

# Emilio Norberto ABATA

## Statistician | Data Scientist

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## 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**
- Apr 2024
- 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**
- Mar 2023
- 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 (Vallet Foundation). Cotonou, Bénin**
- Jul 2022
- 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 DIAGnostics for Multidrug resistant tuberculosis in Africa study at the Laboratoire Supranational de Référence de la tuberculose.. Cotonou, Bénin**
- Oct 2020
- Data cleansing and data processing.
  - Exploratory analysis according to the statistical analysis plan.
- Missing data Inconsistent data dplyr tidyverse ggplot2 gtsummary Rmarkdown

## LANGUAGES

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FRENCH :    **Reading**    ● ● ● ● ○  
                  **Writing**    ● ● ● ● ○  
                  **Speaking** ● ● ● ● ○

ENGLISH :    **Reading**    ● ● ● ○ ○  
                  **Writing**    ● ● ● ○ ○  
                  **Speaking** ● ● ○ ○ ○

## REFERENCES

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**Marianne CLAUSEL**

*Professor, FRANCE*

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**Christian PAROISSIN**

*Associate Professor, FRANCE*

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**Wilfried BEKOU**

*Statistician, BÉNIN*

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