

## **Lawrence Guodaar, PhD**

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### **SUMMARY**

Lawrence Guodaar is an environmental geographer who has a Doctor of Philosophy (PhD) from The University of Adelaide, Australia. Lawrence research focuses on understanding how agricultural systems can develop resilience to mitigate climate change risks and improve food security in indigenous societies. He has considerable number of co-authored publications in high-ranking journals including Climatic Change, Applied Geography, Geoforum and Environmental Development, with the former being discussed and featured in the prestigious Nature Climate Change. Lawrence mostly employs a mixed-method approach in his research and possesses a very strong quantitative analysis skills. Currently, Lawrence is a full time academic and researcher at the department of Geography and Rural Development at the Kwame Nkrumah University of Science and Technology, Kumasi, Ghana where he teaches undergraduate and postgraduate courses including Climatology, Climate Change Science, Biogeography, Sustainable Development and Research Methods. He is a research consultant to Out of the Box Executive Pty Ltd in Melbourne, where he analyses emerging climate risks and opportunities of agricultural companies in Australia. Lawrence is an internationally recognized peer reviewer for several high-ranking journals on environmental issues relating to climate change adaptation, agricultural systems, food security and indigenous knowledge applications.

### **EDUCATION**

- Doctor of Philosophy, The University of Adelaide, Australia, 2021
- Master of Philosophy, Kwame Nkrumah University of Science and Technology, Ghana, 2015
- Bachelor of Education, University of Cape Coast, Ghana, 2011

### **PROFESSIONAL EXPERIENCE**

- Lecturer, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, December 2021- present.
- Doctoral Research Scientist, School of Social Sciences, The University of Adelaide, Australia, August 2018 – June, 2021.
- Research Consultant, Out of the Box Executive, Melbourne, Australia, June 2021– present.
- Sessional Tutor, University of Adelaide College, Australia, February, 2019 – present
- Sessional Lecturer, School of Social Sciences, The University of Adelaide, Australia, June 2021 – September, 2021.
- Lecturer, Spiritan University College, Ghana, July, 2015 – August, 2018.

## RESEARCH INTERESTS

- Climate Change Risks and Adaptation; Agricultural System's Resilience; Food Security; Indigenous Knowledge Systems

## SELECTED PUBLICATIONS

### *Journal Articles*

- Appiah, D.O. & **Guodaar, L.** (2022). Smallholder farmers' perceptions and knowledge on climate variability and perceived effects in vulnerable rural communities in the Offinso Municipality, Ghana. *Environmental Development*, 42 (100691), <https://doi.org/10.1016/j.envdev.2021.100691>
- **Guodaar, L.** Bardsley, D.K. & Suh J. (2021). Indigenous adaptation to climate change risks in northern Ghana. *Climatic Change*, 166(1), pp.1-20. <https://doi.org/10.1007/s10584-021-03128-7>
- **Guodaar, L.**, Bardsley, D.K. & Suh J. (2021). Integrating local perceptions with scientific evidence to understand climate change variability in northern Ghana: A mixed-methods approach. *Applied Geography*, 130(102440). <https://doi.org/10.1016/j.apgeog.2021.102440>
- **Guodaar, L.** & Bardsley, D.K. (2021). Problematizing Indigeneity in sub-Saharan Africa: Implications for natural resource management. *Geoforum*, 127, pp.222-233 <https://doi.org/10.1016/j.geoforum.2021.11.009>
- Abass, K., Buor, D., Afriyie, K., Dumedah, G., Segbefia, A.Y., **Guodaar, L.**, Garsonu, E.K., Adu-Gyamfi, S., Forkuor, D., Ofosu, A., Mohammed, A. & Gyasi, R.M. (2020). Urban sprawl and green space depletion: Implications for flood incidence in Kumasi, Ghana. *International Journal of Disaster Risk Reduction*, 51(101915). <https://doi.org/10.1016/j.ijdr.2020.101915>
- Asante, F., **Guodaar, L.** & Arimiyaw, S. (2021). Climate change and variability awareness and livelihood adaptive strategies among smallholder farmers in semi-arid northern Ghana. *Environmental Development*, 100629, <https://doi.org/10.1016/j.envdev.2021.100629>
- **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*, 26(1), pp.15-31. <https://doi.org/10.1080/19315260.2019.1573393>
- Ayumah, R., Asante, F., **Guodaar, L.** & Eshun, G. (2020). How do climate and nonclimatic variables influence the production of agricultural staple crops in vulnerable rural communities in the Bawku Municipality of Northern Ghana? *Advances in Agriculture*, 2020(6484019), pp.1-13. <https://doi.org/10.1155/2020/6484019>
- **Guodaar, L.** & Asante, F. (2018). Using a factor analysis to understand climate adaptation barriers impeding smallholder tomato farmers in the Offinso North District, Ghana, *Cogent Food and Agriculture*, 4(1), pp.1-16. <https://doi.org/10.1080/23311932.2018.1504507>

- **Guodaar, L.,** Beni, A. & Benebere, P. (2017). Using a mixed-method approach to explore the spatiality of adaptation practices of tomato farmers to climate variability in the Offinso North District, Ghana, *Cogent Social Sciences*, 3(1), pp.1-13  
<https://doi.org/10.1080/23311886.2016.1273747>

### **Research Highlight**

- **Guodaar, L.** In Findlay (2021). Indigenous Knowledge. *Nature Climate Change*. 11(559).  
<https://doi.org/10.1038/s41558-021-01093-8>

### **Conference Presentations**

- Boafo, J., Yeboah, T., **Guodaar, L.,** Yamoah, S. & Nyantakyi-Frimpong, H. “Understanding non-economic loss and damage due to climate change in Ghana. A Paper Presented at the Climate Change and Agrarian Justice Conference, 26-29 September, 2022 organized by the Journal of Peasant Studies, Transnational Institute, Collective of Agrarian Scholar-Activists of the Global South, Institute for Poverty, Land and Agrarian Studies (Virtual)
- **Guodaar, L.** “Climate Change and Food Security in northern Ghana: A Theoretical Framework”. A Paper Presented at Postgraduate Conference, July, 2019, University of Adelaide, Australia.
- **Guodaar, L.,** Asante, F., Eshun, G. & Beni, A. “Effects of Climate Variability on Tomato Production in the Offinso North District, Ghana” A Paper Presented at the 2<sup>nd</sup> International Conference on Poverty Management, September 2016, Spiritan University College, Ejisu, Kumasi, Ghana.

### **SCHOLARSHIP AND RESEARCH GRANT**

- Adelaide Scholarship International, The University of Adelaide, August, 2018 – 2021.
- Charles and Frank Fenner Research Grant, The University of Adelaide, 2019.

### **INTERNATIONAL COMMUNITY SERVICES**

Serves as an international reviewer for the following high-ranking international journals:

- Climate and Development
- Climatic Change
- Climate Services
- Environmental Challenges
- Environmental Science and Policy
- Human Ecology
- Journal of Environmental Management
- Urban Forestry and Urban Greening
- Land Use Policy
- Ambio- A Journal of Environment and Society

## UNIVERSITY COMMUNITY SERVICES

- **Assistant Coordinator:** Research, Policy and Development Unit, KNUST, January 2022 –date
- **Member:** Research, Policy and Development Committee, KNUST, January 2022 –date
- **Member:** Facility, Sanitation and Food Court Committee, KNUST, February 2022 –date
- **Assistant ICT Representative:** KNUST, January 2022 –date
- **Assistant Convener:** Department Postgraduate Seminars, KNUST, January 2022 –date
- **Internal Examiner:** KNUST, August 2022 –date
- **Moderator:** Colleges of Education and Social Education Research Journal Multidisciplinary Research Conference, 2-3<sup>rd</sup> June, 2022.

## PROFESSIONAL ASSOCIATION

- Ag Institute Australia (Australian Institute of Agricultural Science and Technology)
- Environment Institute of Australia and New Zealand
- Institute of Australian Geographers

## REFEREES

- Douglas K. Bardsley (PhD)  
Associate Professor  
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**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.