

Areas of specialization: fisheries, aquaculture, fisheries economics, value chain analysis, fish processing and climate change

Name: Berchie Asiedu; **Position title:** Associate Professor

https://www.researchgate.net/profile/Berchie_Asiedu

<https://scholar.google.com/citations?hl=en&user=B8lhOKIAAAAJ&btnA=1>

Education/training:

M.Sc. in Aquaculture	Faculty of Bioscience Engineering, University of Ghent, Belgium	2006
Ph.D. in Fisheries Science	Faculty of Science, University of Ghana	2012
Post-Doc. Research in Climate Change & Aquaculture	Faculty of Agriculture, University of Ibadan, Nigeria	2016
Certificate in Ocean Management: Sustainable Fisheries and Governance.	Australian National University, Canberra, Australia	2017
Post Graduate Diploma in Education	University of Cape Coast, Ghana	2020

A. Positions, honours and research support

Positions and Employment:

Associate Professor (UENR)	2021 –Present
Senior Lecturer (UENR)	2017 –2021
Lecturer (UENR)	2013 – 2017
Assistant Fisheries Officer (Fisheries Commission)	2010-2013
Visiting Scientist (Joint PhD program; UBC, Canada)	2010

Other Experience and Professional Memberships: The Platform for African European Partnership on Agriculture Research for Development (PAEPARD); Sustainable Aquaculture Research Networks for Sub-Saharan Africa (SARNISSA); Aquaculture without Frontiers (AwF); National Committee on Aquaculture; Fisheries and Aquaculture Society (UENR Chapter), OceanExperst, WAMBA-network, Research4Life Community.

Honors, awards and research support:

Australian Awards (2017); CIRCLE Research Uptake Fund (grant funded by ACU, 2016); CIRCLE Post-doc Fellowship (grant funded by ACU, 2015); The World Academy of Sciences (2010); Canadian Commonwealth Exchange Program-Africa (2010); University of Ghent Postgraduate Scholarship (2003).

B. Publications

selected peer-reviewed scientific publications:

- **Asiedu, B.**, Okpei, P., Nunoo, F.K.E. and Failler, P. (2021). A fishery in distress: an analysis of the small pelagic fishery of Ghana. *Marine Policy*, 129, 104500
- **Asiedu, B.**, Amponsah, S.K.K., Failler, P. and Commey, N. A. (2021). Population dynamics of *Ilisha africana* in Coastal Waters of Ghana. *Fisheries & Aquaculture Journal*, Vol. 12 Iss. 1 No: 288 1–7
- Amponsah, S.K.K, Commey, N. A., **Asiedu, B.**, and Hasan Fazli (2021). Assessing the stock status of Atlantic bumper, *Chloroscombrus chrysurus*, Linnaeus 1766, from the coastal waters of Ghana. *Int. J. Aquat. Biol.*, 9(4): 248-253
- Amponsah, S.K.K., **Asiedu, B.**, Avorny, S.Y, Setufe, S.B., Afranewaa, B.A.N. and Failler, P. (2021). Growth, Mortality and Exploitation Rates of African Moonfish (*Selene dorsalis*, Gill 1863) encountered in the Coast of Ghana (West Africa). *European Journal of Biology and Biotechnology*, 2(2), 6-10. <https://doi.org/10.24018/ejbio.2021.2.2.154>
- Ofori-Danson, P.K., **Asiedu, B.**, Alhassan, E.H., Atsu, D.K. and Amponsah, S.K.K. (2021). Pre-impoundment fish stock assessment of the Black Volta: a contribution to

fisheries management of Bui Reservoir in Ghana. *West African Journal of Applied Ecology*, 29(1): 35 – 48

- Anokyewaa, M. A., Amoah, K., Li, Y., Lu, Y., Kuebutornye, F.K.A., **Asiedu, B.** and Seidu, I. (2021). *Prevalence of virulence genes and antibiotic susceptibility of Bacillus used in commercial aquaculture probiotics in China. Aquaculture Reports*, 21, 100784
- Sakyi, K., **Asiedu, B.** and Amponsah, SKK. (2021). Assessment of histamine levels in frozen Atlantic Horse Mackerel (*Trachurus trachurus*) and its implications on consumers in Ghana. *Journal of Fisheries and Coastal Management* 3 (2021) 36-43
- **Asiedu, B.**, Amponsah, S.K.K and Commey, N. A. (2020). Some aspects of the biology of West African Ilisha (*Ilisha africana*, Bloch 1795) from the coast of Ghana, West Africa. *Egyptian Journal of Aquatic Biology & Fisheries*, 24(6): 1 – 14
- Samule K.K. Amponsah, **Asiedu, B.** and Failler, P. (2020). Population parameters of *Oreochromis niloticus* (L) from a semi-open lagoon (Sakumo II), Ghana and its implications on management. *Egyptian Journal of Aquatic Biology & Fisheries*, 24(2): 195 – 207
- Alabi–Doku, B.N., Chen., S., Ampofo-Yeboah, A. and **Asiedu, B.** (2020). Ghana's Fisheries Policies; Evolution and Performance. *Asian Journal of Fisheries and Aquatic Research*,7(1): 11-22. DOI <https://doi.org/10.9734/ajfar/2020/v7i130107>
- Iyiola, A.O., **Asiedu, B.** and Fawole, J. F. (2020). Possible effects of COVID-19 on sustainability of aquatic ecosystems: An overview. *Aquatic Research*, 3(4), 177-187. <https://doi.org/10.3153/AR20016>
- Iyiola, A.O. and **Asiedu, B.** (2020). Micro-benethic of water quality in Ogunpa River, South-Western Nigeria. *West African Journal of Applied Ecology*, 28(1): 85 – 95
- Afriyie, G., Wang, Z., Dong, Z., Ayisi Larbi, C., **Asiedu, B.** and Guo Y. (2020). Complete mitochondrial genome and assembled DNA barcoding analysis of *Lutjanus fulgens* (Valenciennes, 1830) and its comparison with other *Lutjanus* species. *Ecology and Evolution*, 2020;00:1–10. <https://doi.org/10.1002/ece3.6542>
- **Asiedu, B.**, Annor-Baah., G., Annor-Baah., P., Nunoo, F.K.E. and Failler, P. (2019). Illegal, Unreported and Unregulated (IUU) fishing activities on fisheries sustainability: Evidence from Lake Volta, Ghana. *International Journal of Fisheries and Aquatic Sciences*, 7(4)-14-20
- Anokyewaa, A.M. and **Asiedu, B.** (2019). Economic analysis of small-scale aquaculture enterprise in Ghana; a case study of Sunyani Municipality. *Asian Journal of Fisheries and Aquatic Research*, 3(2): 1-12
- Iyiola, A.O., **Asiedu, B.**, Kolawole, A.S. and Failler, P. (2019). Assessment of water quality and bacteriological levels in Nile tilapia (*Oreochromis niloticus*) of Aiba reservoir, Nigeria, West Africa. *Tropicultura* [Online], Volume 37, Number 3, URL: <https://popups.uliege.be:443/2295-8010/index.php?id=1367>
- **Asiedu B.**, Malcom, D. and Iddrisu, S. (2019). Assessing the economic impact of climate change in the small-scale aquaculture industry of Ghana, West Africa. *African Academy of Sciences Open Research*, 1(26), 1-18. DOI: 10.12688/aasopenres.12911.2
- **Asiedu, B.**, Failler, P. and Beyens, Y. (2018). Ensuring food security: an analysis of the industrial smoking fishery sector of Ghana. *Agriculture & Food Security*, 7:38, 1-11, DOI: 10.1186/s40066-018-0187-z
- **Asiedu, B.** Failler, P. and Yolaine, B (2018). Ensuring food security: an analysis of the industrial smoking fishery sector of Ghana. *Agriculture & Food Security*, 187:1-11, DOI: 10.1186/s40066-018-0187-z (in-printing stage)
- Yolaine, B., Failler, P., **Asiedu, B.** (2018). Institutional challenges and constraints for Ghana in exporting fishery products to the European Union. *Food Reviews International*, 34: 3, 265-289. DOI 10.1080/87559129.2017.1289386.
- **Asiedu, B.**, Adetola, J.O., Kissi, O.I. (2017). Aquaculture in troubled climate: farmers's perception of climate change and their adaptation. *Cogent Food & Agriculture*, 3:1296400.
- **Asiedu, B.**, Henneh, S. (2016). Sustaining aquaculture development: comparative study of Multi feed and Rannan feed on the growth performance of Nile tilapia (*Oreochromis niloticus*) in an earthen pond system. *Journal of Applied Sciences Research*, 12(9): 50-57.

- **Asiedu, B.**, Failler, P., Yolaine, B. (2015). Enhancing aquaculture development: mapping the tilapia aquaculture value chain in Ghana. *Reviews in Aquaculture*, 7:1-9.
- **Asiedu, B.**, Nunoo, F.K.E., Ofori-Danson, P.K., Sarpong, D.B., Sumaila, U.R. (2013). Poverty measurements in the small-scale fisheries of Ghana: a step towards poverty eradication. *Current Research Journal of Social Sciences*, 5(3): 75-90.

selected books chapters and manuals:

- **Asiedu, B.** (2020). *Small-Scale Fisheries Sector of Ghana: Importance, Challenges and Opportunities*. In: Isaacs, M., Onyango, P., Akintola, S.L. (Eds.) *Small-Scale Fisheries in Africa: A Regional Portrait*. TBTI Global Publication Series, <https://tbtiglobal.net/>. St. John's, NL, Canada, 132pp.
- **Asiedu, B.**, Nunoo, F. K. E., Alhassan, H. E. and Ofori-Danson, K. P. (2018). *Hydropower Generation and Its Related Impacts on Aquatic Life (Fisheries)* In: *Sustainable Hydropower in West Africa Planning, Operation, and Challenges*. (Editors: Amos T. Kabo-bah. and Chukwuemeka J. Diji). Academic Press-Elsevier Inc. p 109-119, 215pp. ISBN 978-0-12-813016-2. <https://doi.org/10.1016/B978-0-12-813016-2.00008-3>
- **Asiedu, B.**, Asase, A., Iddrisu, S., Ayisi, L.C. (2016). Management, challenges and developments of aquaculture in Ghana, West Africa. Nova Science Publishers Inc, New York. ISBN: 978-1-63485-563-1. pp. 1-28, 90 p.
- **Asiedu, B.** and Nunoo, F. K. E. (2015). *Declining fish stocks in the Gulf of Guinea: socioeconomic impacts*. In: *Assessment and Impacts of Developmental Activities on the Marine and the Fisheries Resources of the Gulf of Guinea* (Editors: Ofori-Danson, P.K., Nyarko, E., Appeaning Addo, K., Atsu, D., Botwe, O.B, and Asamoah, K.E). Physical & Life Sciences Series No. 2, University of Ghana Departmental Reader by Discipline Initiative. Digibooks Gh. Ltd. p 201-218, 301pp
- Nunoo, F. K. E and **Asiedu, B.** (2014). *Livelihoods of beach seine fishers in Ghana, West Africa*. In C. Roscoe (Editor). *Ghana: Social, Economic and Political Issues*. Nova Science Publishers Inc., New York. ISBN 978-1-63321-108-7, ISBN 978-1-63321-109-4 (eBook). p 313-336, 420pp.
- Nunoo, F.K.E., **Asiedu, B.**, Asase, A., Intsiful, G. (2016). Training manual on fisheries management. Centre for Coastal Management, University of Cape Coast. Digibooks Ghana Ltd. ISBN: 978-9988-2-5134-5. . pp. 85, 60-74
- Nunoo, F.K.E., **Asiedu, B.**, Amador, K., Belhabib, D. and Pauly. D. (2016). Reconstruction of Marine Fisheries Catches for Ghana, 1950-2010. In: D. Pauly and D. Zeller (eds.) *Global Atlas of Marine Fisheries: A Critical Appraisal of Catches and Ecosystems Impacts*. Island Press, Washington, D.C. 520 pp. ISBN: 9781610917698.
- Failler, P., **Asiedu, B.**, Yolaine, B. (2014). Value chain analysis of the fishery sector of Ghana with focus on quality, environmental, social, sustainable, food safety, organic requirements and its compliance in infrastructure. United Nations Industrial Development Organization Trade Capacity Building for Ghana. Contract No: 3000018889. Report No.: US/GHA/06/005. 108pp

Journals Editor and Reviewer

- Editorial Board Member, Journal of the Ghana Science Association
- Review Editor, Aquatic Foods
- Nature Foods
- Scientific Reports
- Marine Policy
- Fisheries Science
- International Journal of Fisheries and Aquatic Studies
- West African Journal of Applied Ecology
- Food Reviews International
- Journal of Coastal Management and Fisheries
- The Journal of Energy and Natural Resource Management
- West African Journal of Applied Ecology
- Cogent Food and Agriculture