of Agropreneurship, Kumasi Technical University, Kumasi, Ghana.
- **January, 2012 to February, 2015:** Part-time Lecturer/Senior Lecturer, Methodist University College, Ghana.
- **October, 2011 – August, 2012:** Coordinator for Agropreneurship, Faculty of Entrepreneurship and Enterprise Development, Kumasi Technical University.
- **February, 2011 to February, 2014:** Lecturer, Department of Agropreneurship, Kumasi Technical University, Kumasi, Ghana.
- **2006 to 2007:** Core Mathematics, Integrated Science, Chemistry, Elective Mathematics

- and Physics Teacher, Istiqama Senior High School, Wenchi-B/A (Part-time)
- **2006 to 2007:** National Volunteer Service person, Wenchi Secondary School (WESS) (Core Mathematics, Integrated Science, Chemistry, General Agriculture, Animal Husbandry and Elective Mathematics Teacher).
 - **2005 to 2011: Maize Farmer,** Abotareye near Wenchi, Bono, Region, Ghana
 - **2005 to 2010:** Core Mathematics, Integrated Science, Chemistry, Elective Mathematics, Biology and Physics Teacher at Dito Dito Remedial Classes for WASSCE candidates, Wenchi-B/A (A remedial school I established).
 - **2005 to 2006:** National Service Person, Wenchi Secondary School (WESS) (Core Mathematics, Integrated Science, Chemistry, General Agriculture, Animal Husbandry and Elective Mathematics Teacher).
 - **2004:** Industrial Attachment at Wenchi Tomato Processing Factory (Afrique Link Limited) (Participated fully in activities on the Company's Tomato farm from nursery to the field).
 - **2000 to 2009: Visiting Teacher,** Grace Preparatory/Junior High School, Wenchi, Ghana.
 - **2000 to 2001: Full-Time Teacher,** Grace Preparatory/Junior High School, Wenchi, Ghana.

UNIVERSITY COURSES/SUBJECTS TAUGHT

SN	Course/Subject	Level
1	Agricultural Economics	BSc.
2	Macroeconomics	BSc.
3	Business Economics	MSc./MPhil.
4	Introduction to Macroeconomics	BSc.
5	Research Methods II and Resource Mapping	MPhil.
6	Production Economics	BSc./MPhil.
7	Qualitative and Quantitative Methods for Agribusiness	MSc./MPhil.
8	Introduction to Agriculture	HND
9	Livestock Production and Management	HND
10	Apiculture	HND
11	Entrepreneurship	HND/BSc.
12	New Venture Creation	HND
13	Research Methods	HND
14	Micro-Livestock, Snails and Mushroom Production	HND
15	Economics for Managers	HND
16	Poultry Production and Management	HND
17	Strategic Entrepreneurship	HND
18	Agricultural Co-operatives	BSc.
19	Agricultural Development Policy and Marketing	BSc.
20	Agribusiness Management	BSc.

Note: HND = Higher National Diploma, BSc = Bachelor of Science, MSc = Master of Science and MPhil = Master of Philosophy

STUDENTS' PROJECTS SUPERVISED

SN	Topic	Level
1	Profitability Analysis of Sachet Water Production in the Kumasi Metropolis	HND
2	Financing Urban Vegetable Crop Production in Ghana, Debt or Equity	HND
3	An Economic Analysis of Cabbage Production among Vegetable Farmers in the Kumasi Metropolis	HND
4	Determinants of Profit in Wholesale and Retail Tomato Marketing in Kumasi Central Market	HND
5	Assessing the Effectiveness of Performance Management System of the State Insurance Company (SIC)	HND
6	An Economic Analysis of Cabbage Production among Vegetable Farmers in the Kumasi Metropolis	HND
7	Impact of Mining Activities on Agriculture Land and Food Security. A case study of Manso Nkwanta in the Amansie West District	HND
8	Assessing Consumers' Perception and Willingness to Pay for Tiger-Nut Yoghurt	BSc.
9	Profitability of Urban Vegetable Production	BSc
10	Effect of Farmer Based Organizations Membership On the Profit Margin and Market Growth Rate of Tomato Farmers in Offinso North District	BSc.
11	The Use of Hybrid Seed Maize and Its Effects On Productivity: A Comparative Study of Attebubu-Amantin and Ejura-Sekyedumase Districts	BSc.
12	Analysis of Coffee Production Among Smallholder Farmers in the Dormaa Municipality, Ghana	BSc.
13	Access to Credit and its Effect on Rice Production: A Case Study of Smallholder Rice Farmers in The Tolon District, Ghana	BSc.
14	Analysis of Coffee Production Among Smallholder Farmers in The Dormaa Municipality, Ghana	BSc.
15	Analysis of Structure, Conduct and Performance of Onion Market in Southern Ghana	BSc.
16	Assesment of Compliance with Recommended Maize Production Practices in Ejura-Sekyedumase Municipality; The Case of Open Pollinated Varieties	BSc.
17	Decision to go into Cashew Nut Production and Choice of Market Outlets	BSc.
18	Participation in Mining Production and its impact on the Profitability of Crop Production	BSc.
19	Participation in Soybean Production and its impact on the Welfare of Farmers	BSc.
20	Assessment of Household Food Insecurity and Vulnerability in the Asokore Mampomg Municipality, Ghana	BSc.
21	Economic Analysis of Integrated Crop-Livestock Production Systems in Ghana	MPhil
22	An Assessment of Sustainability in Community-Managed Water Supply Services in Ghana: The Case of Jacobu Small Town Water Supply System in the Amansie Central District of Ashanti Region	MPhil
23	Farmer Business School Participation and its impact on Productivity, Food Security, Income and Poverty Reduction of Cocoa Farmers	MSc
24	Prospects of Artificial Pollination in Ghana's Cocoa Production: Evidence from Amenfi West (Samreboi) District of Western Region, Ghana	MSc
25	Adoption and Impact of Orange-Fleshed Sweet potatoes On Food Security in Northern Ghana	MPhil

26	Impact of Adoption of production technologies on the profit efficiency of cocoa farmers in the western region of Ghana	MSc
27	Assessing the Market Potential of Cashew Fruit Juices in Ghana	MPhil
28	Willingness to Patronize a Mechanized Cassava Peeling and Grating Service Among Small Scale Cassava Processors in the Bono East Region	MPhil
29	Sustainability of Community-Led Management of Natural Resources in the High Forest Zone of Ghana	MPhil
30	Adoption of Drought Tolerant Technologies on the Welfare of Rice Farmers	MPhil
31	Impact of Input Credit Scheme On Productivity and Food Security of Smallholder Rice Farmers in The Mamprugu Moagduri District in The North East Region: A Case of Integrated Water and Agricultural Development (IWAD)	MPhil
32	Effects of Entrepreneurial Behaviour on the Choice of Market Outlets Among Smallholder Rice Producers in Bosome Freho District of Ashanti Region, Ghana	MPhil
33	Profitability Analysis of Rabbit Production: A Case Study of the Upper Denkyira East Municipal	MPhil
34	Effects of Maize Price Variability on commercial poultry production; the case of Dormaa Ahenkro in the Brong Ahafo Region of Ghana	MPhil
35	Impact of Planting for Food and Jobs Programme on the Welfare of farmers in the Ahafo Ano South East District	MPhil
36	Access to credit and its impact on technical efficiency and food security of small-scale women gari processors in Ghana	PhD
37	Gendered implications of Drought Tolerant Maize Production on Household Income and Food Security of Smallholder Farmers in Ghana	PhD
38	Assessment of Agripreneurship Training on Job Creation by Graduates of Agricultural Colleges in Ghana	PhD
39	Social Support Networks, Access To Credit and Performance of the Informal Agri-Food Sector in Ghana	PhD
40	The Effect of Improved Agricultural Technology Adoption on Maize Yield and Food Security Status of Smallholder Maize Farmers' Households in the Ashanti Region of Ghana	PhD

OTHER PROFESSIONALLY RELATED EXPERIENCE

In addition to the teaching and supervision of student project work/theses/research, I also examined/assessed the following postgraduate thesis for School of Graduate Studies, KNUST as well as University of Energy and Natural Resources, Sunyani, as an Independent Internal Examiner

1. Organic and Conventional Cocoa Production in Ghana: Adoption, Technical Efficiency and Gender by Justice Djokoto for PhD. Agricultural Economics, Kwame Nkrumah University of Science and Technology, Ghana. March, 2017.
2. Factors influencing adoption of food safety technologies for vegetable production in urban and peri-urban Accra, Ghana by Gyinadu Abubakar for MPhil. Agricultural Economics, Kwame Nkrumah University of Science and Technology, Ghana. May, 2017.

3. Economic analysis of saving behavior of tomato farmers in Ghana by Daniel Aidoo–Mensah for PhD. Agricultural Economics, Kwame Nkrumah University of Science and Technology, Ghana. November, 2017.
4. Effect of Climate Change Farm Adaptation Measures on Yield and Income of Cocoa Farmers in the West Akim Municipal by Benjamin Agyekum Duah for MPhil Sustainable and Integrated Rural Development, Kwame Nkrumah University of Science and Technology, Ghana. October, 2018.
5. Impact of Contract Farming On Food Insecurity of Rice Farmers in Kassena Nankana Municipality of Ghana by Reuben Jagri Binpori for MPhil. Sustainable and Integrated Rural Development, Kwame Nkrumah University of Science and Technology, Ghana. March, 2019.
6. Challenges of Small-Scale Palm Oil Processing in The Kwaebibirem Municipality of Ghana by Daniel Nyarko for MSc. Agribusiness Management, Kwame Nkrumah University of Science and Technology, Ghana. March, 2019.
7. Stakeholders Satisfaction of Coporate Social Projects: Implications for Jatropha Plantation Expansion by Isaac Afrifa Acheampong for MSc. Agribusiness Management, Kwame Nkrumah University of Science and Technology, Ghana. March, 2019.
8. Comparative Analysis of the Profitability and Technical Efficiency for Rice Farming Using Traditional and Improved Milling Machines in the Segou Region, Mali by Mamoutou Dit Djamba Sissoko for MPhil. Agribusiness Management, Kwame Nkrumah University of Science and Technology, November, 2019.
9. Adoption of Hybrid Cocoa Seedlings and its Impact on Cocoa Production in the Jukwa District of the Central Region by Sobie Anthony for MSc. Agribusiness Management, Kwame Nkrumah University of Science and Technology, November, 2019.
10. Enhancement of Entrepreneurial Skills of Tree farmers in the Moist Semi-Deciduous Forest Zones by Ophelia Princess Mensah for MPhil Social Forestry and Environmental Governance, University of Energy and Natural Resources, Sunyani, Ghana. May, 2019.

CONSULTANCY SERVICES

- February, 2017: **Co-consultant.** End of project evaluation of the Sorghum Value Chain Project; Commissioned by Concern Universal (Ghana) and Alliance for Green Revolution in Africa (AGRA).
- March, 2017: **Lead Consultant.** Promotion of Knowledge Exchange, Creation and Sharing Between Africa and Asia in Support of Africa’s Sustainable Development, funded by the African Development Bank Japan Trust Fund (“JTF”). United Nations University (UNU)’s project on "Education for Sustainable Development in Africa (ESDA)".
- June, 2017: **Consultant (Agricultural Economist).** Impact Study of Root Capital’s Agricultural Enterprises that link Smallholder Farmers to Market in Ghana and Cote D’Ivoire (Project Period: April 2017 – December 2020). Commissioned by Participatory Development Associates (PDA).
- June, 2017: **Co-consultant.** Needs Assessment of Poultry Associations for The Ghana Poultry Project. Ghana Poultry Project (GPP), funded by the United States Department of Agriculture (USDA) and implemented by ACDI/VOCA and TechnoServe.

- November, 2019 **Consultant (Agricultural Economist)**. Finalization of the Modules for Curriculum Implementation: Strengthening the capacity of four agricultural colleges in Ghana by CINOP commissioned by EP-NUFFIC, 's-Hertogenbosch the Netherlands
- July, 2020: **Consultant (Agricultural Economist)**. Ghana Fine Flavor Cocoa Project implemented by Optimal Change Partnership (local NGO) in Collaboration with Guittard Chocolate Company, California, USA.
- May, 2021 **Independent Consultant (Agricultural Economist)**. Cost-Benefit Analysis and Preparation of Project Completion Report for the Six(6)-Year Ghana Engaging Local Communities in REDD+ Project funded by African Development Bank.
- May, 2021 **Co-Independent Consultant**. Making Advances to Eliminate Child Labor in More Areas with Sustainable Integrated Efforts (MATE MASIE) funded by Winrock International Institute for Agricultural Development.
- May, 2021 **Co-Principal Investigator**. Education for Sustainable Development in Africa (ESDA) Catalyst Small Grant Project - Review and Strengthening of ESDA Graduate Programmes in Sustainable and Integrated Rural Development (SIRDA) Zone funded by African Development Bank.

GRANTS/AWARDS

1. Travel grant of US\$3,000.00 to attend the 30th International Conference of Agricultural Economists, organized by International Association of Agricultural Economists, from 28th July – 2nd August, 2018 at the Westin Bayshore Hotel, Vancouver, Canada.
2. Travel grant to fully participate in the 2019 AAEE Annual Meeting, Atlanta Marriot Marquis, Atlanta, Georgia, USA, from 21st-23rd July, 2019.
3. Travel grant of US\$1,500.00 to attend the 6th African Conference of Agricultural Economist, Sheraton Abuja Hotel, Abuja, Nigeria, from 23rd – 26th September, 2019.

SCHOLARLY ACTIVITIES, MEMBERSHIP OF PROFESSIONAL BODIES AND OTHER LEADERSHIP

- Reviewer:* Scientific African (February, 2019 to Date).
- Reviewer:* African Journal of Science, Technology, Innovation and Development (April, 2019 to Date).
- Reviewer:* Financial Innovation (May, 2019 to Date).
- Reviewer:* Agriculture and Food Security (December, 2016 to Date).
- Reviewer:* WebPub Journal of Agricultural Research (June, 2013 to Date).
- Reviewer:* Journal of Global Entrepreneurship Research (August, 2014 to Date).
- Reviewer:* Journal of Agricultural Science and Technology (May, 2014 to Date).
- Reviewer:* Agris on-line Papers in Economics and Informatics (May, 2014 to Date)
- Reviewer:* African Educational Research Journal (January, 2019 to Date).
- Reviewer:* Agricultural and Food Science Journal of Ghana (May, 2019).
- Reviewer:* Central Inquiry which is the official academic journal for Central University, Ghana (December, 2016 to Date).
- Reviewer:* 30th International Conference of Agricultural Economists organized by

International Association of Agricultural Economists from 28th July – 2nd August, 2018 at the Westin Bayshore Hotel, Vancouver, Canada.

Reviewer: 6th African Conference of Agricultural Economists organized by African Association of Agricultural Economists from 23rd – 26th September, 2019 at the Sheraton Abuja Hotel, Abuja, Nigeria.

Reviewer: 2020 Agricultural and Applied Economics Association (AAEA) Annual Meeting, which will take place on July 26-28 at the Kansas City Marriott Downtown in Missouri.

Reviewer: International Review of Applied Economics

Reviewer: Ghana Journal of Horticulture

Reviewer: Technology in Society (September, 2020 to Date)

Reviewer: African Journal of Science, Technology, Innovation and Development (September, 2020 to Date)

Reviewer: African Development Review (September, 2020 to Date)

Editorial Board Member: African Journal of Agricultural and Resource Economics (AFJARE), Official Journal of African Association of Agricultural Economists (July, 2020 to Date).

Member: Ghana Association of Agricultural Economists (GAAE) (July, 2017 to Date)

Member: African Association of Agricultural Economists (AAAE) (July, 2016 to Date)

Member: International Association of Agricultural Economists (IAAE) (July, 2016 to Date)

Member: Agricultural and Applied Economics Association (AAEA) (July, 2016 to Date)

Member: University Teachers Association of Ghana (UTAG) (July, 2016 to Date)

Fellow: Africa Research and Impact Network (ARIN) (September, 2020 to date)

Diocesan Youth

Secretary: Catholic Diocese of Sunyani, Ghana, West-Africa (2011 – 2015)

Facilitator: New Integrated Catholic Youth Formation Programme (NICYFOP), Catholic

Diocese of Sunyani, Ghana, West-Africa

Diocesan Assistant

Youth Secretary/

Financial Secretary: Catholic Diocese of Sunyani, Ghana, West-Africa (2009 – 2011)

Junior Grand Knight: Junior Knights and Ladies of Marshall, Our Lady of Fatima Catholic Church,

Wenchi-B/A (2007 – 2010)

Financial Secretary: St. James Old Boys Association, Kwame Nkrumah University of Science and Technology (KNUST) Branch (2003 – 2005)

REFEREED JOURNAL PUBLICATIONS

1. **Wongnaa, C.A** and Seyram, Z.K.A. (2014). Factors influencing polytechnic students' decision to graduate as entrepreneurs. *Journal of Global Entrepreneurship Research*, 2014 2:2.
2. **Wongnaa, C.A** and Ofori, D. (2012). Resource-use Efficiency in Cashew Production in Wenchi Municipality, Ghana. *Agris on-line Papers in Economics and Informatics*. Vol 4. Pp73-80
3. **Wongnaa, C.A.** (2013). Analysis of Factors Affecting the Production of Cashew in Wenchi Municipality, Ghana. *Journal of Agricultural Sciences*, Vol 8, no.1, pp 8-16
4. **Wongnaa, C. A.** and Awunyo-Vitor, D. (2013). Factors Affecting Loan Repayment Performance among Yam Farmers in the Sene District, Ghana. *Agris on-line Papers in Economics and Informatics Journal*, Vol 5 Pp111-122.
5. **Wongnaa, C. A.** and Awunyo-Vitor, D. (2013). Profitability Analysis of Cashew Production in Ghana. *Botswana Journal of Agriculture and Applied Sciences*, Volume 9, Issue 1, pp21-31.
6. Opoku-Mensah, S., Agbekpohnu, H. and **Wongnaa C. A.** (2014). Economic Returns of Gari Processing Enterprises in the Mampong Municipality, Ghana. *International Journal of Agriculture Innovations and Research*, Volume 2, Issue 4.
7. Zu, K. S. A., **Wongnaa, C. A.** and Appiah, F. (2014). Vegetable Handling, Distribution, and Wholesale Profitability in “Abinchi” Night Market, Kumasi-Ghana. *Journal of Postharvest Technology*, 02 (01): 096-106, January’ 2014 www.jpht.info.
8. **Wongnaa C.A.**, Dwomoh, G., Owusu, E.E., Pinkrah, S.B., and Antwi, A. (2014). Customer Service in Rural Banks in Ghana: The Case of Bosomtwe Rural Banks in the Ashanti Region, Ghana. *International Journal of Academic Research in Business and Social Sciences*, Vol. 4, No.
9. **Wongnaa, C.A.**, Opoku-Mensah, S., Ayogyam, A., Asare-Kyire, L., Zu, K.S.A. (2014). Economics of Tomato Marketing in Ashanti Region, Ghana. *Russian Journal of Agricultural and Socio-Economic Sciences*, 2(26).
10. Awunyo-Vitor, D., **Wongnaa, C.A.** and Aidoo, R. (2016). Resource use efficiency among maize farmers in Ghana. *Agriculture & Food Security*, 5(1), p.28.
11. **Wongnaa, C. A.**, Awunyo-Vitor, D., & Bakang, J. E. A. (2018). Factors affecting adoption of Maize production technologies: A study in Ghana. *Journal of Agricultural Sciences-Sri Lanka*, 13(1), 81-99.
12. **Wongnaa, C. A.**, & Awunyo-Vitor, D. (2018). Achieving sustainable development goals on no poverty and zero hunger: Does technical efficiency of Ghana’s maize farmers matter? *Agriculture & Food Security*, 7(1), 71.
13. **Wongnaa, C.A** and Boachie, W.K. (2018). Perception and adoption of competency-based training by academics in Ghana. *International Journal of STEM Education*, 5:52. <https://doi.org/10.1186/s40594-018-0148-x>
14. **Wongnaa, C.A.** and Awunyo-Vitor, D. (2019). Scale efficiency of maize farmers in four agro ecological zones of Ghana: A parametric approach. *Journal of the Saudi Society of Agricultural Sciences*, 18(3):275-287.
15. **Wongnaa, C.A.**, Adams, F., Bannor, R.K., Awunyo-Vitor, D., Mahama, I., Osei, B.A., Owusu-Ansah, Y. and Ackon, A. (2019). Job creation and improved consumer health

- through commercialisation of tiger nut yoghurt: a willingness to pay analysis. *Journal of Global Entrepreneurship Research*, 9(1):4. <https://doi.org/10.1186/s40497-018-0139-x>
16. **Wongnaa**, C. A., Akuriba, M. A., Ebenezer, A., Danquah, K. S., & Ofori, D. A. (2019). Profitability and constraints to urban exotic vegetable production systems in the Kumasi metropolis of Ghana: a recipe for job creation. *Journal of Global Entrepreneurship Research*, 9(1):33.
 17. Adongo, W.A., Collins Kwabena Osei, C.K. and **Wongnaa**, C.A. (2019). Contribution of Non-Timber Forest Products to Rural Household Income in Kassena-Nankana West District of Ghana. *Forest Products Journal*, Vol. 69, No. 3, pp. 217-227.
 18. Bannor, R., Oppong-Kyeremeh, H., Atewene, S. and **Wongnaa**, C.A (2019), "Influence of non-price incentives on the choice of cocoa licensed buying companies by farmers in the Western North of Ghana", *Journal of Agribusiness in Developing and Emerging Economies*, Vol. 9 No. 4, pp. 402-418.
 19. Adams, F., Amankwah, K., **Wongnaa**, C. A., Honny, E. P., Peters, D. K., Asamoah, B. J., & Coffie, B. B. (2019). Financial analysis of small-scale mango chips processing in Ghana. *Cogent Food & Agriculture*, 5(1), 1679701.
 20. **Wongnaa**, C.A., Awunyo-Vitor, D., Mensah A., and Adams, F. (2019). Profit Efficiency Among Maize Farmers and Implications for Poverty Alleviation and Food Security in Ghana. *Scientific African* (In the press), doi: <https://doi.org/10.1016/j.sciaf.2019.e00206>.
 21. Nti, E. K., **Wongnaa**, C. A., Edusah, N. S. E., & Bakang, J. E. A. (2020). Assessment of the sustainability of community-managed water supply services in Ghana. *Environment, Development and Sustainability*, 22(7), 7097-7120.
 22. Bannor, R. K., Kumar, G. A. K., Oppong-Kyeremeh, H., & **Wongnaa**, C. A. (2020). Adoption and Impact of Modern Rice Varieties on Poverty in Eastern India. *Rice Science*, 27(1), 56-66.
 23. **Wongnaa**, C.A. and Babu S. (2020). Building Resilience to Shocks of Climate Change in Ghana's Cocoa Production and its effect on Productivity and Incomes. *Technology in Society*, Vol 62. <https://doi.org/10.1016/j.techsoc.2020.101288>
 24. Mubarak, I., Aidoo, R. and **Wongnaa**, C.A. (2020). Participation in UTZ-RA voluntary cocoa certification scheme and its impact on Smallholder Welfare: Evidence from Ghana. *World Development Perspectives*, Vol 20. <https://doi.org/10.1016/j.wdp.2020.100244>.
 25. Adams, F., **Wongnaa**, C.A. and Coleman, E. (2020), "Profitability and choice of marketing outlets: evidence from Ghana's tomato production", *Journal of Agribusiness in Developing and Emerging Economies*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/JADEE-06-2019-0090>
 26. Al-Zabir, A., **Wongnaa**, C. A., Islam, M. A., & Mozahid, M. N. (2020). Food security status of farming households in Bangladesh: A comparison of recipients and non-receivers of institutional support. *African Journal of Science, Technology, Innovation and Development*, 1-14.
 27. Asodina, F.A., Adams, F., Nimoh, F., Weyori, E.A., **Wongnaa**, C.A., Bakang, J.E.A. (2020). Are non-market benefits of soybean production significant? An extended economic analysis of smallholder soybean farming in Upper West region of northern Ghana. *Agriculture & Food Security*. <https://doi.org/10.1186/s40066-020-00265-7>.

28. Nti, E. K., **Wongnaa**, C. A., Edusah, N. S. E., Bakang, J. E. A., & Kyei, V. B. (2020). Service constraints and willingness to pay in community-managed water supply services in Ghana. *World Journal of Entrepreneurship, Management and Sustainable Development*.
29. Mensah, A., Asiamah, M., **Wongnaa**, C. A., Adams, F., Etuah, S., Gaveh, E., & Appiah, P. (2021). Adoption impact of maize seed technology on farm profitability: evidence from Ghana. *Journal of Agribusiness in Developing and Emerging Economies*.
30. **Wongnaa**, C.A., Nyarko, M., Addison, M. and Awunyo-Vitor, D. (2021). Viability of Artisanal Timber Milling: Cases from Ghana. Accepted for publication in *Journal of Enterprising Communities: People and Places in the Global Economy*.
31. Binpori, R.J., Awunyo-Vitor D. and **Wongnaa**, C.A. (2021). Does contract farming improve rice farmers' food security? Empirical evidence from Ghana. *World Journal of Science, Technology and Sustainable Development*.
32. Asodina, F.A., Adams, F., Nimoh, F., **Wongnaa**, C.A., Aidoo, R. and Kwasi Ohene-Yankyera. (2021). Improving Soya Bean Productivity for Poverty Alleviation and Food Security in Ghana: A Resource Use Efficiency Analysis". *Caraka Tani: Journal of Sustainable Agriculture*.
33. Adams, A., Ohene-Yankyera, K., Aidoo, R. and **Wongnaa**, C.A. (2021). Economic Benefits of Livestock Management in Ghana. Accepted for publication in *Agricultural and Food Economics*.
34. **Wongnaa**, C.A., John-Eudes Andivi Bakang, J.E.A., Asiamah, M.T., Appiah, P. and Asibey, J.K. (2021). Adoption and Compliance with Council for Scientific and Industrial Research Recommended Maize production Practices in Ashanti Region, Ghana. Accepted for publication in *World Journal of Science, Technology and Sustainable Development*.

BOOK CHAPTERS

1. Obirikorang, K. A., **Wongnaa**, C. A., Nkrumah, E. E., & Ansong, M. (2018). Uneven Development: Urban and Industrial Growth and its Environmental Implications for Rural and Urban Communities in Ghana. *Rural-Urban Linkages and Sustainable Development in Africa*, 39.
2. **Wongnaa**, C.A., Ansong, M., Obirikorang, K.A, Nkrumah, E.E. and Arhin, A. (2020). Contribution of Non-Timber Forest Products to Rural and Urban Incomes in Ghana: in *Rural-Urban Linkages and Sustainable Development 1*, 101-118

PAPERS UNDER REVIEW

1. **Wongnaa**, C.A., Adams¹, Ndiadivha, P. T., Abbam-Baiden, B., Boame N.Y. and Gyamfi, S. (2019). Revamping Ghana's Coffee Production: Smallholder Perceptions, Viability and Constraints. Under review at *Thai Journal of Agricultural Science*.
2. Sissoko, M.D.D., Ohene-Yankyera, K., & **Wongnaa**, C.A. (2020). Profitability and Technical Efficiency of Rice Farmers Using Traditional and Improved Milling Machines: Evidence from Mali. Under review at *African Journal of Science, Technology, Innovation and Development*.
3. Asodina, F.A., Adams, F., Nimoh, F., **Wongnaa**, C.A., Aidoo, R. and Kwasi Ohene-Yankyera. (2020). Improving Soya Bean Productivity for Poverty Alleviation and Food Security in Ghana: A Resource Use Efficiency Analysis. Under Review at *Caraka Tani: Journal of Sustainable Agriculture*.

4. Adams, A., Ohene-Yankyera, K., Aidoo, R. and **Wongnaa**, C.A. (2019). Looking Beyond the Market: Estimating the Economic Benefits of Managing Small Ruminants in Two Agro-Ecological Zones of Ghana. Under review at *Agricultural and Food Economics*.
5. Nti, E.K., **Wongnaa**, C.A., Awunyo-Vitor, D and Kyei, V.B. (2020). Towards financial sustainability: Beneficiaries' perception and performance of community water supply services in Ghana. Under review at *Challenges in Sustainability*.
6. Binpori, R.J., Awunyo-Vitor, D. and **Wongnaa**, C.A. (2020). Does contract farming improve rice farmers' food security? Empirical evidence from Ghana. Under review at *World Journal of Science, Technology and Sustainable Development*.
7. Apike, I. A., Osei-Mensah, J., Aidoo, R. and **Wongnaa**, C.A. (2020). Structure of Imported Chicken Market and Willingness of Distributors to Accept Domestically Produced and Processed Chicken. Under review at *Applied Studies in Agribusiness and Commerce*.
8. Addison, M., Acheampong, P.P. and **Wongnaa**, C.A. (2020). Rethinking Equity in Access to Intra-household Agricultural Resources Allocation for Inclusive Development in Ghana. Under review at *European Journal of Development Research*.
9. **Wongnaa**, C.A., Bakang, J.E.A., Asiamah, M. and Appiah, P. (2020). Assessment of Compliance with Recommended Maize Production Practices: Evidence from Ghana" - Under review at *The Journal of Agricultural Education and Extension*.
10. Agbeko, S.K. and **Wongnaa**, C.A. (2020). Church Attendance at Charismatic Churches: A Case Study of Calvary Charismatic Centre Branches in Kumasi, Ghana. Under review at *SAGE Open*.
11. Addison, M., Ohene-Yankyera, K., Acheampong, P.P., **Wongnaa**, C.A. (2020). The role of agricultural technologies in rural income distribution: A case study of rice farmers in Ghana. Under review at *Sustainability*

CONFERENCE/WORKSHOP/SEMINAR PRESENTATIONS

1. **Wongnaa**, C.A. (2011). Review of Ghana's Beekeeping Sector. Speech presented at the first Africa-Wide Training Course and Workshop on Strategic Partnership Networking in Bee Health and Pollination Services for Food Security in Africa held at the Thomas Odhiambo Conference Hall of International Centre for Insect Physiology and Ecology (*Icipe*), Duderuville, Nairobi-Kenya from Monday 10th to Wednesday 19th October, 2011 on the theme "Bee Health and Pollination Services for Food Security in Africa".
2. **Wongnaa**, C.A and Seyram, Z.K.A. (2014). Factors influencing polytechnic students' decision to graduate as entrepreneurs. Paper presented at the 1st International Conference of Entrepreneurship Educators, Researchers and Entrepreneurs in Africa organized by the Institute of Entrepreneurship and Enterprise Development (IEED) of Kumasi Polytechnic from 28th – 30th November, 2011 at the Kumasi Polytechnic and Anita Hotel in Kumasi, Ghana.
3. Awunyo-Vitor D., **Wongnaa** A.C and Aidoo, R. (2016). Resource Use Efficiency among Maize Farmers in Ghana. Paper presented at the 4th Environmental Management Accounting Network (EMAN) Conference at Durban, South Africa 28-30 September, 2016
4. **Wongnaa**, C.A., Obirikorang, K.A., Nkrumah, E.E. and Ansong, M. (2017). Assessment of the contribution of non-timber forest products (NTFPs) to sustainable rural and urban livelihood. Progress Report presented at ESDA's 3rd Consortium & 4th NGR Meetings, Cape Town, South Africa, 15-18 October 2017.

5. **Wongnaa, C.A.,** Obirikorang, K.A., Nkrumah, E.E. and Ansong, M. (2017). Assessment of the contribution of non-timber forest products (NTFPs) to sustainable rural and urban livelihood. Research Results presented at the workshop on the Contribution of Non-Timber Forest Products to Sustainable Rural and Urban Livelihood at KNUST, Kumasi, Ghana, on 19th December, 2017.
6. **Wongnaa, C.A.,** Awunyo-Vitor D. and Mensah, A. (2017). Profit Efficiency of Ghana's Maize Farmers. Paper presented at the 30th International Conference of Agricultural Economists, organized by International Association of Agricultural Economists, from 28th July – 2nd August, 2018 at the Westin Bayshore Hotel, Vancouver, Canada.
7. **Wongnaa, C.A.,** Adams, F., Bannor, R.K., Awunyo-Vitor, D., Mahama, I., Osei, B.A., Owusu-Ansah, Y. and Ackon, A. (2018). Job Creation and Improved Consumer Health through Commercialisation of Tiger Nut Yoghurt: A Willingness to Pay Analysis. Paper presented at the 2nd Conference of Ghana Association of Agricultural Economists, organized by Kwame Nkrumah University of Science and Technology, from 8-11th August, 2018 at the Institute of Distance Learning Conference Centre, KNUST campus, Kumasi, Ghana.
8. **Wongnaa, C.A.,** Mason, N. and Liverpool, L. S. O. (2019). Cotton Contract Farming Participation and its impact on Smallholder Welfare: Evidence from Zambia. Paper presented at the AAEA Annual Meeting, Atlanta Marriot Marquis, Atlanta, Georgia, USA, from 21st-23rd July, 2019.
9. **Wongnaa, C.A.,** Akuriba, M.A., Amisah, E., Danquah, K.S and Danso, A. (2019). Profitability and Constraints to Urban Exotic Vegetable Production Systems in the Kumasi metropolis of Ghana: A Recipe for Job Creation. Contributed Paper Presented at the 6th African Conference of Agricultural Economist, Sheraton Abuja Hotel, Abuja, Nigeria, from 23rd – 26th September, 2019.

OTHER CONFERENCES/WORKSHOP/SEMINARS ATTENDED

1. Writing Winning Proposal organized by Kumasi Polytechnic Management at the Old Rector's Conference Room from 29th -30th November, 2012.
2. Customised Management Development Seminar on the Subject Enterprise Risk Management, The K-Poly Perspective held on September 15-16, 2012 at the Anita Hotel, Ejisu-Ashanti for Deans/Directors, HODs, etc.
3. Writing and Publishing a Journal Article on 5th July, 2011 at the Great Hall, Kumasi Polytechnic, facilitated by Dr. Z.K.M. Batse, Department of Statistics and Computer Studies, Kumasi Polytechnic.
4. Techniques for effective Proposal Writing from 21st-23rd June, 2011 at the Great Hall, Kumasi Polytechnic, facilitated by Dr. Victor K. Agyeman, MGIF, BSc., MPhil., PhD., LLB. CSIR-Forestry Research Institute of Ghana.
5. Participated in the E-Resources, Reference management and 'Turnitin' training workshop for Lecturers in the Under the Building Stronger Universities Initiative Phase two (BSUII) Project, organized by the Prempeh II Library, KNUST, in conjunction with its Danish partners held at the Research Commons Training Room, Prempeh II Library on 27th September, 2016.

6. Participated in an orientation programme for newly appointed Senior Members of KNUST organized by the Human Resource Development Division and the Quality Assurance Unit of the university held at the Great Hall Conference Room from 28th -29th September, 2016.
7. Participated in a Psycho-educational seminar on the theme, “Identifying Students in Distress”, organized by the KNUST Counselling Center (KCC) for Senior Members of the University on Thursday, 23rd February, 2017 at the KNUST Great Hall Conference Room.
8. Participated in a two (2)-day training workshop on the theme “Best Practices in Grant Financial Management and European Union Application Process”, organized by the Building Stronger Universities (BSU) II Project and Office of Grants and Research, KNUST for Researchers, Principal Investigators (PIs), Project Leaders, Project Team Members, Accountants and Project Finance Officers from 29th-30th June, 2017 at the Gardiner Conference Room, Great Hall, KNUST.
9. Participated in a five (5)-day international training workshop on the theme, “Integrated Decision Support System (IDSS)” (Farming Simulator (FarmSIM) option) under the Feed the Future USAID Innovation Laboratory for Small Scale Irrigation which is being implemented in Ethiopia, Tanzania and Ghana, from 24 – 28 July, 2017 at the International Center for Innovative Learning (ICIL), KNUST, Kumasi, Ghana.
10. Attended a seminar on Health Economics Modelling using Simulation Techniques, Within Trial Analysis plus Markov Modelling and Interrupted Time Series Analysis on Friday, 4th August, 2017 at the New Conference Room, Department of Economics, KNUST, Kumasi, Ghana.
11. Participated in a three (3)-day combined workshop on Sustainable Development in Africa and Sustainable Development Goals (SDGs) organized jointly by Bureau of Integrated Rural Development (BIRD), KNUST and United Nations University (UNU), Japan, from 8th-10th August, 2017 at the International Centre for Innovative Learning (ICIL), Mango Road, KNUST, Kumasi, Ghana.
12. Participated in Education for Sustainable Development’s (ESDA’s) 3rd Consortium and 4th Next Generation Researchers (NGR) Meetings, jointly organized by the University of Cape Town, South Africa and the United Nations University (UNU), Japan, from 15th -18th October 2017 at the University of Cape Town, South Africa.
13. Participated in Education for Sustainable Development’s (ESDA’s) Writing Workshop for Next Generation Researchers (NGR), jointly organized by the University of Cape Town, South Africa and the United Nations University (UNU), Japan, from 3rd -9th June, 2018 at the University of Cape Town, South Africa.
14. Participated in the one-day work on estimating large demand systems training using household survey data, organized by the University of Georgia, USA, on 26, September, 2019 at the Bolton White Hotel, Abuja, Nigeria.

WEBINAR PARTICIPATION

1. Rapid Transition to Online Teaching. Organized by CEEMAN – the International Association for Management Development in Dynamic Societies, 31 March 2020
2. *Building Resilience in Food Systems and Agricultural Value Chains: Agricultural Policy Responses to Covid-19 in Africa*, hosted on 18th and 19th May 2020 to cater for the Western and Eastern hemisphere respectively. Second ADI’s G-CoP seminars organized

to provide evidence-based policy guidance to African Development Bank Group's member countries.

3. The future for Agrifood Systems and the Rural Transformation. Organized by Inter-American Development Bank Group (IDB Group), 1300 New York Ave. NW Washington, DC, 20577, USA, July, 15, 2020am EST
4. Specialty Crops Challenges: Crop Insurance, Citrus Greening, Labor, and Water. Agricultural & Applied Economics Association 2020 Annual Meeting Pre-conference Online Workshop Organized by the AAEA Specialty Crops Economics Section Hosted by the Economic Research Service, USDA, Wednesday, July 29, 2020.
5. 2020 Agricultural and Applied Economics Association (AAEA) Annual Meeting (Virtual), August 10-11, 2020.
6. Harnessing the applications of science technology and innovation in the fight against COVID-19: lessons for science policy, organized by Africa Research and Impact Network (ARIN) on 25th September, 2020 at 1400hours-1600hours (EAT).
7. Africa Research and Impact Network (ARIN) International Conference on Africa in the Post-COVID-19 World held on 18th - 20th of November 2020 at 1400-17h00hours (EAT)

WORKSHOP/SEMINARS ORGANIZED

1. Organized a one-day seminar on Rural-Urban Linkage for Sustainable Development and successful utilization of thesis grants for Master of Philosophy in Sustainable and Integrated Rural Development (MPhil. SIRDA) students on 7th November, 2017 at the Bureau of Integrated Rural Development (BIRD), KNUST, Kumasi, Ghana.
2. Organized a one-day workshop on the Contribution of Non-Timber Forest Products to Sustainable Rural and Urban Livelihood on 19th December, 2017 at the International Center for Innovative Learning (ICIL), KNUST, Kumasi, Ghana.

LANGUAGES: English (Excellent) Dagaare (Excellent) Asante Twi (Excellent)

REFEREES

1. Prof. Dadson Awunyo-Vitor, Department of Agricultural Economics, Agribusiness and Extension, Kwame Nkrumah University of Science and Technology. Email: awunyovitor@gmail.com. Tel: 233(0)208152298.
2. Prof. John-Eudes Andivi Bakang, Department of Agricultural Economics, Agribusiness and Extension, Kwame Nkrumah University of Science and Technology. Email: alhajjab@yahoo.com. Tel: 233(0)208168670.
3. Dr. Suresh Babu, Senior Research Fellow, & Head, Capacity Strengthening Program International Food Policy Research Institute (IFPRI) Washington, DC. Email: s.babu@cgiar.org

