

EDUCATION

- 2020 - University of Delaware, Department of Geography & Spatial Sciences, Newark, DE
 PhD candidate
- 2018-2020 State University of New York, College of Environmental Science and Forestry, Syracuse,
 NY
 MSc in Forestry and Sustainable Resource Management
- 2015-2017 University of Abomey-Calavi, Institute of Geography (IGATE)
 MSc in Environmental Risks and Hazards Management
- 2010-2013 University of Abomey-Calavi, Polytechnic School of Environment Engineering
 BSc of Environment Engineering

PUBLICATIONS

- Ahouangbenon, M. (2020). "Impacts of Climate Change on Crop Production in West Africa: A Modeling Approach Using Aquacrop and Remotely Sensed Data". *Dissertations and Theses*. 214. [[CrossRef](#)]
- Ahouangbenon M.J.C., Ogouwale E. (2019). "Evaluation of MODIS LST V6/weather station-based temperature datasets in predicting maize crop yield response using AquaCrop: Case of Benin". *International Journal of Agriculture and Environmental Research*. ISSN: 2455-6939. [[CrossRef](#)]

Manuscript in preparation

- Large-scale crop type mapping using sentinel-2 and Google Earth Engine platform: Case of Benin, Burkina-Faso and Niger, West Africa.

AWARDS AND DISTINCTIONS

- 2022 Student research award from the Human Dimensions of Global Change Specialty Group, American Association of Geographers
- 2022 Graduate Research Grant award from the Africa Specialty Group, American Association of Geographers
- 2022 Graduate Research Enhancement Grant from Climate Change Science and Policy Hub, University of Delaware
- 2021 Data Science Institute fellow, University of Delaware
- 2021 Winner of Florence Margai student paper competition, American Association of Geographers

- 2018 William J. Fulbright scholarship for master's in Forest and Sustainable Resource Management at SUNY-ESF
- 2013 Delegate of the Polytechnic School of Abomey-Calavi for the first edition of spoken English challenge initiative (ranked third among 12 candidates)
- 2013 Scholarship for TOEFL test studies and half scholarship for advanced English study in Ghana
- 2010 Half scholarship for Bachelor's degree in environmental science at the Polytechnic School of the National University of Benin

CONFERENCE AND PRESENTATION

(* denotes undergraduate mentee)

Ventimiglia, I.*, Ahouangbenon, M., Mondal, P. Radar satellite data for mapping rice farming activities in the Vietnamese Mekong Delta. Delaware Space Grant Consortium Research Symposium. April 2022, University of Delaware. Poster Presentation.

Ahouangbenon M., Beier C. Impacts of climate change on maize, millet and rice in West Africa—a modeling approach using AquaCrop and remotely sensed data. American Geophysical Union, December 2020 (Virtual). Poster presentation.

RESEARCH EXPERIENCE

University of Delaware, Department of Geography and Spatial Sciences (Spring-Summer 2022)

Research Assistant for collaborative project in Vietnam

- Pre-processing and analyzing Sentinel-2 images for multiple years
- Developing land cover trajectory maps
- Contributing to conference presentations and manuscript
- Mentoring undergraduate student

State University of New York, College of Environmental Science and Forestry (2018-2020)

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
- Yield simulation/projection using AquaCrop and various representative concentration pathways.

University of Abomey-Calavi, Institute of Geography (IGATE) (2015-2017)

Graduate research: Impact of climate on multi-temporal 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 (2010-2013)

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 (2014)

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

TEACHING EXPERIENCE

Fall 2022	GEOG 670: Geographic Information Systems and Science (teaching assistant for Dr. Jing Gao)
Fall 2021	ELEG/GEOG/MAST 481/681: Remote Sensing of Environment (teaching assistant for Dr. Pinki Mondal)
Winter 2021	GEOG 372: Introduction to GIS (teaching assistant for Dr. Tracy DeLiberty)
Fall 2020	ELEG/GEOG/MAST 481/681: Remote Sensing of Environment (teaching assistant for Dr. Pinki Mondal)

GUEST LECTURES

2020, 2021	GEOG 372: Introduction to GIS
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INTERNSHIPS

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

PROFESSIONAL CERTIFICATES

2022	Diversity and inclusion, University of Delaware Diversity: Inclusion in the modern workplace
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LEADERSHIP CERTIFICATES

Service des Volontaire de l'Universite d'Abomey-Calavi

- Volunteering camp and community service

International Youth Fellowship

- Change in mentality of youth

Van Duyre Entrepreneurial Leadership Institute, Cotonou, Benin

- How to become a leader at a global scale

Young African Leaders Initiative, US Department of State

- Focus on: Understanding Climate Change
- Creating and Maintaining Social Enterprises
- Basics of Public-Private Partnerships
- Fundamentals of Starting and Running a Business
- Management Strategies for People and Resources

Focus on: Understanding Elections and Civic Responsibility

SKILLS

Language: English (Full proficiency)	Computer: R (advanced), Python (intermediate)
French (Very Fluent); Fongbe, Goun (local languages)	Software: ArcMap 10.8.1, QGIS