

Awo Boatemaa Manson INCOOM

CURRICULUM VITAE

PERSONAL STATEMENT

I am a dedicated researcher specializing in the use of climate models to study climate change on water resources. My expertise lies in water resources management and climate modelling, areas where I have developed a deep understanding of the complexities of environmental systems. I hold a Master of Philosophy in Physical Oceanography from the University of Ghana and a PhD in Water Resources Management and Engineering from Kwame Nkrumah University of Science and Technology.

My academic and professional journey has been driven by a strong interest in climate change, particularly its impacts, and the strategies for mitigation and adaptation. I am passionate about contributing to solutions that address the challenges posed by climate change, and I am committed to advancing research that informs effective environmental management and policy-making

EDUCATION

Doctor of Philosophy in Water Resources Engineering and Management (Thesis submitted and pending viva)

2015-2021

Kwame Nkrumah University of Science and Technology

Research area: *Impacts of climate change on agriculture in the SADA zone of Ghana*

Master of Philosophy in Oceanography
University of Ghana, Legon, Ghana

2010-2012

Research area: *Impacts of Sea Level Rise on mangroves*

Bachelor of Science (BSc.) Hons. Oceanography and Fisheries

2005-2009

University of Ghana, Legon, Ghana

Research area: Aspects of growth of *Callinectes amnicola*

Senior Secondary School Certificate

2009-2011

Examination (Biology, Chemistry, Elective Maths, Physics),

Notre Dame Girls Secondary School,
Sunyani-Ghana

CONTACT

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SKILLS

- Use of Microsoft Word, Microsoft Excel, GIS and Remote Sensing tools (ENVI, ArcGis, Qgis).
- Research – Data collection and interpretation
- Good communicator, articulate with excellent writing skills
- Competence in basic facilitation skills
- Good planning and organisational skills
- Good interpersonal skills

LANGUAGE PROFICIENCY

English (Fluent)
French (working knowledge)

WORK EXPERIENCE

Lecturer

Department of Fisheries and Water Resources,
University of Energy and Natural Resources

2021 to date

My duties include:

- Teaching
- Research
- Community Service

Volunteer

Earth Observation and Research Innovation Centre,
University of Energy and Natural Resources, Sunyani

August, 2018-September 2019

As a research assistant, my duties included:

- Teaching of Remote Sensing and Geographical Information Systems (GIS) to undergraduate students
- Holding tutorials in GIS for post-graduate students

Volunteer Teacher

Nyamaah Junior High School, Sunyani

June, 2013-July 2013

As volunteer teacher to this school my duties included:

Teaching of science and mathematics at JHS 1 and 2

National Service Personnel

Fisheries Commission, Sunyani

*October 2009-
August 2010*

As national service personnel my duties included:

- Assisting farmers in the identification of suitable sites for fish ponds
- Supervision of the construction of fish ponds
- Provision of assistance to fish farmers in diagnosing farm related problems
- Participation in mini demonstration and arrangement of study tours with contact farmer groups
- Assisting Farmers in the post-harvest processing of their fish

Student Attachment

Aquaculture Research and Development Center (ARDEC) of WRI

June 2008- July 2008

- Production catfish fingerlings through artificial propagation
- Preparation of feed for catfish fingerlings
- Farm management activities

TEACHING AND SUPERVISION

I have since 2021 been teaching Wetland Management and Conservation, Introduction to Hydrology, Hydrogeology, Introduction to Oceanography, Fisheries Management, Fisheries science, Aquatic Ecology and Fisheries Introduction to Ecology and Ecosystems, and Principles of Integrated Water Resources Management. I have also successfully supervised over 13 dissertations over the years.

PUBLICATIONS

- Abdul-Moomen M., **Incoom, A. B. M.**, Amponsah, S.K.K. (2025). Assessing the effects of farming on water quality of fish farms in Ghana: the case study of Sunyani Municipality. *International Journal of Agriculture, Environment and Food Sciences*, 9 (2): 446-451.
<https://doi.org/10.31015/2025.2.18>
- **Incoom, A. B. M.**, Adjei, K. A., Odai, S. N., Siabi, E. K., Donkor, P., & Frimpong, K. (2025). Adaptation strategies by smallholder farmers to climate change and variability: The case of the savannah zone of Ghana. *Sustainable Futures*, 9, 100543.
- Siabi, E. K., Kabo-Bah, A. T., Anornu, G., Akpoti, K., Mortey, E. M., **Incoom, A. B. M.**, & Yeboah, K. A. (2025). Future land use simulation modeling for sustainable urban development under the shared socioeconomic pathways in West African megacities: Insights from Greater Accra Region. *Journal of Environmental Management*, 376, 124300.
- **Incoom, A.B.M.**, Adjei, K.A., Odai, S.N., Apkoti,K., Siabi, E., Awotwi A.(2023). Assessing Climate Model Accuracy and future climate change in Ghana's Savannah Regions. *Journal of Water and Climate Change* DOI: 10.2166/wcc.2023.070
- Siabi, E. K., Phuong, D.N.D., Kabobah, A, T., Apkoti,K.,Anornu, G., **Incoom, A.B.M.**, Nyantekyi, E. K., Yeboah, K. A., Siabi, S. E., Vuu, C., et al (2023). Projections and Impact Assessment of local climate change of the Black Volta Basin of Ghana Based on Statistical Downscaling Model. *Journal of Water and Climate Change*
DOI: 10.2166/wcc.2023.352
- **Incoom, A.B.M.**, Adjei, K.A., Odai, S.N., Apkoti,K., Siabi, E(2022). Impacts of climate change on crop and irrigation water requirement in the Savannah Zone of Ghana. *Journal of Water and Climate Change* Vol 13 No 9, 3338 doi: 10.2166/wcc.2022.129c
- Siabi, E. K., Dilec, Y.T., Kabobah, A, T., Amo- Boateng, M., ,Anornu, G., Apkoti,K., Vuu, C., Donkor, P., Mensah, S. K., **Incoom, A.B.M.**, Opoku., E. K., and Atta-Darkwa T.(2022) Machine learning based groundwater prediction in data scare Volta basin of Ghana. *Applied Artificial Intelligence* VOL. 36, NO. 1, e2138130
<https://doi.org/10.1080/08839514.2022.2138130>
- **Incoom, A. B.M.**, Adjei, K.A., Odai, S.N., (2020). Rainfall variabilities and Droughts in the Savannah zone of Ghana from 1960 - 2015. *Scientific African Journal*
DOI: 10.1016/sciaf2020.e0057
- **Manson, A.A.B.**, Appeaning Addo, K., Mensah, A., M., (2013). Impacts of shoreline morphological change and sea level rise on mangroves: The case of the Keta coastal zone. *E3 journal of Environmental Research and Management* vol4(11). Pp 0359-0367)

REFEREES



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