

Profile

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4. BRIEF PROFILE

John M. Kusimi is currently an Associate Professor of Physical Geography in the Department of Geography and Resource Development at the University of Ghana. His specialty is geomorphology but also researches on environmental and natural resources management. His research has been mainly on Ghana and span over two decades. He is a product of the University of Ghana where he did his undergraduate and graduate studies in Geography and Resource Development. He also holds an MSc in Environmental Engineering and Sustainable Infrastructure from the Royal Institute of Technology, Stockholm.

He is a fellow of the African Center for Advanced Studies, University of Ghana and the Merian Institute for Advanced Studies in Africa. Kusimi was a visiting fellow of Canadian Commonwealth to Simon Frazer University, Canada, TRECCAFRICA Staff Mobility Scholar to Institute of Resources Assessment in the University of Dar es Salaam, Tanzania among others. Kusimi is also a member of several professional bodies; National Scientific Member (Representative of Ghana) of the International Association of Geomorphologists (IAG) and the President of Ghana Association of Geomorphologists (GAG).

5. EDUCATIONAL BACKGROUND

- Course in Statistics in Applied Climatology, University of Reading
- PhD in Geography and Resource Development, University of Ghana
- MSc in Environmental Engineering & Sustainable Infrastructure, Royal Institute of Technology, Stockholm
- MPhil in Geography & Resource Development, University of Ghana

- BA in Geography & Resource Development, University of Ghana

6. RESEARCH AREAS

- Examining the Impact of Sea-Level Rise, Urban Flooding, and Coastal Erosion on Settlement and Livelihoods in Côte d'Ivoire, Ghana, and Nigeria.
- Monitoring urban floods hazards in informal settlements in Accra
- Impacts and Sustainability in artisanal small-scale mining
- Socio-economic and environmental impacts of riverine and urban floods
- Climate change and river basin water resources management
- Climate change and adaptation studies in coastal landscapes and Intra-Africa Mobility Studies

7. RESEARCH PROJECTS

Ongoing research

- **2025 -2029:** Co-PI - Resilience-Building for Education and Climate Learning, Adaptation and Innovation in Mitigation (RECLAIM), Funded by European Union.
- **2025 -2027:** PI - Understanding challenges of mangrove forest conservation for enhanced resilience to coastal erosion and flooding – Ghana. **Africa Climate Collaboration Project, Funded by Mastercard Foundation, University of Ghana.**
- **2025 -2027:** Co-PI - Sustainable management of mining resources in West Africa: perceptions and dynamics of artisanal gold mining communities in Ghana. **Funded by Institut de Recherche pour le Développement (IRD), France.**
- **2023 – 2026:** Co-researcher - Examining the Impact of Sea-Level Rise, Urban Flooding, and Coastal Erosion on Settlement and Livelihoods in Côte d'Ivoire, Ghana, and Nigeria. **Funded by Harvard Research, Harvard University.**

Past research

- **July – Dec 2024:** Collaborator & Country Lead - Allocating vital things via Internet of Things: real-time rapid needs assessment for disaster relief allocation in Sub-Saharan Africa; **Funded by the Dame Julia Higgins Postdoc Collaborative Research Fund, Imperial College – London.**
- **Aug – Dec 2024:** Co-convenor/Country Lead - Sustainability in West Africa's Gold Mining Sector; **Funded by the Merian Institute for Advanced Studies in Africa (MIASA), University of Ghana.**
- **Jan – Jul 2022:** Co-researcher - Using Photovoice in Artisanal and Small-Scale Goldmining Communities in southern Ghana; **Funded by Research England, University of York.**
- **2019 – 2020:** Co-investigator - Managing small-scale mining: Assessing the potential for a more environmentally-sustainable and socially-inclusive small-scale gold mining industry in Ghana, **Funded by Global challenges Research Fund, University of York.**

- June – July, 2018: Co-investigator- **Flood hazard management in informal settlements in Ghana, Funded by Building Global Partnerships for Global Challenges, University of Bristol**

8. MEMBERSHIP OF PROFESSIONAL SOCIETIES/ASSOCIATIONS

- National Scientific Member (Representative of Ghana) of the International Association of Geomorphologists (IAG).
- Member and President of Ghana Association of Geomorphologists (GAG)
- Member of the University of Ghana Mining Research Group
- Fellow of the International Institute for Advanced Studies (IIAS), University of Ghana
- Member of After Shock Research Network, University of East Anglia (UEA) – Norwich, UK.
- Member of Ghana Geographical Association (GGA)
- Member of Community Surface Dynamics Modelling System (CSDMS) Terrestrial and Coastal Working Groups
- Member of International Society for Photogrammetry & Remote Sensing Commission (ISPRS) Working Group VIII/2 – Hazards, Disasters & Public Health.
- Member of Canadian Coalition for Global Health Research (CCGHR)

9. PUBLICATIONS

1. Akyeampong, E. K., **Kusimi, J. M.**, & Paalbery, R. (2025). Fishers on the Gulf of Guinea: Climate, and the income diversification imperative, The Salata Institute for Climate and Sustainability, Harvard University. <https://salatainstitute.harvard.edu/fishers-on-the-gulf-of-guinea-climate-and-the-income-diversification-imperative/>
2. **Kusimi, J. M.**, & Akyeampong, E. K. (2025). Citizens' Perspectives on Coastal Erosion and Inundation Along the Gulf of Guinea. In S. C. Pal., U. Chatterjee., A. Saha., & D. Ruidas, (Eds.), *Climate Change: Conflict and Resilience in the Age of Anthropocene* (pp.89-114). Advances in Global Change Research, vol 80. Springer, Cham. https://doi.org/10.1007/978-3-031-85359-3_4
3. Otoo, D. A., & **Kusimi, J.M.** (2023). Shoreline change analysis of the coastline of Teshie in Accra, Ghana. *Journal of Science and Technology*, 41(2), 16 – 29.
4. Asiedu, E., **Kusimi, J. M.**, Pinto, E. N., Semabiah, C., & Attua, E. M. (2023). Studying Bankline Migration of the Lower Pra Basin using Remote Sensing and GIS. *Ghana Journal of Geography*, 15(2), 88-109.
5. Justice, C., & **Kusimi, J. M.** (2023). Urban Sprawl and Landscape Transition in Awutu Senya East Municipal Assembly. In *Urban Commons, Future Smart Cities and Sustainability* (pp. 225-247). Cham: Springer International Publishing.
6. Peters, M.K., & **Kusimi, J.M.** (2023). Changes in wetland and other landscape elements of the Keta Municipal area of Ghana. *Journal of Coastal Conservation*, 27(1), 1.

7. Yiran, G. A. B., Atubiga, J. A., **Kusimi, J. M.**, Kwang, C., & Owusu, A. B. (2022). Adaptation to perennial flooding and food insecurity in the Sudan Savannah Agroecological Zone of Ghana. *Environmental Research*, 214, 114037. <https://doi.org/10.1016/j.envres.2022.114037>
8. **Kusimi, J. M.**, & Kusimi, B. A. (2021). Hazards of the Densu River Delta in Accra – Ghana. *Natural Hazards*, 107, 831-852.
9. **Kusimi, J. M.**, Kusimi, B. A., & Amisigo, B. A. (2021). Evaluation of sediment yield predicting models of Ghana. *Journal of Geographical Research*, 04(01), 37-47.
10. Kusimi, B. A., Donkor, A. K., Ayivor, J. S., Kyeremeh, K., & **Kusimi, J. M.** (2020). Lifecycle of pottery processes and production in Mpraeso – Ghana. *de arte*, 55(3), 70-94.
11. Adjei-Mensah, K., & **Kusimi, J. M.** (2020). Dwindling water supply and its socio-economic impact in Sekyere Kumawu District in Ashanti Region of Ghana: public opinion on the role of climate change. *Geojournal*, 85, 1355-1372.
12. Asiedu, E., & **Kusimi, J. M.** (2020). Impacts of flooding and riverbank erosion on the environment and socio-economic activities in the Lower Pra River Basin. *Ghana Social Science Journal*, 17(2), 19-42.
13. **Kusimi, J. M.**, & Yeboah, E. (2019). Flood hazards at Alajo: Causes, impacts and adaptations. *International Journal of Research and Innovation in Social Science*, 3(8), 268-278.
14. Dinko, D. H., Yaro, J., & **Kusimi, J.** (2019). Political ecology and contours of vulnerability to water insecurity in semiarid North-Eastern. Ghana. *Journal of Asian and African Studies*, 54(2), 282–299.
15. **Kusimi, J. M.** (2018). Bank erosion and other channel processes of a tropical forest river basin in Ghana. *Ghana Social Science Journal*, 15(2), 31-56.
16. Dika, J. L., **Kusimi, J. M.**, & Gyekye, K. A. (2018). The coastal environment of Elmina in Ghana - Appraising the causes and effects of coastal pollution. *Annals of Geographical Studies*, 1(1), 103-113.
17. Dabie, P. K., Attua, E. M., **Kusimi, J. M.** (2018). Urban sprawl, agricultural land use and food security in Shai Osudoku District, Ghana. *Researchjournal's Journal of Geography*, 5(1), 2349-5367.
18. **Kusimi, J. M.** (2017). The contribution of bank and surface sediments to fluvial sediment transport of the Pra River. *West African Journal of Applied Ecology*, 25(1), 69-85.
19. **Kusimi, J. M.**, Yiran, G. A. B., Attua, E. M. (2015). Soil erosion and sediment yield modelling in the Pra River Basin of Ghana using the Revised Universal Soil Loss Equation (RUSLE). *Ghana Journal of Geography*, 7(2), 38-57.
20. **Kusimi, J. M.** (2015). Characterizing land disturbance in Atewa Range Forest Reserve and buffer zone. *Land use Policy*, 49, 471-482.
21. McNamara, J., **Kusimi, J. M.**, Rowcliffe, J. M., Cowlshaw, G., Brenyah, A., & Milner-Gulland, E. J. (2015). Long-term spatio-temporal changes in a West African bushmeat trade system. *Conservation Biology*, 29(5), 1446-145.
22. **Kusimi, J. M.**, Amisigo, B. A., & Banoeng-Yakubo, B. K. (2014). Sediment yield of a forest river basin in Ghana. *Catena*, 123, 225-235.

23. Kusimi, B. A., **Kusimi, J. M.**, & Yiran, G. B. (2013). Socio-economic and environmental impacts of mining within the catchment of mining companies at Tarkwa. *Ghana Social Science Journal*, 10(1 & 2), 25-52.
24. **Kusimi, J. M.**, & Awere-Gyekye, K. (2013). Explanations to the evolution of landscapes in Geomorphology. In G. Owusu., P. W. K. Yankson., S. Agyei-Mensah & E. M. Attua (Eds.), *Selected Readings in Geography: Essays in Commemoration of the 65th Anniversary of the University of Ghana* (pp.230-247). Ghana: Woeli Publishing Services.
25. Awere-Gyekye, K., **Kusimi, J. M.**, & Yiran, G. A. B. (2013). Geomorphological processes and landforms of the coastal environment. In G. Owusu, P. W. K. Yankson, S. Agyei-Mensah, & E. M. Attua (Eds.), *Selected Readings in Geography: Essays in Commemoration of the 65th Anniversary of the University of Ghana* (pp.248-264). Woeli Publishing Services: Ghana.
26. **Kusimi, J. M.**, & Dika, J. L. (2012). Sea erosion at Ada Foah: Assessment of impacts and proposed mitigation measures. *Natural Hazards*, 64(2), 983-997.
27. **Kusimi, J. M.**, & Kusimi, B. A. (2012). The hydrochemistry of water resources in selected mining communities in Tarkwa. *Journal of Geochemical Exploration*, 112, 252-261.
28. **Kusimi, J. M.**, & Appati, J. W. (2012). Bushfires in the Krachi District: The socio-economic and environmental implications. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XXXIX-B8, 39-44.
29. **Kusimi, J. M.**, & Yiran, G. B. (2011). Application of local knowledge in land degradation assessment in the Bawku East Municipality. *Ghana Journal of Geography*, 3, 88-125.
30. Yiran, G. B., **Kusimi, J. M.**, & Kufogbe, S. K. (2011). A synthesis of remote sensing and local knowledge approaches in land degradation assessment in Bawku East District, Ghana. *International Journal of Applied Earth Observation and Geo-information*, 14, 204 – 213.
31. **Kusimi, J. M.** (2008). Analysis of sedimentation rates in the Densu River channel: The result of erosion and anthropogenic activities in the Densu Basin. *West African Journal of Applied Ecology*, 14, 1-14.
32. **Kusimi, J. M.** (2008). Assessing land use and land cover change in the Wassa West District of Ghana using remote sensing. *Geojournal*, 71, 249-259.
33. **Kusimi, J. M.** (2008). Stream processes and dynamics in the morphology of the Densu River channel in Ghana. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*. VXXXVII(Part B8), 1177-1182.
34. **Kusimi, J. M.**, Fobil, J., Atuguba, R., Erawoc, I., & Oduro, F. (2006). The conflicts in Northern Ghana: A mirror of answers to Sub-Regional stability and security questions. *Asteriskos Journal of International and Peace Studies*, 1/2, 209-228.