Bright **Aboh**

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🎓 Education and Training

2017 - 2019	**Master of Science in Mathematical Sciences, African Institute for Mathematical Sciences - Senegal.**
Modules :	Big data, computer programming, statistics with r, statistics and probability, mathematical problem solving, graph theory and applications.
Thesis :	Social network analysis for churn prediction.
Final Grade :	Good Pass (Above 80%).
2011 - 2015	**Bachelor of Science in Financial Mathematics, University for Development Studies - Ghana.**
Modules :	Mathematical modeling and application, statistics, differential equations, time series and forecasting, economics, applied mathematics, research methods.
Project :	Modeling the effects of capital market on the Ghanaian economy using regression analysis.
Final Grade :	Second Upper (4.22/5).

💼 Professional Experience

September 2021 — Present

Ishango AI Fellow, African Institute for Mathematical Sciences, Kigali, Rwanda.
> Identifying tobacco fields using machine learning and remote sensing
> Estimating tobacco yields using machine learning .

Remote sensing | Machine learning | Spatial analysis

April 2021 — August 2021

Data Science Fellow, Ghana Statistical Service, Accra, Ghana.
> Building of dashboards to monitor Ghana Population and Housing Census data.
> Displaying important geospatial and logistical information on census roll-out.
> Pre-processing and data visualization of census data.
> Training of Data Science Trainees of the Ghana Statistical Service.

Population and Housing Census Data | Data Visualization | Data analysis

November 2020 — Present

Reviewer, Telematics and Informatics Journal (Elsevier), an Interdisciplinary Journal on the Social Impacts of New Technologies, Remote.
> Providing written constructive feedback on articles submitted.
> Recommending on the acceptance or rejection of articles reviewed.
> Determining the scientific merits of the articles.

November 2020 — April 2021

Research intern, Integrated Digital Monitoring and Management of Air Pollution, AIMS - DIDA, Kigali, Rwanda.
> Defining a methodological framework for modeling air pollution in Sub-Saharan Africa cities.
> Holding regular meetings with Imperial College and Universities Space Research Association on data analytics and methodologies.
> Analyzing satellite imagery
> Organising a workshop in collaboration with the University of Ghana, Imperial College, and AIMS on monitoring needs.

Digital surveillance | Air quality modeling | Data analysis

June 2019 — September 2020

Machine Learning and Climate Change research intern, Rwanda Environment Management Authority, Kigali, Rwanda.
> Set up and managed database.
> Collected and analysed satellite data.
> Analyzed air quality data for health recommendations.
> Implemented Machine Learning models for land use classification.
> Visualized and communicated results.

Google Earth Engine | Python | Collect Earth | QGIS | PostgreSQL | SQLite | Anaconda

May 2018 **November 2018**	**Data Scientist, Orange Telecommunication, Dakar - Senegal.** › Analyzed and constructed social network of subscribers. › Developed a hybrid machine learning model to predict multi-SIM owners. `Scala` `Python` `Neo4j`
September 2017 **May 2018**	**Community Service, AIMS, Mbour - Senegal.** › Swept and cleaned Mbour beach. › Visited, interacted and clean the Pepiniere de Mbour orphanage › Cleaned AIMS center
October 2016 **March 2017**	**Volunteer Mathematics Tutor, Adaklu Senior High School, Ho, Ghana.** › Taught core and elective mathematics. › Coordinated sport and entertainment activities › Appraised students. › Proctored student. `Teacher's guide` `Mathematics syllabus`
September 2015 **August 2016**	**Mathmatics Tutor, Adaklu Senior High School, Ho, Ghana.** › Taught core and elective mathematics. › Coordinated sport and entertainment activities. › Appraised students. › Proctored students. `Teacher's guide` `Mathematics syllabus`

⊟ Competencies

Programming Language	Python, R, SQL, Scala.
Big Data Frameworks	Spark, Hadoop, Hive.
Databases	MySQL, PostgreSQL, Neo4j (Graph Database).
Development tools	IntelliJ Idea, Pycharm, Eclipse, Git, Anaconda.
Operating Systems	Mac OS X, Windows Server, Windows OS, Unix.
Others	SPSS, QGIS, Power BI Cloud Computing, machine learning modelling, statistical modelling,

🌐 Languages

English	● ● ● ● ●
Français	● ● ● ○ ○

🖥 Conferences and Seminars

› 2021 Attendee : Data needs for better policies on air pollution in Sub-Saharan Africa - Virtual.
› 2020 Presenter (Talk title : Satellite imagery analysis for Land Use, Land Use Change and Forestry : A pilot study in Rwanda) (Presentation link) : Neural Information Processing Systems (NeurIPS) - Virtual .
› 2020 Presenter (Talk title : Satellite imagery analysis for Land Use, Land Use Change and Forestry : A pilot study in Rwanda) (Presentation link) : ACM SIGCAS Conference on Computing and Sustainable Societies - Virtual.
› 2020 Attendee : UNEP/UNDP Global Support Programme (GSP) : Mitigation Actions - Virtual.
› 2019 Attendee : Data Science Africa Workshop - Ghana.
› 2019 Attendee : Workshop on greenhouse estimation using Intergovernmental Panel on Climate Change (IPCC) software - Rwanda.
› 2018 Attendee : Workshop with School on Stochastic Analysis, Financial and Insurance Mathematics - AIMS Ghana.
› 2018 Attendee : Short courses on Applied mathematics - TU Chemnitz - Germany.

📰 Publications

Satellite Imagery Analysis   2020
🔗 https://dl.acm.org/doi/pdf/10.1145/3378393.3402268   🔗 Presentation ACM 2020
Satellite imagery analysis involved the collection of satellite imagery to classify and quantify various land forms and changes that occurs between them using machine learning.
`Javascript` `LaTeX` `Machine Learning`

🏆 Honors and Awards

› Certificate from Udacity in Programming for Data Science (Non Degree Program).

- UN FAO certificate in the use of Collect Earth.
- Certificate from the Global Support Program (GSP) training for Rwanda experts in the preparation of UNFCCC report.
- DAAD fully funded workshop in Applied Mathematics at TU Chemintz, Germany.
- African Institute for Mathematical Sciences fully funded Masters Scholarship, AIMS - Senegal.

❝ References

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