

# ALBERT BANUNLE, PhD, MIEnvSc

## 1. PERSONAL DETAILS

### 1(a) PERSONAL DETAILS

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<b>Name:</b> Albert Banunle (PhD)	<b>Postal Address:</b>
<b>Nationality:</b> Ghanaian	Department of Environmental Science
<b>Permanent Residence:</b> Ghana	KNUST, Kumasi.
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### 1(b) Professional and Career Summary

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Environmental scientist and lecturer at Kwame Nkrumah University of Science and Technology (KNUST) with expertise in circular and climate-smart agriculture, organic waste valorisation, environmental impact assessment, and sustainability transition. He holds a PhD and MSc in Environmental Science, an MSc in Environmental Partnership Management, and a BSc in Agriculture. His research advances circular and climate-smart approaches to agriculture and waste management by integrating behavioural change theories with applied science to design inclusive, scalable sustainability solutions, particularly in low- and middle-income countries. Through teaching, research, and international collaborations, he contributes to the development of transformative climate resilience, environmental management, and sustainable policies and practices.

### 1(c) Research Interest Areas

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- ***Waste Management and Bioresource Valorisation:*** Exploring innovative approaches to transform organic and agricultural waste into valuable products that reduce pollution and enhance resource efficiency.
- ***Circular and Climate-Smart Agriculture (CSA):*** Advancing sustainable farming practices that promote resilience, close resource loops, and support food security under changing climates.
- ***Pro-environmental Behaviour:*** Applying behavioural theory to understand and promote sustainable environmental practices among individuals, communities, and institutions.
- ***Environmental Impact Assessment (EIA) and Lifecycle Analysis (LCA):*** Evaluating the environmental, social, and economic implications of projects and technologies to inform evidence-based sustainability decisions.

## 2. EDUCATION

### 2(a). Universities Attended and Qualifications Obtained

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- I. Kwame Nkrumah University of Science and Technology, Kumasi, Ghana |2018-2023|  
*PhD Environmental Science*
- II. University of Aberdeen, Aberdeen (UK) |2020 -2021|  
*M.Sc. Environmental Partnership Management*
- III. Kwame Nkrumah University of Science and Technology, Kumasi (Ghana) |2014 -2017|  
*M.Sc. Environmental Science*
- IV. Kwame Nkrumah University of Science and Technology, Kumasi (Ghana) |2008 -2012|  
*B.Sc. Agriculture* (Major in Agricultural Economics and Farm Management)

### 2(b) Fellowships, Scholarships and Awards/Honours

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- **DANIDA Building Stronger Universities (BSU III) Fellowship (2018–2023)** – Awarded by the Danish Fellowship Centre (DFC) to pursue a PhD in Environmental Science at KNUST.
- **Commonwealth Shared Scholarship (2020–2021)** – Awarded by the UK FCDO and the University of Aberdeen for MSc in Environmental Partnership Management.
- **Scottish Innovative Student Award (SISA III – Innovation Champion)** – awarded by the Scottish Institute for Enterprise (SIE) for excellence in innovation, adaptability, creative problem-solving, and collaboration.

### 2(c) Continuous Career Development Workshops and Seminars

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#### **Industrial training in environmental monitoring/management in mine operations**

*Date:* 15th July –5th August 2025

*Organiser:* AGA (Obuasi Mine) and KNUST OBC

*Focus:* Understanding environmental monitoring and management practices in mining operations

#### **College of Science (KNUST) PhD Supervision Workshop for Senior Members**

*Date:* 13th–15th February 2024

*Organiser:* College of Science, KNUST

*Focus:* Strengthening supervisory competencies and mentorship strategies for doctoral research.

#### **OGR (KNUST) Grant Proposal Writing Retreat**

*Date:* 13th–17th November 2023

*Organiser:* Office of Grants and Research, KNUST

*Focus:* Enhancing grant writing skills and proposal competitiveness for research funding.

## **EMPLOYMENT**

### **3(a). Professional Work Experiences**

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#### **Lecturer, Department of Environmental Science, KNUST | 2023–Present**

- Design and deliver courses, develop curricula, and create teaching materials for undergraduate and postgraduate programmes in environmental science
- Design and conduct academic assessments; serve as internal examiner for MSc and MPhil candidates.
- Secure competitive funding and lead collaborative research that addresses environmental and sustainability challenges.
- Publish research findings in high-impact, peer-reviewed journals.
- Present research at international conferences and engage in professional development activities.
- Provide academic service, mentorship, and stakeholder engagement at the university and national levels.

#### **Assistant Lecturer, Department of Environmental Science, KNUST | 2022–2023**

- Developed and taught undergraduate courses in Environmental Science
- Supervised and mentored undergraduate students to complete research projects.
- Presented research at international conferences and partner universities.
- Strengthened professional expertise through workshops on research and grant writing.
- Fostered productive collaborations with students, colleagues, and project partners.

#### **Knowledge Hub Coordinator, Commonwealth Scholarship Commission, UK | 2020–2021**

- Served as contact person for Commonwealth Scholars conducting research on resilience and crisis response.
- Collaborated with coordinators to deliver engagement content and share academic/professional opportunities.
- Organised monthly workshops to build capacity and foster networking among scholars in the UK.

### 3(b). Research and Consultancy

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#### **Principal Investigator – KNUST Research Fund (KReF) (2025–Present)**

*Optimising Food Waste Composting with Rice Husk-Derived Biochar to Advance Circular Agriculture in Ghana*

- Assessing feedstock suitability and biochar properties for enhanced compost production.
- Conducting controlled composting trials and field experiments to evaluate process efficiency and compost quality.
- Modelling nutrient content and phytotoxicity to establish optimal composting ratios for circular agriculture applications.

#### **Team member – KNUST Research Fund (KReF) (2025–Present)**

*Synergistic Use of Phosphate Fertiliser and Biochar for Gold Mine Soil Reclamation in Ghana*

- To determine the individual and combined effects of phosphate fertiliser and biochar on soil chemical properties.
- To assess the capacity of phosphate fertiliser–biochar combinations to immobilise or reduce the bioavailability of toxic metals associated with gold mine soils.

#### **Field Researcher – DANIDA Building Stronger Universities Programme (2018–2023)**

*Bioresource Management and Climate-Smart Agriculture in the Owabi Catchment*

- Demonstrated the feasibility of composting as a sustainable solution for organic waste and invasive plant management through laboratory and field studies
- Applied life cycle and cost–benefit analyses to determine the economic viability of composting as waste valorisation interventions.
- Produced three peer-reviewed publications as first and corresponding author and delivered an international conference presentation.
- Organised two stakeholder workshops for collaboration and knowledge transfer in biomass conversion technologies as a sustainable livelihood strategy

#### **Expert Consultant, African Union Centre for Counterterrorism (AUCTC), (2024-2024)**

*Nexus Between Natural Resource Governance and Terrorism Financing in Africa.*

- conducted research that discovered how illegal exploitation of natural resources is diverted into terrorism financing in Africa.
- made a presentation with proposed solutions to terrorism financing in Africa through natural resource exploitation and its environmental implications at an expert workshop with AU member states at the AUCTC.
- proposed environmental management and governance solutions for countering the exploitation of natural resources for terrorism financing.

**Research Consultant, United Nations Development Programme (UNDP) and the West Africa Network for Peacebuilding (WANEP) joint project on a survey of citizens' perception of good governance in West Africa. |2022|**

- developed an outline for the research report that was approved by the WANEP Project Team.
- produced the research report, including the data analysis of the field data from the Kobo Collect toolbox.
- produced a PowerPoint presentation of the research findings based on the research report.
- participated in the workshop to validate the findings of the research.

**Researcher, The Commonwealth Secretariat and JET Educational Service |2020-2020|**

*The Impact of COVID-19 on Education Systems in the Commonwealth | June 2020 to July 2020|*

- worked with nine (9) other researchers across different commonwealth countries on the preparedness and resilience of education systems to COVID19 and future pandemics.
- led the design of the project methodology and data collection strategies.
- provided an analysis of Ghana's Government policy and response strategy to Covid19 with a focus on building resilience in the education system against future pandemics.
- contributed to the compilation of the final report of the research project and manuscript.

**International Research Consultant, AU Counter-terrorism Centre (AUTC) |2019-2020|**

*The impact of Foreign Terrorist Fighters (FTFs) on terrorism in the Sahel-Sahara Region|*

- conducted a study on the impact of Foreign Terrorist Fighters (FTFs) on terrorism in the Sahel-Sahara Region using social network analysis.
- visited and conducted surveys with key informants in Mali and Niger to collect primary information on the movement and activities of FTFs in the Sahel.
- prepared a study report presented to the AU.
- produced two policy briefs based on the study findings.

**Field Supervisor, World Food Programme |2018-2018|**

*Asset Creation for Resilience*

- participated in and contributed to the success of a 3-day workshop for the validation of questionnaires and training of enumerators for fieldwork.
- led community entry and stakeholder engagement for field research work in selected communities.
- successfully led a team of 4 teaching and research assistants for a two-week data collection exercise in the Upper West Region of Ghana, managing the budget, resolving conflicts, and ensuring quality work.
- produced a comprehensive report on the evaluation of the asset created by WFP for poverty evaluation with recommendations and a roadmap for the way forward.

## **SERVICE TO COMMUNITY/NATION**

### **4(a) Nation**

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#### **Guest Speaker, Circularize for Change, 2025**

- I developed key points and review questions for a talk on ending plastic waste pollution in Ghana.
- I delivered a talk and responded to questions on how pro-environmental behaviour can be promoted to address plastic waste challenges in Ghana.

#### **Sub-team Member, Technical Committee for Biofuel Development (GoG), (2024)**

- I led the team to identify environmental impact indicators for biofuel development and commercialisation.
- I led the team through research on Greenhouse Gas Life Cycle Assessment (GHG LCA) for different scenarios of biofuel commercial development in the country.
- I contributed to presentations and reports that led to the development of a National Biofuel Action Plan to guide the Ministry of Energy and other agencies from 2025 to 2035.
- I delivered a talk and responded to questions on how pro-environmental behaviour can be promoted to address plastic waste challenges in Ghana.

#### **Convener, Youth in Sustainable Development and Pro-Environmental Behaviour workshop (2024)**

- I developed a proposal, secured funding, and recruited and trained facilitators and volunteers for the workshop.
- I planned and organised a workshop to create awareness about sustainable development and promote the adoption of behavioural solutions to address environmental challenges
- I developed materials for a presentation and video documentary on the concept of sustainable development principles, challenges and solutions.

#### **Debate Judge, World Environment Day (2024 and 2025)**

- I planned and served on a panel of judges for an inter-school debate on World Environment Day on desertification and land restoration.
- I interacted with participants (students) and gave a key points talk that summarised and highlighted emerging solutions to growing desertification and deforestation in Ghana.

## 4(b) University

### i. Teaching

#### *Courses Taught (undergraduate level)*

Course	Credit hours	22/23	23/24	24/25	25/26
ENVS153: Biogeography	2	✓	✓	✓	✓
ENVS 253: Agro-Ecology	2	✓	✓	✓	✓
ENVS 351: Solid Waste Management	3	✓	✓	✓	
ENVS 354: Project Analysis & Evaluation	3	✓	✓	✓	✓
ENVS:366 Climate Change: Impacts & Adaptations	2		✓	✓	✓
ENVS:368 Statistics for Environmental Scientists	2		✓	✓	✓
ENVS 451: Environmental Management I	3	✓	✓	✓	✓
ENVS 452: Environmental Management II	3	✓			
ENVS 252: Environmental Pollution	3			✓	
<b>TOTAL</b>		<b>16</b>	<b>17</b>	<b>20</b>	<b>14</b>

### ii. Thesis Supervision

#### *Programme: Environmental Science (Postgraduate)*

Name of student	Degree	Topic	Status
Ebenezer Adum-Gyamfi	MPhil	Effects of rice husk biochar-compost on lettuce yield, soil quality and greenhouse gas emissions in Ghana	Ongoing
Rita Ohemeng	MSc	<i>Developing An Integrated Solid Waste Management System for Managing Solid Waste in Developing Countries: A Case Study of Accra, Ghana</i>	Completed
Theophilus Tabir	MSc	<i>Socioeconomic drivers and health risk of waste scavenging in the Sunyani Municipality</i>	Completed
Anthony Nana Osei-Yaw	MSC	<i>The Effectiveness of Artificial Regeneration in Restoring Degraded Forests and Biodiversity Areas in the Bui Conservation Area</i>	On-going
Bismark Obeng Bosompem	MSc	<i>Quality And Environmental Implications of Organic Fertilisers Used by Vegetable Farmers Around the Knust Enclave</i>	On-going
Kweku Kyei Antwi	MSC	<i>Using Geographic Information Systems (GIS) To Map Solar Power Potential in the Greater Accra Region</i>	On-going
Margaret Korantemaa Gyimah	MSc	<i>An Assessment of The Handling and Management of Waste Oil by Local Mechanics in Ghana</i>	On-going
Samuel Smennah	MSC	<i>Occurrence of Microplastics in Fish from The Coastal Waters of Ghana and Their Potential Human Health Implications</i>	On-going
Erica Neequaye	MSc	<i>Assessing Carbon Sequestration Gains from Forest Restoration: A Comparative Analysis of Natural Regeneration and Restoration-Enhanced Forest Growth</i>	On-going

### iii. Thesis Examination/Assessment

Name of student	Degree	Topic	Role
Cornelius Komla YEBOAH	MPhil	Impact Of Agricultural Activities On Fishponds: A Case Study Of A Fishpond At Appiadu, Ashanti Region	Internal Examiner
OSEI AMPONG, Richard	MPhil	Comparison Of the Effectiveness and Efficiency of The Activities of Formal and Informal Waste Collectors In The Suame Municipal In The Ashanti Region, Ghana	Internal Examiner
ANGELLA TWUMASI-ANKRA		Perceived Effects Of Climate Change And Variability On The Livelihoods Of Communities Fringing The Jimira Forest Reserve, Ghana	Internal Examiner
RICHEL BROOHM	MSc	Effect Of Climate Variability On Yields Of Selected Cash Crops In The Shai-Osudoku District, Ghana	Internal Examiner
FRANCISCA ESSUMAN-QUANSAH	MSc	Assessment of Particulate Matter and Gas Concentrations at Selected Receptor Locations Around a Construction Site in Kumasi - Komfo Anokye Teaching Hospital	Internal Examiner
APPIAH-DANQUAH, Daniel	MSc	The Management of The Major Components Of Solid Waste In Senior High Schools In The Cape Coast Metropolis.	Internal Examiner
ABROKWAH, Jennifer	MSc	Edge Effects On Tree Community Structure And Soil Properties	Internal Examiner
	MSc	In The Bobiri Forests Reserve, Ghana	
DJIRACKOR, Deladem	MSc	Abattoir Waste Management In Accra.	Internal Examiner
ADIBASE, George Atanga	MSc	Impacts Of Solid Waste Management in Healthcare Facilities And Their Environmental Challenges In West Mamprusi Municipality	Internal Examiner
ANAMAN, Emmanuel	MSc	Assessing The Occupational Hazards and Safety Practices Among Clinical Staff At Suntreso Government Hospital	Internal Examiner
SULEMANA, Mohammed	MSc	Effectiveness Of Environmental Impact Assessment for Developmental Projects in Central Region, Ghana	Internal Examiner
DAHAMANI, Sylvester Badizemna	MSc	Smallholder Soybean Farmers' Perceptions and Adaptation Practices To Climate Variability In The Gushegu Municipality, Ghana	Internal Examiner

*MSC Industrial Finance and Investment Programme*

Name of student	Degree	Topic	Status
KORANTENG, Emmanuel	MSc	Valuing Return on Corporate Social Responsibility Investment Among Selected Banks in Ghana	Completed
KARIKARI, Abigail	MSc	Effect Of Government Securities on Banking Sector Profitability in Ghana	Completed
OFORI, Darlington Elorm Kwame	MSc	Corporate Governance Structures and Financial Performance of Quoted and Unquoted Firms in Ghana.	Completed
ATISU, Jerome Christopher	MSc	Board Gender Diversity and Financial Performance of Listed and Unlisted Firms in Ghana.	Completed

**iv. Academic Tutorship**

*Academic tutorship list (BSC Environmental Science (OBC), 2023-2026 batch)*

**v. Committee**

Member, Committee for the Development of a PhD Sustainable Food System programme  
Member, Admission Interview Panel, PhD Sustainable Food System programme

**vi. Others**

- KNUST Research Fund (KREF) Reviewer (Cycle 8)
- KNUST Research Fund (KREF) Reviewer (Cycle 9)
- GRASAG Research Fund (GReF) Reviewer (2024)
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**5. MEMBERSHIP OF PROFESSIONAL ASSOCIATION/BODIES**

- i. Full Member, Institution of Environmental Science (IES), UK, 2025-Present
- ii. Member, International Solid Waste Association (ISWA), 2024-2025
- iii. Ghana Science Association (GSA), 2024-Present
- iv. International Development Economics Associates |2022-Present|
- v. Circular Economy Club (CEC) |2023-Present|

## 6. RESEARCH OUTPUT AND CONTRIBUTION TO KNOWLEDGE

### 6(a). List Of Publications

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#### i. *Published articles.*

1. Boateng, N. K., Fei-Baffoe, B., Sackey, L. N., & **Banunle, A.** (2025). Using Bahia and Bermuda Grass to Remediate Municipal Solid Waste Leachate Under Hydroponic Condition. *Environmental Monitoring and Assessment*, 197(7), 1-18. <https://doi.org/10.1007/s10661-025-14218-9>
2. **Banunle, A.**, & Kpenekuu, F. (2025). Socioecological Factors and Practical Challenges to the Adoption of Circular Agriculture and Agroecological Techniques By Climate-Vulnerable Farmers. *Circular Economy and Sustainability*, 1-25. <https://doi.org/10.1007/s43615-025-00630-3>
3. Kpenekuu, F., Antwi-Agyei, P., Nimoh, F., Guodaar, L., **Banunle, A.**, Baffour, F. A., Atta-Aidoo, J. and Agyekum, T.P (2025). A Cost-Benefit Analysis of Climate-Smart Agriculture Interventions in Semi-Arid Ghana. *Regional Sustainability*. 6(1), 10019. <https://doi.org/10.1016/j.regsus.2025.100196>
4. **Banunle, A.**, Agbeshie, A. A., Odumanye, M. Q., Adjei, R., & Bosomtwi, A. (2025). Interactive effect of anthropogenic activities and seasonal changes on the biophysicochemical properties and heavy metal status of tropical surface water resources. *Scientific African*, 27, e02495. <https://doi.org/10.1016/j.sciaf.2024.e02495>
5. Ampong, R. O., Miezah, K., **Banunle, A.**, Amuah, E. E. Y., & Amoah, E. G. (2024). Comparative analysis of the effectiveness and efficiency of formal and informal waste collectors in urban waste management system. *Helijon*, 10(20). <https://doi.org/10.1016/j.helijon.2024.e39017>
6. **Banunle, A.** (2024). Determinants of pro-environmental behaviour of urban youth in Ghana. *Environment, Development and Sustainability*, 1-19.
7. Amankwa, J., Damnyag, L., & **Banunle, A.** (2024). Determinants of forest law compliances among inhabitants of local communities surrounding tropical wildlife and forest reserve in Ghana. *Journal of Cleaner Production*, 140964.
8. **Banunle, A.**, Fei-Baffoe, B., Miezah, K., Ewusi-Mensah, N., Jørgensen, U., Aidoo, R., ... & Abaidoo, R. C. (2023). Economic Viability Assessment of Small-Scale Biomass Composting Project Within a Developing Country Context. *Circular Economy and Sustainability*, 1-21.
9. **Banunle, A.**, Fei-Baffoe, B., Miezah, K., Ewusi-Mensah, N., Jørgensen, U., Aidoo, R., ... & Abaidoo, R. C. (2023). Valorisation of Biowaste and Aquatic Invasive Plants Through Compost Production for Agricultural Use. *Waste and Biomass Valorization*, 1-13.
10. **Banunle, A.**, Fei-Baffoe, B. Miezah, K. Ewusi-Mensah, N., Jørgensen, U., Aidoo, R. Amoah, A., Abaidoo, R. C. and Agbeshie, A. A. (2021). Utilisation Potentials of Invasive Plants in the Owabi Dam in the Ashanti Region of Ghana. *BioResources* 16(2), 3075-3095.
11. Agbeshie, A. A., Adjei, R., Anokye, J., & **Banunle, A.** (2020). Municipal Waste Dumpsite: Impact on soil properties and heavy metal concentrations, Sunyani, Ghana. *Scientific African*, e00390.
12. Otchere, K. G., **Banunle, A.**, Yankyera, O. K and Bediako, E (2020). Effect of RTIMP's Commercialisation of Cassava on Household Food Security in the

Cape Coast Metropolis in the Central Region of Ghana. Agricultural And Food Science Journal Of Ghana (AFSJG).

13. **Banunle, A.** and Apau, R. (2019). Environmental and Natural Resources Consequences of Armed Conflict and Violent Extremism in Sahelian Countries in Africa. African Journal for the Prevention and Combating of Terrorism. Vol 8 (1); 73-92.
14. **Banunle A**, Fei-Baffoe B, Otchere KG (2018). Determination of the Physico-Chemical Properties and Heavy Metal Status of the Tano River along the Catchment of the Ahafo Mine in the Brong-Ahafo Region of Ghana. *J Environ Anal Toxicol* 8: 574.
15. Osei, C. K., Otchere, K. G., **Banunle, A.**, & Dontwi, I. K. (2017). Trend analysis of Students' Admission, Enrolment and Completion in KNUST Distance Learning Postgraduate Programmes. *Journal of Education and Human Development*, 6(1), 157-164.
16. Osei, C. K., Dontwi, I. K., Otchere, K. G., & **Singye, A. A.** (2015). Curriculum relevance and graduate career: a tracer study of CEMBA, CEMPA and Industrial Mathematics graduates. *Journal of Science and Technology (Ghana)*, 35(2), 89-99.

## ii. Book Chapter

1. Gaspard-Richards, D., **Banunle, A.**, Kuttoh, N., Mndalasini. P., Osuolale, O., Sebape, K., Shah, P., Tomlinson, J., Walker, C. and Wambwa, D. (2021) "Preparedness and Resilience of Education Systems to Address Multiple Threats: Pandemics, Hurricanes, Drought, Food Insecurity" in *The Impact of COVID-19 on Education Systems in the Commonwealth*. The Commonwealth Secretariat, London: UK.
2. Agbeshie, A. A., Adjei, I., Adjei, R., Anokye, J., & **Banunle, A.**, Novor, S. and Khalid, A. A. (2020). Impact of Untreated Liquid Waste Disposal on Water Quality in a Tropical Region, In *International Research in Environment, Geography and Earth Science, Volume 3*: Print ISBN: 978-93-90206-35-3, eBook ISBN: 978-93-90206-38-4.

## 6(b) Conferences/Seminars And Workshops Attended

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### i. Conference participated in

1. Building Stronger Universities (BSU III) International Conference on Climate Change Resilience, Adaptation and Sustainable Rural Transformation (Kumasi, Ghana), 4th and 5th October, 2022.
2. Building Stronger Universities (BSU III) Conference on Commercialisation of Research Output, KNUST-Kumasi, 2019.

### ii. Papers Delivered at Conferences/Seminars/Workshops

1. **Banunle, A.**, Fei-Baffoe, B. Miezah, K. Ewusi-Mensah, N., Jørgensen, U., Aidoo, R. Amoah, A., Abaidoo, R. C. and Agbeshie, A. A. (2021). *Compositional Analysis and Evaluation of Bioresources Potential of Aquatic Invasive Plants and Biowaste*. Presented at BSU III International Conference on Climate Change Resilience, Adaptation and Sustainable Rural Transformation (Kumasi, Ghana), 4th and 5th October, 2022.

2. **Banunle, A.** (2021). *Harnessing Bioresources For Agricultural Productivity Improvement In Ghana*. Lunch Seminar, Aarhus University (Foulum campus, Denmark), 26 January 2023.

## 7. SKILLS

### 7(a). Key Demonstrable Professional Skills

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- Teaching and Research
- Quantitative and Qualitative Data analysis
- Grant proposal writing
- Report Writing
- Preparation of policy brief
- Project & Partnership Management
- Leadership, interpersonal and communication skills

### 7(b). IT Skills And Statistical Analysis Tools

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- Proficiency in MS Office
- R-Studio for descriptive and inferential analysis
- Stata for econometric and time/panel series analysis
- Jamovi and Statgraphics for data analysis
- Minitab for descriptive and inferential analysis
- SPSS for survey data analysis
- AMOS GRAPHICS for structural equation modelling (SEM)
- ArcGIS for mapping

## 8. REFERENCES

### 1. Prof. B. Fei-Baffoe

Relationship: PhD and MSc Supervisor,  
Address: Department of Environmental Science, KNUST Kumasi, Ghana.  
Email: [bfei-baffoe.cos@knust.edu.gh](mailto:bfei-baffoe.cos@knust.edu.gh) / [feibaffoe@yahoo.com](mailto:feibaffoe@yahoo.com)  
Tel: +233248219835

### 2. Dr Kodwo Miezah

Relationship: PhD co-supervisor  
Address: Department of Environmental Science, KNUST Kumasi, Ghana.  
Email: [miezahkodwo@knust.edu.gh](mailto:miezahkodwo@knust.edu.gh) / [komieza@yahoo.com](mailto:komieza@yahoo.com)  
Tel: +233203299419

### 3. Dr Nicholas Spedding

Relationship: MSc Partnership Project Supervisor  
Address: School of Geoscience, University of Aberdeen (UK).  
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