Prof. Samuel Nii Ardey Codjoe

Curriculum Vitae

Name	**Codjoe, S.N.A.**
Citations	**3463**
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As of	**2026-11-07**

Research Projects and Grants

Climate and Health Science and Policy Consortium for West Africa (Principal investigator; 2026–2031; funded by Wellcome). With Kwame Nkrumah University of Science and Technology; Cheikh Anta Diop University, Dakar, Senegal; University of Oxford, UK; Climate and Development Knowledge Network; and Abantu for Development.

University of Ghana Africa Climate Collaborative (Co-investigator; 2024–2032; funded by Mastercard Foundation). With Makerere University, Uganda; University of Cape Town, South Africa; and University of Cambridge, UK.

Immobility in a Changing Climate (ITHACA) (Principal investigator; 2023–2026; funded by Belmont Forum). With Lund University Centre for Sustainability Science (LUCSUS); Instituto de Pesquisa Ambiental da Amazonia (IPAM), Brazil; Centre for Research on Governance and Development (CPGD), Mozambique; and Climate Analytics, USA.

Evaluating Health Impacts of Climate Adaptation Strategies (Principal investigator; 2019–2022; funded by Wellcome Trust). With University of Exeter, UK; and Maynooth University, Ireland.

Reducing the Impact of Extreme Heat to Improve Well-being in Cities (REFIT) (Principal investigator; 2019–2021; funded by British Academy). With Loughborough University, UK; and University for Development Studies, Ghana.

Empowering women and transforming gender relations in the Volta delta, Ghana (Principal investigator; 2019–2020; funded by Climate Development Knowledge Network)

Linking Climate Change, Habitability and Social Tipping Points: Scenarios for Climate Migration (Principal investigator; 2019–2024; funded by European Union). With University of Liege, Belgium; University of Vienna, Austria; University of Exeter, UK; Lund University, Sweden; University of Neuchatel, Switzerland; Institute of Research Development, France; and 4 other partners.

Transition to Sustainability: Migration, Transformation and Sustainability (Principal investigator; 2018–2021; funded by Swedish International Development Agency – International Social Science Council – Belmont Forum-NORFACE). With University of Exeter, UK; Lund University, Sweden; Clark University, USA; University of Liege, Belgium; Eduardo Mondlane University, Mozambique; and University of Maastricht, The Netherlands.

Building Research Capacity for Sustainable Water and Food Security in Drylands of Sub-Saharan Africa (BRECcIA) (Principal investigator; 2017–2021; funded by Global Challenges Research Fund). With Southampton University, UK; International Institute of Environment and Development, UK; Water Net Trust; Technical University of Kenya, Kenya; Kenyatta University, Kenya; University of Malawi, Malawi; and University of Nairobi, Kenya.

Vulnerability to Extreme Weather Events in Cities: Implications for Infrastructure and Livelihoods (VEWEC) (Principal investigator; 2017–2019; funded by British Academy). With Loughborough University, UK; and University for Development Studies, Ghana.

Climate Change Integrated Flood Management: Using ICT to deploy flood early warning systems to mitigate

disaster (Co-investigator; 2016–2017; funded by Making All Voices Count (MAVC) Program)

Integrated Climate Smart Flood Management for Accra-Ghana (Principal investigator; 2016–2019; funded by International Development Research Centre)

Statistical Capacity Building Project (Co-investigator; 2016–2017; funded by African Development Bank)

Green Economy Learning Assessment in Ghana (Co-investigator; 2015–2015; funded by The United Nations Institute for Training and Research (UNITAR))

Women, Climate Change and Food Security in Ghana (Principal investigator; 2015–2017; funded by University of Ghana Research Fund: Large Multi-disciplinary Grant Category)

Deltas, Vulnerability and Climate Change: Migration and Adaptation (DECCMA) (Principal investigator; 2014–2018; funded by International Development Research Centre (IDRC): Collaborative Adaptation Research Initiative in Africa and Asia (CARIAA) Program). With University of Southampton, UK; Bangladesh University of Engineering and Technology, Bangladesh; and Jadavpur University, India.

Climate Change Risk Communication Framework for Coastal Urban Development Policy (Principal investigator; 2012–2013; funded by Climate and Development Knowledge Network (CDKN), Department for International Development (DFID), UK). With University of Calabar, Nigeria; and Environmental Protection Agency, Ghana.

African Adaptation Research Centers (AARC) Initiative, Climate Change Adaptation Research and Training Capacity for Development. Climate Change and Water Project (Principal investigator; 2011–2014; funded by International Development Research Centre (IDRC)). With University of Ibadan, Nigeria.

Climate Change and Human Health in Accra, Ghana. Urban Vulnerabilities Project (Principal investigator; 2009–2012; funded by International Development Research Centre (IDRC): Climate Change Adaptation in Africa (CCAA))

Population Training and Research Capacity for Development (PopTRCD) (Co-investigator; 2008–2011; funded by EDULINK Secretariat of the African, Caribbean and Pacific Group of States). With University of Southampton.

Sexual and Reproductive Health Implications of Street Vending in Ghana (Principal investigator; 2008–2010; funded by AIRES-SUD, French Ministry of Foreign Affairs and European Cooperation)

Advancing Capacity to Support Climate Change Adaptation (ACCCA). Food Security and Adaptation to Climate Change in the Afram Plains of Ghana (ACCCA) (Principal investigator; 2007–2008; funded by United Nations Institute for Training and Research (UNITAR) and START International). With Crops Research Institute, Ghana; and Environmental Protection Agency.

Climate Change Collective Learning and Observatory Network in Ghana (CC LONG Project) (Principal investigator; 2006–2009; funded by United States Agency for International Development (USAID)). With Penn State University, USA; and Environmental Protection Agency, Ghana.

Sustaining Agricultural and Forest land uses in the Afram Plains of Ghana (Principal investigator; 2005–2007; funded by Council for the Development of Social Science Research in Africa (CODESRIA) Grant for National Working Groups)

Journal Articles

1. Beauchamp-Davies, C., Amankwaa, E. F., Roberts, B. M., Wilby, R. L., Codjoe, S. N. A., Kasei, R., & Gough, K. V. (2026). Forecasting indoor air temperatures in tropical hospitals to improve patient health and preparedness

for extreme heat. Building and Environment, 295, 114418. https://doi.org/10.1016/j.buildenv.2026.114418

2. Christian, A. K., Codjoe, S. N. A., Larbi, R. T., & Dovie, D. B. K. (2026). Household flood vulnerability and temporary relocation in resourcescarce urban Accra. Discover Environment, 4(1), 89. https://doi.org/10.1007/s44274-026-00575-w

3. Frimpong, J. A., Codjoe, S. N. A., Abu, M., Ayisi-Addo, A. K., & Bayari, E. E. (2026). The association between WASH, menstrual hygiene management, attendance and learning outcomes among girls in Ghana. Discover Education, 5(1). https://doi.org/10.1007/s44217-026-01733-1

4. Gough, K., Abdullah, K., Roberts, B., Amankwaa, E., Codjoe, S., Gyimah, R., Kasei, R., Mensah, P., Lomas, K., Manu, F., Spentzou, E., & Wilby, R. (2025). A mixed-methods approach to researching extreme heat: Insights from urban Ghana. Area, 57(4), e70032. https://doi.org/10.1111/area.70032

5. Boas, I., Sterly, H., Farbotko, C., Hulme, M., Benveniste, H., Schewel, K. D., Bettini, G., Borderon, M., Hoffmann, R., van der Geest, K., Durand-Delacre, D., Selby, J., Wrathall, D. J., Baldwin, A., Benítez Cortés, A., Bukari, K. N., Bunchuay-Peth, S., Capisani, S., Codjoe, S. N. A., … Zickgraf, C. (2025). Climate-induced redistribution of people is not inevitable. Environmental Research Letters, 20(10), 101001. https://doi.org/10.1088/1748-9326/adfdfd

6. Redicker, S., Franco Gavonel, M., Adger, W. N., Safra De Campos, R., Abu, M., Boly, S., Codjoe, S. N. A., Etana, D., Gurmu, E., Nicolle, H., & Owuor, J. (2025). Gender dimensions of adaptive capacity and adaptation responses to climate shocks in rural households: Ghana, Mali, Kenya, and Ethiopia. Environmental Research Letters, 20(9), 094017. https://doi.org/10.1088/1748-9326/adf23b

7. Sterly, H., Borderon, M., Sakdapolrak, P., Adger, N., Ayandale, A., Bah, A., Blocher, J., Blondin, S., Boly, S., Brochier, T., Brüning, L., S., B.-P., D., O., Safra de Campos, R., Codjoe, S., Debeve, F., Detges, A., Franco-Gavonel, M., C., H., … Zickgraf, C. (2025). Habitability for a connected, unequal and changing world. Global Environmental Change, 90, 102953. https://doi.org/10.1016/j.gloenvcha.2024.102953

8. Amoako Johnson, F., Jayson-Quashigah, P., Abu, M., Hornby, D., Hill, C., Appeaning Addo, K., Nyarko, B., Codjoe, S., Addoquaye Tagoe, C., Hutton, C., & Padmadas, S. (2025). Mapping socio-environmentally vulnerable hotspots in the Volta Delta of Ghana. PLoS One, 20(5), e0322453. https://doi.org/10.1371/journal.pone.0322453

9. Atiglo, D. Y., Abu, M., Tagoe, C. A., Badasu, D. M., & Codjoe, S. N. A. (2024). Internal migration and access to health insurance in Ghana: A gendered perspective. Ghana Journal of Geography, 16(2), 1–10. https://doi.org/10.4314/gjg.v16i2.1

10. Abu, M., Codjoe, S. N. A., De Campos, R. S., Adger, W. N., Gavonel, M. F., Fransen, S., Jolivet, D., Agyei-Asabere, C., Fábos, A. H., & Zickgraf, C. (2024). Micro-scale transformations in sustainability practices: Insights from new migrant populations in growing urban settlements. Global Environmental Change, 84, 102790. https://doi.org/10.1016/j.gloenvcha.2023.102790

11. Fry, C., Zickgraf, C., Boyd, E., Jolivet, D., Siddiqui, T., Fransen, S., Franco Gavonel, M., Adger, N., Fábos, A., Connaughton, M., Abu, M., Codjoe, S., & Safra de Campos, R. (2024). Policy insights on the migration–sustainability nexus for urban governance. Global Sustainability, 7, e51, 1–5. https://doi.org/10.1017/sus.2024.45

12. Abu, M., Heath, S. C., Adger, W. N., Codjoe, S. N. A., Butler, C., & Quinn, T. (2024). Social consequences of planned relocation in response to sea level rise: Impacts on anxiety, wellbeing, and perceived safety. Scientific Reports, 14(1), 3461. https://doi.org/10.1038/s41598-024-53277-9

13. Jolivet, D., Fransen, S., Allen, C., Boyd, E., Adger, W. N., Carr, E. R., Fábos, A., Abu, M., Codjoe, S. N. A., Gavonel, M. F., Gemenne, F., Rocky, M. H., Lantz, J., Maculule, D., de Campos, R. S., Siddiqui, T., & Zickgraf, C. (2023). COVID-19 responses restricted abilities and aspirations for mobility and migration: Insights from diverse cities in four continents. Humanities and Social Sciences Communications, 10(1). https://doi.org/10.1057/s41599-023-01721-y

14. Szaboova, L., Adger, W. N., de Campos, R. S., Maharjan, A., Sakdapolrak, P., Sterly, H., Conway, D., Codjoe, S. N. A., & Abu, M. (2023). Evaluating migration as successful adaptation to climate change: Trade-offs in well-being, equity, and sustainability. One Earth, 6(6), 620–631. https://doi.org/10.1016/j.oneear.2023.05.009

15. Quinn, T., Heath, S., Adger, W. N., Abu, M., Butler, C., Codjoe, S. N. A., Horvath, C., Martinez-Juarez, P., Morrissey, K., Murphy, C., & Smith, R. (2023). Health and wellbeing implications of adaptation to flood risk. Ambio, 52(5), 952–962. https://doi.org/10.1007/s13280-023-01834-3

16. Aniah, P., Bawakyillenuo, S., Codjoe, S., & Dzanku, F. (2023). Land use and land cover change detection and prediction based on CA-Markov chain in the savannah ecological zone of Ghana. Environmental Challenges, 10, 100664. https://doi.org/10.1016/j.envc.2022.100664

17. Afrifa-Anane, G. F., Badasu, D. M., Codjoe, S. N. A., & Anarfi, J. K. (2022). Barriers and facilitators of weight management: Perspectives of the urban poor in Accra, Ghana. PLOS ONE, 17(8), e0272274. https://doi.org/10.1371/journal.pone.0272274

18. Abu, M., Atiglo, D. Y., Addoquaye Tagoe, C., & SN, C. (2022). Drivers of migration intentions in the Volta Delta: Investigating the effects of climate-related hazards and adaptation strategies. Frontiers in Climate, 4, 975650. https://doi.org/10.3389/fclim.2022.975650

19. Dovie, D. B. K., Miyittah, M. K., Dodor, D. E., Dzodzomenyo, M., Christian, A. K., Tete-Larbi, R., Codjoe, S. N. A., & Bawah, A. A. (2022). Earth system's gatekeeping of "One Health" approach to manage climate-sensitive infectious diseases. GeoHealth, 6, e2021GH000543. https://doi.org/10.1029/2021GH000543

20. Agyekum, M. W., Codjoe, S. N. A., Dake, F. A. A., & Abu, M. (2022). Enablers and inhibitors of exclusive breastfeeding: Perspectives from mothers and health workers in Accra, Ghana. International Breastfeeding Journal, 17(1), 21. https://doi.org/10.1186/s13006-022-00462-z

21. F, K.-A., SNA, C., & DM, B. (2022). Exploring positive experiences of primary and secondary caregivers of older persons in resource-limited urban settings in Accra, Ghana. PLoS ONE, 17(4), e0266269. https://doi.org/10.1371/journal.pone.0266269

22. Joyal-Desmarais, K., Stojanovic, J., Kennedy, E. B., Enticott, J. C., Boucher, V. G., Vo, H., Košir, U., Lavoie, K. L., Bacon, S. L., Team, I. S., Vally, Z., Granana, N., Losada, A. V., Boyle, J., Shawon, S. R., Dawadi, S., Teede, H., Kautzky-Willer, A., Dash, A., … Nethan, S. (2022). How well do covariates perform when adjusting for sampling bias in online COVID-19 research? Insights from multiverse analyses. European Journal of Epidemiology, 37(12), 1233–1250. https://doi.org/10.1007/s10654-022-00932-y

23. Agyekum, M. W., Codjoe, S. N. A., Dake, F. A. A., & Abu, M. (2022). Is Infant birth weight and mothers perceived birth size associated with the practice of exclusive breastfeeding in Ghana? PLOS ONE, 17(5), e0267179. https://doi.org/10.1371/journal.pone.0267179

24. Weyant, C. L., Amoah, A. B., Bittner, A., Pedit, J., Codjoe, S. N. A., & Jagger, P. (2022). Occupational Exposure and Health in the Informal Sector: Fish Smoking in Coastal Ghana. Environmental Health Perspectives, 130(1). https://doi.org/10.1289/ehp9873

25. Jabik, B. B., Bawakyillenuo, S., & Codjoe, S. N. A. (2022). Perceived effects of climate change on local

knowledge of small-scale farmers in the Garu-Tempane District of Ghana. The International Journal of Climate Change: Impacts and Responses, 15(1), 85–102. https://doi.org/10.18848/1835-7156/CGP/v15i01/85-102

26. Atiglo, D. Y., Christian, A. K., Okyere, M. A., & Codjoe, S. N. A. (2022). Rural out-migration from Ghana's development zones and household food security. Migration and Development, 11(3), 469–483. https://doi.org/10.1080/21632324.2020.1797453

27. Atiglo, D. Y., Abu, M., Jayson-Quashigah, P. N., Addo, K. A., & Codjoe, S. N. A. (2022). Sociodemographic and geophysical determinants of household vulnerability to coastal hazards in the Volta Delta, Ghana. International Journal of Disaster Risk Reduction, 78, 103146. https://doi.org/10.1016/j.ijdrr.2022.103146

28. Ayamga, J., Pabi, O., Amisigo, B. A., FosuMensah, B. Y., & Codjoe, S. N. A. (2021). Annual and intraannual climate variability and change of the Volta Delta, Ghana. Environmental Monitoring and Assessment, 193, 233.

29. Antwi-Agyei, P., Wiafe, E. A., Amanor, K., Baffour-Ata, F., & Codjoe, S. N. A. (2021). Determinants of choice of climate change adaptation practices by smallholder pineapple farmers in the semi-deciduous forest zone of Ghana. Environmental and Sustainability Indicators, 12, 100140. https://doi.org/10.1016/j.indic.2021.100140

30. Christian, A. K., Dovie, B. D. D., Akpalu, W., & Codjoe, S. N. A. (2021). Households' socio-demographic characteristics perceived and underestimated vulnerability to floods and related risk reduction in Ghana. Urban Climate, 35, 100759. https://doi.org/10.1016/j.uclim.2020.100759

31. Wilby, R., Kasei, R., Gough, K., Amankwaa, E., Abarike, M., Anderson, N., Codjoe, S., Griffiths, P., Kaba, C., Abdullah, K., Kayaga, S., Matthews, T., Mensah, P., Murphy, C., & Yankson, P. (2021). Monitoring and moderating extreme indoor temperatures in low-income urban communities. Environmental Research Letters, 16, 024033. https://doi.org/10.1088/1748-9326/abdbf2

32. Adger, W. N., de Campos, R. S., Codjoe, S. N. A., Siddiqui, T., Hazra, S., Das, S., Adams, H., Gavonel, M. F., Mortreux, C., & Abu, M. (2021). Perceived environmental risks and insecurity reduce future migration intentions in hazardous migration source areas. One Earth, 4(1), 146–157. https://doi.org/10.1016/j.oneear.2020.12.009

33. Gavonel, M. F., Adger, W. N., de Campos, R. S., Boyd, E., Carr, E. R., Fábos, A., Fransen, S., Jolivet, D., Zickgraf, C., Codjoe, S. N. A., Abu, M., & Siddiqui, T. (2021). The migration-sustainability paradox: Transformations in mobile worlds. Current Opinion in Environmental Sustainability, 49, 98–109.

34. Tanimonure, V. A., Naziri, D., Codjoe, S. N. A., & Ayanwale, A. B. (2021). Underutilised indigenous vegetables for household dietary diversity in southwest Nigeria. Agriculture, 11(11), 1064. https://doi.org/10.3390/agriculture11111064

35. Szaboova, L., Safra de Campos, R., Adger, W. N., Abu, M., Codjoe, S. N. A., Gavonel, M. F., Das, S., Siddiqui, T., Rocky, M. H., & Hazra, S. (2021). Urban sustainability and the subjective well-being of migrants: The role of risks, place attachment, and aspirations. Population, Space and Place, 28(1). https://doi.org/10.1002/psp.2505

36. S, K., E, A., K, G., R, W., M, A., SNA, C., R, K., C, N., P, Y., P, M., K, A., & P, G. (2020). Cities and extreme weather events: Impact of flooding and extreme heat on water and electricity services in Ghana. Environment and Urbanization. https://doi.org/10.1177/0956247820952030

37. Codjoe, S., Gough, K., Wilby, R., Kasei, R., Yankson, P., Amankwaa, E., Abarike, M., Atiglo, D., Kayaga, S., Mensah, P., Nabilse, C., & Griffiths, P. (2020). Impact of extreme weather conditions on healthcare provision in urban Ghana. Social Science and Medicine, 258, 113072. https://doi.org/10.1016/j.socscimed.2020.113072

38. Dovie, D. B., Dzodzomenyo, M., Dodor, D. E., Amoah, A. B., Twerefou, D. K., Codjoe, S. N. A., & Kasei, R. A.

(2020). Multi-vector approach to cities' transition to low-carbon emission developments. Sustainability, 12, 5382.

39. Codjoe, S. N. A., & Atiglo, D. Y. (2020). The implications of extreme weather events for attaining the Sustainable Development Goals in Sub-Saharan Africa. Frontiers in Climate, 2, 592658. https://doi.org/10.3389/fclim.2020.592658

40. Kyei-Arthur, F., & Codjoe, S. (2020). "Caring for the elderly is very difficult": Challenges and coping strategies of caregivers in urban poor Accra, Ghana. Clinical Nursing Research, 30(5), 1–8. https://doi.org/10.1177/1054773820982307

41. Abeka, E., Asante, F. A., Laube, W., & Codjoe, S. N. A. (2019). Contested causes of flooding in poor urban areas in Accra, Ghana: An actor oriented perspective. Environment, Development and Sustainability, 22(4), 3033–3049. https://doi.org/10.1007/s10668-019-00333-4

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43. Appeaning Addo, K., Nicholls, R., Codjoe, S., & Abu, M. (2018). A biophysical and socioeconomic review of the Volta Delta, Ghana. Journal of Coastal Research, 345, 1216–1226. https://doi.org/10.2112/JCOASTRES-D-17-00129.1

44. Appeaning Addo, K., Jayson-Quashigah, P.-N., Codjoe, S. N. A., & Martey, F. (2018). Drone as a tool for coastal flood monitoring in the Volta Delta, Ghana. Geoenvironmental Disasters, 5(1), 17. https://doi.org/10.1186/s40677-018-0108-2

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47. Atiglo, D. Y., & Codjoe, S. N. A. (2018). Meeting women's demand for contraceptives in Ghana: Does autonomy matter? Women and Health, 59(4), 347–363. https://doi.org/10.1080/03630242.2018.1500413

48. Derkyi, M., Adiku, S. G. K., Nelson, V., Dovie, B. D., Codjoe, S., & Awuah, E. (2018). Smallholder farmers' perception of climatic and socio-economic factors influencing livelihoods in the transition zone of Ghana. AAS Open Research, 1, 7. https://doi.org/10.12688/aasopenres.12839.1

49. Antwi-Agyei, P., Dougill, A., Stringer, L. C., & Codjoe, S. (2017). Adaptation opportunities and maladaptive outcomes in climate vulnerability hotspots in northern Ghana. Climate Risk Management, 19, 83–93. https://doi.org/10.1016/j.crm.2017.11.003

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51. G.A., F., & S.N.A., C. (2017). Sex preferences for children in Ghana: The influence of educational attainment. Journal of Population Research, 34(4), 313–325. https://doi.org/10.1007/s12546-017-9188-1

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55. Codjoe, S. N. A., & Larbi, R. T. (2015). Climate change/variability and schistosomiasis transmission in the Ga District, Ghana. Climate and Development, 8(1), 58–71. https://doi.org/10.1080/17565529.2014.998603

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65. Akpalu, W., & Codjoe, S. N. A. (2013). Economic analysis of climate variability impact on malaria prevalence: The case of Ghana. Sustainability, 5(10), 4362–4378. https://doi.org/10.3390/su5104362

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