

Title	Dr	Research interests in water (select maximum 10)								
Given name	Michael Soakodan	Climate & Water	Hydrological extreme events	Water flow	Surface water	Ground water	Marine Environment	Aquatic habitats/ Ecosystems	Water availability	
Surname (family name)	Aduah	Water in arid areas	Floods	Catchment processes	Limnology	Soil water	Coastal waters	Wetlands	Water utility	
Sex	male	Arctic water	Droughts	Run-off generation	Fluvial dynamics	Karst water	Estuarian waters	Lakes	Water storage	
E-mail address	msaduah@umat.edu.gh/ aduahbu@gmail.com	Water cycle	Ice phenomena	Groundwater-Surface water interactions	Continental scale processes	Hydrogeology		Peatlands	Dams / Reservoirs	
Affiliation		Atmospheric water		Hyporheic processes	Dams / Reservoirs	Recharge		Rivers	Water scarcity	
Position	Senior Lecturer	Glaciers & Cryosphere		Interstitial water	Sediments				Supply & Distribution	
Institute/ department	Department of Geomatic Engineering, University of Mines and Technology			Porwater	Rivers				Water allocation	
Country	Ghana			Alluvial water	Floodplains				Water restrictions	
Tel nr.	00233 249 447799									
Fax nr.										
Physical address	Department of Geomatic Engineering, University of Mines and Technology	Modelling and GIS	Water quality	Water & Health	Water & Energy	Water management/ policy	Water use	Water Law & Economics	Socio-political aspects	
Postal address	BOX 237	Hydro GIS	Pollution	Water & Sanitation	Water-Energy nexus	Integrated Catchment management	Urban	Water trade	Water history	
Skype name	Skype name	Groundwater modelling	Purification	Water & Food	Integrated water resource management		Agricultural	Virtual water	Water wars	
Website	<a href="http://www.umat.edu.gh">www.umat.edu.gh</a>	Surface water modelling	Hydrochemistry	Waterborne diseases	Water for energy	Water loss	Mine water	Privatisation	Water & Poverty	
Study areas		Remote sensing	Treatment	Drinking water	Energy for water		Industrial	Water as public good	Access to water	
Countries	Ghana and Zambia		Desalination	Water purification	Water, Food & Energy	Reticulation & Supply	Grey water	Right to water		
Region	West Africa and Southern Africa		Waste water			Transboundary water	Green water	Bills & Laws		
Topics of last three projects	<ol style="list-style-type: none"> <li>1 Assessing potential impacts of land use and climate changes on river ecology of a forested catchment</li> <li>2 Assessing combined impacts of land use and climate changes on forest hydrology in southern Ghana</li> <li>3 Assessing impacts of land use changes on hydrology of a forest catchment in Ghana</li> </ol>	Other (please specify)	land cover mapping and modelling							
Envisioned activities in Commission										
attend/ organise meetings	✓									
contribute to publications	✓									
read newsletter	✓									
joint research, collaboration	✓									
Other (please specify)										
Research interests in water (supply 5 keywords)	<input type="checkbox"/> evapotranspiration <input type="checkbox"/> run-off generation <input type="checkbox"/> land use and water <input type="checkbox"/> floods <input type="checkbox"/> remote sensing of water									

Photo of yourself you would like to see on the Commission's website



Topics of last 10 publications

- 1 Estimating Scenario-based Impacts of Climate and Land Use Changes on Potential River Ecology of a Rainforest Catchment in Ghana, West Africa
- 2 Assessing Impacts of Land Use Changes on the Hydrology of a Lowland Rainforest Catchment in Ghana, West Africa
- 3 Assessing suitability of the ACRU hydrological model in a rainforest catchment in Ghana, West Africa
- 4 Scenario-based Impacts of Land Use and Climate Changes on the Hydrology of a Forested Catchment in Ghana, West Africa
- 5 Comparison of Object-Based Classifiers and Traditional Pixel-Based Classification Techniques using Landsat Imagery
- 6 Determination of Soil Erosion Vulnerability in the Lafa Basin of Ghana using RUSLE and GIS
- 7 Estimating potential future land use in the Bonsa catchment, Ghana, West Africa
- 8 Modelling Potential Future Urban Land Use Changes in the Sekondi-Takoradi Metropolitan Area, Ghana
- 9 Assessment of Positional Accuracies of UAV-Based Coordinates Derived from Orthophotos at Varying Times of the Day
- 10 Analysis of Land Cover Changes in the Bonsa Catchment, Ankobra Basin, Ghana

Publication links

- 1 <http://www2.umat.edu.gh/git/index.php/git/article/view/267>
- 2 <https://www.mdpi.com/2073-4441/10/1/9>
- 3 <https://www.sciencedirect.com/science/article/pii/S1110492916301242>
- 4 <https://www.iijer.org/scenario-based-impacts-of-land-use-and-climate-changes-on-the-hydrology-of-a-forested-catchment-in-ghana>
- 5 [http://www2.umat.edu.gh/git/index.php/git/article/view/319/0](http://www2.umat.edu.gh/git/index.php/git/article/view/319/)
- 6 <https://www.iijer.org/determination-of-soil-erosion-vulnerability-in-the-lafa-basin-of-ghana-using-rusle-and-gis>
- 7 <http://www.sajg.org.za/index.php/sajg/article/view/594>
- 8 [http://www2.umat.edu.gh/git/index.php/git/article/view/266/0](http://www2.umat.edu.gh/git/index.php/git/article/view/266/)
- 9 <https://www.sajg.org.za/index.php/sajg/article/viewFile/789/404>
- 10 [http://www.aloki.hu/pdf/1304\\_935955.pdf](http://www.aloki.hu/pdf/1304_935955.pdf)