



## Summary

I am a Data Engineer / Analyst.  
As a Data passionate, I enjoy automating and deploying web applications for Data Analysis.  
I also like to draw, write short narrative texts/poems, read, go for a run, travel to meet people and discover new places.

## Education

**2020 | Master's Degree**  
Applied Mathematics and Computer Science  
Option : Statistics  
UNIVERSITY OF LILLE (FRANCE)

**2017 | Master's Degree**  
Econometrics and Quantitative Finance  
UNIVERSITY CHEIKH ANTA DIOP (SENEGAL)

**2011 | Baccalaureate**  
Scientific option  
COURS SACRE-COEUR (SENEGAL)

## Languages

FRENCH	● ● ● ● ● ●
ENGLISH (B1 – CECR)	● ● ● ● ○ ○
SPANISH	● ● ● ○ ○ ○

## Work Experience

### Ph. D. student in Biostatistics

*Institut Montpelliérain Alexander Grothendieck (IMAG)*

*Montpellier University | France*

Oct. 2020 to present

- Propose a Machine Learning based methodology to automate seafloor geomorphology mapping.
- Communication through seminars, international conferences, colloquia, ..., to share the results of my research.
- Develop skills around ethics and reproducibility in research, Data management, High Performance Computing (HPC), R packages development, etc.
- Teach Statistics to university students.

### Spatial Data Analyst (intern)

*Lille University | France*

Feb. - Aug. 2020

- Data wrangling : Data cleaning, Missing values handling, Feature engineering.
- Exploratory analysis: Univariate / bivariate / Multivariate analysis.
- Dimensionality reduction : Factor Analysis (PCA, NMDS, etc.).
- Spatial data analysis: Spatial interpolation (Kriging, IDW, Regression Kriging, spatial GAM, etc.), Clustering.

### Sales Advisor

*Premium Contact Center International | Senegal*

Jun. 2016 - Jun. 2017

- Improve brand awareness.
- Support for the use of the brand's products and services.

## Key projects

- Creation of RShiny applications for quantitative data analysis.
- Development of a R package for spatial data analysis and visualization.
- Creation of a website for event equipment leasing.
- Creation of VBA macros to customize cover letters templates generation.



## SKILLS

### ❖ Data

- Data mining
  - Extraction, cleaning, feature engineering
    - ETL (Sql Server)
      - | R: tidyverse, dplyr, stringr, etc.
      - | Python: Numpy, Pandas, SciPy.
- Exploratory analysis
  - Univariate / Bivariate / Multivariate analysis, Visualization, Reporting
    - Tableau, RShiny, Flexdashboard, R: FactoMiner, ggplot2, plotly, etc. | Python: Matplotlib, Seaborn.
- Machine Learning
  - Regression, Classification, Dimensionality reduction, Clustering
    - R: caret | Python: Scikit Learn, TensorFlow.

- Big data
  - High Performance Computing (HPC)
    - Cluster MESO@LR.
  - Parallel computing
    - R: Parallel, Multidplyr.

### ❖ Programming Languages

- R, Python, SAS, SQL, VBA, LaTeX, HTML, CSS, PHP, Java Script, Bootstrap.

### ❖ Softwares / IDE

- RStudio, Jupyter Notebook, Azure ML, Anaconda, Git, Github.
- Tableau, Gretl, Eviews, Stata, GeoDa
- Excel, PowerPoint.

### ❖ Databases Systems

- MySQL DB  
Browse, Create, Update, Delete, SQL Server, PHP, MyAdmin
- SQL for Data Science
  - ❖ SAS programming
  - ❖ Python programming
  - ❖ Machine Learning with Scikit Learn
  - ❖ R Package development