

## CURRICULUM VITAE

### FELIX KPENEKUU (PhD)

Department of Environmental Science  
Kwame Nkrumah University of Science and Technology, Kumasi, Ghana  
E-mail: maaliri516819@gmail.com  
Tel: +233(0)242129188

### PERSONAL SUMMARY

Felix Kpenekuu is an interdisciplinary climate change scientist. My research interest focuses on multi-scale approaches for assessing drought risks and adaptations to climate change in smallholder farming systems and climate-health. Specifically, my works revolve in field-based participatory studies that seek to develop a wider understanding of how climate change and variability affect livelihood security and household wellbeing from the perspective of developing countries. Felix mostly employs a mixed method approach in his research and possesses a very strong quantitative and qualitative analyses and modelling skills. Currently, Felix is a part time academic researcher in Kwame Nkrumah University of Science and Technology and also a part-time lecturer at Akenten Appiah-Menkah University of Skill Training and Entrepreneurial Development. Felix has been reviewing papers for high-ranking Journals on environmental and climate issues relating to climate-related risks and adaptation, agricultural systems and food security and policies.

### EDUCATION

---

2019-2024	PhD: Climate-Smart Agricultural Intervention Adoption in Vulnerable Agroecological Zones of Ghana, Environmental Science, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
2023	Qualified Teacher Status (QTS), Department of Education, England
2015-2017	MSc Environmental Science, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
2007-2011	BEd, University of Education, Winneba, Ghana.
2001-2004	Teacher Certificate, University of Cape Coast, Institute of Education, Ghana.

### EMPLOYMENT

---

2025-Date	Co-Consultant, Korea Environmental Industry and Innovation on Country Climate and Environment Trend Reports (Kenya, Rwanda And Egypt)
2025	<b>Research Assistant</b> , Adaptation Plan for Strengthening Investment in Gender-Responsive Climate Adaptions (SIGRA) in Nanumba South District, Northern Region, Ghana
2025	<b>Research Assistant</b> , Climate Change Risk and Vulnerability Assessment (CCRVA) in Offinso Municipality Assembly, Ghana
2024-2025	<b>Research Assistant</b> , Strengthening Investment in Gender-Responsive Climate Adaptions (SIGRA) in Nanumba South District, Northern Region, Ghana
2015-2016	<b>Research Assistant</b> , Livelihood dynamics in the Owabi catchment, Kumasi, Ghana. Founded by DANIDA under its Building Stronger Universities Phase
II 2019– 2025	<b>Part-time Tutor</b> , Royal Ann College of Health, Manhyia, Ghana.
2018– 2022	<b>Part-time Tutor</b> , University of Development Studies, Manhyia, Ghana.

### OTHER ACADEMIC SERVICE AND RESPONSIBILITY

---

2024	<b>Reviewer</b> for peer review journals
------	--

## RESEARCH INTERESTS

---

- Climate Change Risks and Adaptation; Agricultural System's Resilience; Food Security; Climate-smart Agricultural including Indigenous Knowledge Systems and Climate-related Health issues.

## SELECTED PUBLICATIONS

---

1. 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>
2. **Felix Kpenekuu**, Philip Antwi-Agyei, Fred Nimoh, Andrew Dougill, Albert Banunle, Jonathan Ata-Aidoo, Frank Baffour-Ata, Thomas Peprah Agyeikum, Godfred Addai, Lawrence Guodaar (2025). Cost and benefit analysis of Climate-Smart Agriculture interventions in the dryland farming systems of northern Ghana. *Regional Sustainability* (2025) 6(1). <https://doi.org/10.1016/j.regus.2025.100196>
3. Philip Antwi-Agyei, Frank Baffour-Ata, Joseph Alhassan, **Felix Kpenekuu**, Andrew J. Dougill, (2025). Understanding the Barriers and Knowledge Gaps to climate-Smart Agriculture and Climate Information Services: A multi-Stakeholder Analysis of Smallholder Farmers' Uptake in Ghana. *World Development Sustainability*, Volume 6, <https://doi.org/10.1016/j.wds.2025.100206>.
4. Godfred Addai, Lawrence Guodaar, Romanus Dogkubong Dinye, James Boafo, Sanju Purohit, **Kpenekuu Felix**, Obed Asare, Vincent Aduah Abi (2025): Advancing agricultural diversification within rural regions: The dynamic role of interregional rural-rural migration. *Habitat International Volume 156* (103273), <https://doi.org/10.1016/j.habitatint.2024.103273>
5. **Kpenekuu F.**, Antwi-Agyei P., Nimoh F., Osei M. A., Guodaar L. (2024): Understanding drought risk management in vulnerable communities in dryland farming systems: Evidence from northwest Ghana, *IJDRR*, 100(2024) 104186, <https://doi.org/10.1016/j.ijdr.2023.104186>.
6. Godfred Addai, Lawrence Guodaar, Owusu Amponsah, Dalia M. Ibrahiem, and **Kpenekuu Felix**, Philip Antwi-Agyei (2024): Role of social capital in agricultural diversification: Implications for sustainable development in rural regions, *Sustainable Development*, <https://doi.org/10.1002/sd.2938>
7. Guodaar L., Asante F., Eshun G., Abass K., Afriyie K., Appiah D. O., Gyasi R., Atampugre G., Addai P., **Kpenekuu F.** (2020): How do climate change adaptation strategies result in unintended maladaptive outcomes? Perspectives of tomato farmers. *International Journal of Vegetable Science* 2020, Vol. 26, No. 1, 15–31, <https://doi.org/10.1080/19315260.2019.1573393>.
8. Antwi-Agyei P., **Kpenekuu F.**, Hogarth J.N., Obiri-Danso K., Abaidoo R.C., Jeppesen E., Andersen M.N. (2019): Substantial land use and land cover changes in the Owabi Reservoir catchment, Ghana: implications for livelihoods and management", *Geosciences*, 9(7), 286. [10.3390/geosciences9070286](https://doi.org/10.3390/geosciences9070286).

**Kpenekuu F.**, Antwi-Agyei P., Nimoh F., Guodaar L. (2024): Adoption of Climate-Smart Agricultural Interventions among differentiated female smallholder farmers in Dryland Farming Ghana, *Climatic Changes Journal* (Under revision)

9. Thomas Peprah Agekum, Elvis Bangkewaa Kuunifaa, **Felix Kpenekuu**, Fidelis Bayor, Margaret Ama Odoom, Philip Antwi-Agyei (2024): Effect of climate change and variability on Non-Communicable Diseases Infection in Northwest Ghana. *Global Health Action Journal* (Under Review).

## **CONFERENCE PRESENTATIONS**

---

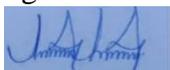
- **Felix Kpenekuu**, Philip Antwi-Agyei, Fred Nimoh, Andrew Dougill, Albert Banunle, Jonathan Ata-Aidoo, Frank Baffour-Ata, Thomas Peprah Agyeikum, Godfred Addai, Lawrence Guodaar. Cost and benefit analysis of Climate-Smart Agriculture interventions in the dryland farming systems of northern Ghana. Presented at Ghana Science Association **Conference 33<sup>rd</sup>** Biennial Conference on Combating climate change: the role of science, technology and innovation (UG, Ghana), 5<sup>th</sup> and 7<sup>th</sup> September 2023.
- **Kpenekuu, F.**, Antwi-Agyei, P., Nimoh, F., Osei, A. M., Guodaar, L. Understanding drought risk management in vulnerable communities in dryland farming systems: evidence from northwest Ghana. Presented at KNUST Scientific Research Conference on Innovation and Entrepreneurship for a Sustainable Future (KNUST, Ghana), 29<sup>th</sup> and 31<sup>st</sup> May 2023.

## **REFEREES**

- Prof. Philip Antwi-Agyei  
Director, Office of Research and Grants and Dept. of Environmental Science,  
KNUST  
Tel: 0505255247  
E-mail: [philiantwi@yahoo.com](mailto:philiantwi@yahoo.com)
- Prof. Fred Nimoh  
Dean, Dept. of Agricultural Economics and Agribusiness,  
KNUST  
Tel: 0244111754  
E-mail: [frediemoh@yahoo.com](mailto:frediemoh@yahoo.com)

**Declaration:** I declare that the information contained in this Curriculum Vitae (CV) is accurate. I accept responsibility for any misleading information contained in the CV.

Signed



Date: 12th January, 2026