

Matthieu Jean-Claude Ahouangbenon

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EDUCATION

University of Delaware, College of Earth, Ocean and Environment, Newark, DE

PhD degree in Physical Geography and Spatial Sciences September 2020 - present

State University of New York, College of Environmental Science and Forestry, Syracuse, NY

MSc degree in Forestry and Natural Resource Management 2020

University of Abomey-Calavi, Institute of Geography (IGATE)

MSc degree in Environmental risks and hazards management 2017

University of Abomey-Calavi, Polytechnic school of Environment Engineering

BSc degree of Environment Engineering 2013

RESEARCH EXPERIENCE

State University of New York, College of Environmental Science and Forestry

Graduate research: Projected impacts of climate change on maize, millet and rice in West Africa—a modeling approach using AquaCrop and remotely sensed data.

- Pre-processing of climate data using MODISStp and R
- Calibration and validation of AquaCrop
- Future yield projection based on various representative concentration pathways.

University of Abomey-Calavi, Institute of Geography (IGATE)

Graduate research: Impact of climate on multitemporal change analysis using NDVI and 2018 supervised classification of Atlantique, Couffo, and Zou districts in Benin, West Africa

- Pre-Processing of multi-temporal images using Erdas v16.5
- Processing using ArcGIS 10.7.1 (NDVI and raster overlay analysis)
- Correlation between NDVI and climatic variables

University of Abomey-Calavi, Polytechnic school of Environment Engineering

Undergraduate research: Environmental analysis of the impacts generated by sand mining

- Environmental impacts analysis of the mining system on the in-situ ecosystems
- Survey-based approach and auditing
- Suggestion of appropriate rehabilitation schemes for post-project environmental risk management

Jura-Afrique Benin, Private NGO

Professional internship research: Ecological value of an area located in the center of a chain of mountain in northern Benin

- Evaluate environmental resources
- Apply GIS-based techniques for suitability analysis of the prospected land use types
- Suggest management schemes for the study area

PUBLICATIONS

I-Peer-reviewed journal article

Ahouangbenon M.J.C., Ogouwale E.(2019).“Evaluation of MODIS-derived/meteorological station temperature in predicting maize crop yield in Benin, West Africa”. International Journal of Agriculture and Environmental Research. ISSN: 2455-6939. [[CrossRef](#)]

II-Work in Progress

- Comparison of two sampling response design based on supervised classification of multitemporal Landsat images: Case of the lower Oueme basin in Benin, West Africa (*submitted in EJRS elvisier*)
- Impact of climate change on maize, millet and rice in West Africa: A modeling approach using Aquacrop and remotely sensed data

AWARDS AND DISTINCTIONS

- *William J. Fulbright scholarship for MASTER’S IN FOREST AND NATURAL RESOURCE MANAGEMENT AT SUNY-ESF*
- *Half scholarship for BACHELOR’S DEGREE IN ENVIRONMENTAL SCIENCE AT THE POLYTECHNIC SCHOOL OF THE NATIONAL UNIVERSITY OF BENIN*
- *Delegate of the POLYTECHNIC SCHOOL OF ABOMEY-CALAVI for the first Edition of Spoken English Challenge Initiative (SECHI), of which I was ranked third over 12 candidates*
- *Scholarship for TOEFL test studies and half scholarship for advanced English study in GHANA*

INTERNSHIPS

Professional internship in Jura-Afrique-Benin	2014
Academic internship for dissertation defense	2013
Academic internship in Benin’s general water center,	2012
Internship in the national institute of agricultural research of Benin	2011

SKILLS

Language: English (Full proficiency)	Computer: Minitab, Python, R
French (Fluent); Fongbe, Goun (local languages)	Software: ArcMap 10.7.1, ArcGIS Pro, ERDAS 16.5, ENVI 5.5.

ACTIVITIES AND INTERESTS

Sport: Football, Basketball, swimming • *Music*: Musical composer, teacher of sol-fa basics and player of piano, congas and talking drum • *Travels*: West Africa, Athens, OH; Cincinnati, OH ; Philadelphia, PA.