

Summary

I am a Data Engineer, at the end of a Ph. D. thesis in Applied mathematics.

Passionate by Data Analysis et Web designing, I enjoy programming automating routine tasks on web interfaces in my sparse time.

Last 03 years, I have worked on spatial analysis of seafloor data and built predictive models for geomorphological maps.

Education

2020 | Master's Degree

Applied Mathematics and Computer science UNIVERSITY OF LILLE (FRANCE)

2017 | Master's Degree

Econometrics and Quantitative Finance UNIVERSITY CHEIKH ANTA DIOP (SENEGAL)

2011 | A-level

Scientific option

COURS SACRE-COEUR (SENEGAL)

FRENCH

ENGLISH (B1 - CECR)

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SPANISH

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Work Experience

Ph. D. student in Applied Mathematics

Institut Montpelliérain Alexander Grothendieck (IMAG)

Montpellier University | France

Oct. 2020 to present

- Develop Machine Learning based methodology to automate seafloor geomorphology mapping
- Share algorithms with the scientific community implementing the developed methods through seminars, international conferences, colloquia, etc.
- · Develop skills around reproducible research, High Performance Computing (HPC), R packages development, etc.
- Teach Statistics to university students

Data scientist (intern)

Lille University | France

Feb. - Aug. 2020

- Explanatory analysis: data wrangling, visualization.
- Dimensionality reduction: Explanatory analysis, feature selection, etc.
- Build predictive models for spatial data (interpolation, clustering, etc.)

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 a website for event equipment leasing .
- Creation of a RShiny web application for quantitative data analysis.
- · Development of a R package spatial data analysis and visualization.
- Create VBA macros that customize cover letters according to information of a job offer.

Hobbies

I like to draw, write short narrative texts/poems, read, go for a run, travel to meet people and discover new places.

github

Linkedin

Machine Learning

- Data cleaning/wrangling, Missing data imputations
 - ➤ dyplr, tidyr | Numpy, Pandas, etc.
- Regression, Classification, Clustering
 - caret | Scikit Learn, Scipy
- Data Visualization
 - ggplot2, plotly, shiny | Matplotlib, ggplot

❖ Big data

- High Performance Computing (HPC)
- Parallel computing
 - > Parallel, Multidyplr
 - **❖** Programming Languages
- R, Python, SAS
- SOL
- VBA
- LaTex

❖ Softwares / IDE

- · Rstudio RShiny, Rmarkdown, Rsweave, Flexdashboard
- Azure ML Studio, SAS Studio
- Tableau
- Gretl, Eviews, Stata, GeoDa
- Excel, PowerPoint
- · Anaconda, google colab, Jupyter Notebook, Git

❖ Databases Systems

- SQL Server
- DB Browser, PostgreSQL
- Access
- PhpMyAdmin
 - Web development
- HTML, CSS, PHP, Java Script, Bootstrap



- ❖ SAS PROGRAMMING 1: ESSENTIALS
- Python 3: Formation intensive à la programmation
 - * Machine Learning with Scikit Learn
 - * R Package development