William A. B. Hodonou

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Data Scientist – Statistician

Education and Training

Université de Reims Champagne-Ardenne, France
Master 2 - Statistics for Evaluation and Prospective. 2017
Master 2 - Economy, Environment and Sustainable Development. 2016

Kwame Nkrumah University of Science and Technology, Ghana
Bachelor of Science in Actuarial and Statistics. 2013

Paris School of Economics (Summer School)
Microeconometrics and Policy Evaluation – Modern Estimation and Machine Learning. 2024

Professional Experience

Economist Statistician, *National Institute of Statistics and Demography (Mai 2023–Present)*

- Participation in the design and production of annual national accounts (processing of data sources, compilation of supply and use tables, development of branch accounts, creation of "Who-to-Whom" matrices, participation in socio-economic surveys.
- Participation in the development of the social accounting matrix (MCS) and contribution to environmental statistics projects.
- Production of Economy-wide material flow accounts and circular economy indicators.

Data analyst, *Centre d'Expertise en Évaluation du Développement (2018–Avril 2023)*

- Participation in data collection project, including survey design, sample management, survey implementation, digitization of questionnaires, survey data management, indicator development, assistance in writing technical offers, participation in the production of technical reports for:
  - Studies of the effects/impacts of training actions on the performance of state agents. The effects and impacts on their performance and that of the public administration.
  - Satisfaction Survey of Municipalities Regarding the Participation of DDPD in the Implementation of Advisory Assistance to Municipalities.
  - Impacts of the COVID-19 on agriculture, food, and nutritional security in Benin". This is a study that represents FAO's contribution to the national study carried out by the United Nations system.
  - Participation in the development of an action plan for the implementation of the Low Carbon and Climate Resilient Development Strategy; Preparatory work: Review the current political, institutional, legislative, and regulatory framework. This review considers relevant studies and analysis carried out in recent years.
- Technical tools: R, Excel, STATA, SurveyCTO.

Research assistant, lecturer *Institut Universitaire MathFinEc(nov-2020-jan-2022)*

- Developed and taught courses for undergraduate students, with topics including Excel-VBA, statistical modeling, descriptive statistics, and inference (Created lecture materials, provided hands-on demonstrations and mentoring, designed course assignments and examinations); Attend management meetings

Data analyst/scientist *Various Clients (2019–Present)*

- Individual consultant to support the data collection firm for the impact evaluation of PAPSFRA.
- Individual consultant in digital data management to support the baseline data collection of the project PLURIELLES a project focused on strengthening sexual and reproductive health and rights for vulnerable and marginalized women and adolescent girls in Benin (SANTÉ MONDE).
- Capacity building for INSTAD (National Institute of Statistics and Demography) technical staff and sectoral structures in the design and implementation of data collection operations with KOBOCOLLECT.
- Individual associate statistician consultant for the evaluation of the effects and impacts induced by the implementation of PADMAR. Digitization, training, supervising data collection and processing.
- Associate Consultant for the Evaluation of the Malaria Surveillance System in Benin for CHAI. Ensures the digitization, training of agents supervising the collection and processing of data.
- Digital data management and data cleaning automation for "Development of the national social profile: assessment of the effects of the COVID 19 pandemic on the living conditions of households and vulnerable groups following the response measures taken by the government of Benin."
- Baseline study on the impact of COVID-19 on Decentralized Financial Systems, funded by the FNM.
- Socio-economic survey mission for final evaluation of the impacts of PAURAD achievements – LOT MO2002-PAURAD/EVA_FIN. Ensures the digitization, training of agents, supervising data collection cleaning.

INRAB/Programme Analyse de la politique Agricole: *Research assistant   2019-2020*

- Write a research paper titled: The impact of adoption of improved cereals variety on food security and well-being in Benin.
- Participation in the collection of primary data for 2 studies: Techno-economic evaluation of the use of tractors and main power tillers in soil preparation and minimum tillage works on different soils in Benin; Analysis of supply and demand for types of agricultural credit adapted to the needs of rural women.

Mutuelle Générale de la Police: *Analysis Officer, 2017(5 months)   Créteil, France*

- Updating and production of activity management dashboards for the operations department.
- Reporting of quality and performance indicators.
- Creation of a statistical model to predict the workflow to optimize the team's working time. Technical Tools: R, Excel, VBA, Limesurvey.

Technical Skills:

- Programming and Statistical Software & tools: Python, R, Jupyter, RMarkdown, Excel-VBA, SPSS, STATA, SAS (certified base programmer for SAS 9), Surveycto, kobotoolbox.
- Statistics: Multivariate statistical analysis (PCA, Multiple factor analysis), Linear models, public policy impact assessment methods, classification, machine learning, etc.
- Languages: French (native), English (Full professional proficiency).