

# Emilio Norberto ABATA

## Statistician | Data Scientist

[✉ abemilio22@gmail.com](mailto:abemilio22@gmail.com) | [📞 07 80 07 15 50](tel:0780071550) | [in linkedin.com/in/EmilioAbata](https://linkedin.com/in/EmilioAbata) | [github.com/statemile](https://github.com/statemile)

## EDUCATION

SEP 2023 – AUG 2024 **Master's degree in Stochastic tools and Computational Methods for Decision**

*Université de Pau et des Pays de l'Adour. Honours : Very good*

*Main courses : Experimental Design, Advanced Machine Learning, Deep learning, Survival data analysis, Text mining*

OCT 2021 – AUG 2023 **Master's degree in Statistics**

*Université d'Abomey-Calavi, Bénin. Honours : Very Good*

*Main courses : Linear models, Generalized linear models, Mixed effects models, Survival data analysis, Time series, Mathematical epidemiology, Bayesian statistics*

OCT 2015 – AUG 2019 **Bachelor's degree in Statistics**

*Université d'Abomey-Calavi, Bénin Honours : Good*

*Main courses : Analysis, Linear Algebra, Probability, Mathematical Statistics, Data analysis, Surveys, Econometrics, Time series, Database*

## SKILLS

**PROGRAMMING :** Python, R, SAS, SQL, Pack office (Word, Excel, PowerPoint), Git,  $\text{\LaTeX}$ .

**STATISTICS :** Data management, Data visualization, Factorial methods (PCA, FCA, MCA), Linear and non-linear regression, Quantile regression, ANOVA, ANCOVA, Mixed-effects models, Time series models (Box-Jenkins method, SARIMA model), Survival analysis (Kaplan-Meier method, Cox model), Causal inference (Potential outcomes, IPTW, Propensity score, G-computation, TMLE, DAG).

**MACHINE LEARNING :** Supervised and unsupervised learning (KNN, K-Means, Decision Tree, SVM, Random Forest, CAH, DBSCAN), Deep learning (MLP, LSTM, CNN, Transformer).

## PROFESSIONAL EXPERIENCE & PROJECTS

Aug 2024 **Trainee statistician in SAFT's battery management and modeling team. Nancy, France**

- Visualization and exploratory analysis of time series.
- Lifetime prediction of industrial batteries with uncertainty quantification.

[Gaussian processes](#) [Domain adaptation](#) [Pandas](#) [Numpy](#) [Matplotlib](#) [Scikit-learn](#) [GPflow](#)

Jul 2023 **Final year project on monthly and decadal rainfall prediction (CIPMA). Cotonou, Bénin**

- Processing and analysis of rainfall time series.
- Development of predictive rainfall models using statistical and machine learning methods.

[Seasonality](#) [Stationarity](#) [SARIMA](#) [LSTM](#) [Pandas](#) [Numpy](#) [Tensorflow](#) [Keras](#) [Statsmodels](#)

Aug 2022 **Customer insight project at the artificial intelligence summer school (Vallé Foundation). Cotonou, Bénin**

- Clustering of ENGIE customers with the same consumption habits.
- Prediction of a new customer's consumption band based on its characteristics.

[Decision trees](#) [Logistic regression](#) [SVM](#) [Random forest](#) [Pandas](#) [Numpy](#) [Scikit-learn](#) [XGBoost](#)

Dec 2020 **Junior consultant for the DIgnostics for Multidrug resistant tuberculosis in Africa study at the Laboratoire Supranational de Référence de la tuberculose.. Cotonou, Bénin**

- Data cleansing and data processing.
- Exploratory analysis according to the statistical analysis plan.

[Missing data](#) [Inconsistent data](#) [dplyr](#) [tidyverse](#) [ggplot2](#) [gtsummary](#) [Rmarkdown](#)

FRENCH :    Reading      
              Writing      
              Speaking    

ENGLISH :    Reading      
              Writing      
              Speaking    

## “ REFERENCES

Marianne CLAUSEL

*Professor, FRANCE*

 marianne.clausel@univ-lorraine.fr

Christian PAROISSIN

*Associate Professor, FRANCE*

 christian.paroissin@univ-pau.fr

Wilfried BEKOU

*Statistician, BÉNIN*

 wbekou@yahoo.fr