Mathias DAH FIENON

Data Scientist, Quantitative risk modeling enthusiast with hands-on experience in building predictive models for financial risk using Python and R, and a strong interest in systemic risk and its applications in modern finance and insurance.

@ mfienon@yahoo.com   ☐ +32 485 81 68 65   in linkedin.com/in/mathiasdahfienon   ○ github.com/mdahfienon
● Louvain-la-Neuve, 1348, Belgique

💼 EXPERIENCE

Since September 2024	**Statistical consultant, SMCS-UCLouvain, Full time** ❯ Collaborated with clients on subjects like macroeconomics, financial data analysis, risk management, to define project goals and provided expert guidance on statistical methodologies. Eurpean regulation and international standards norm have been taken into account to provide insightful guidance. ❯ Analyzed complex datasets using data manipluation and statistical techniques (e.g., regression, ANOVA, time series) to derive actionable insights. Insuring statistical quality assurance of results. ❯ Developed custom statistical models and performed data visualization to communicate findings effectively to non-experts. ❯ Provided recommendations for data collection, study design, and reporting to optimize decision-making and research outcomes. ❯ Conducted training sessions on R and Python for professionals, focusing on statistical modeling, data visualization, machine learning and Artificial Intelligence in business settings. `Microsoft Teams` `Python` `SQLite` `RStudio` `JMP` `SPSS`

Teaching assistant, ISBA-UCLouvain, Full time
❯ Led tutorials and graded assignments/exams for courses covering key statistical concepts such as probability, statistical inference, point and interval estimation, hypothesis testing, modeling, regression, time series and volatility for graduate and undergraduate classes.
❯ Assisted in preparing teaching materials, including problem sets and lecture notes, to support course objectives.
❯ Prepared, organized and supervised lab sessions, guiding students in statistical software (R, Python, SQLite) for data analysis.
❯ Held office hours to provide individual academic support and clarify theoretical and applied statistics topics.

`Microsoft Teams` `Python` `SQLite` `R` `Github`

September 2023 May 2024	**Graduate teaching assistant, UCLouvain - BELGIUM, Contract** ❯ Supervised two groups of more than 20 students during pratical sessions of lecture LEPL1109 : Statistics and data science and LECGE1224 : Statistique en économie et gestion II . These sessions cover statistical inference, point and interval estimation, hypothesis testing, linear regression and non-linear regression. ❯ Supervised student's projects and hackathons. `Microsoft Teams` `Python` `SQLite` `RStudio`
October 2019 September 2021	**Statistician - Data analyst, DEPARTMENT OF NATIONAL DEFENSE - BENIN,** ❯ Designed a standardized process for operational data acquisition and management, including data quality checking, increasing the previous system efficiency by 65% ❯ Conducted data analysis and visualization on flight's mission data of the Air Force department, ❯ Presented data insight during weekly meetings with the board and proposed ways to improve flight missions. This led to interoperability efficiency between mechanics and pilote s. ❯ Provided a user-friendly and maintainable web app (using RSHINY) for data visualization, ❯ Supervised a small team. `Access` `VBA-Excel` `R (RShiny)` `PowerPoint`

📖 PERSONAL PROJECTS

❯ `Normality test` : Built a normality test web application ;
❯ `Some distributions` : A RShiny web app to display some common distribution in statistics ;
❯ `Transcriptomics app` : A Dash web application of transcriptomics data exploration ;

📖 Projects on credit risk management

- **`Credit scoring`** : Built a credit scoring model in Python ;
- **`Probability of defaut`** : Exemple of probability of defaut modeling in Python ;
- **`Loss Given Defaut`** : modeling of loss given defaut in Python ;

🎓 Education & Training

Since January 2025	**Quantitative risk analyst training - Credit risk specialization** RiskMDP Advisory - France
2024 – Now	**PhD candidate in Statistics - Dynamic risk modeling** Institute of Statistics, Biostatistics and Actuarial science (ISBA) Université Catholique de Louvain (UCL) - **Belgium**
2021 – 2024	**Master's degree in data science** focus **statistics** *Thesis topics* : Kernel independent component analysis (kernelICA) for identification of structural innovations in multivariate GARCH models Louvain School of Statistics, Biostatistics and Actuarial science (LSBA) Université Catholique de Louvain (UCL) - **Belgium**

📄 Certifications

- **`SAS ® Certified Base Programmer for SAS ® 9.`**
- **`IBM Data Engineering Professional Certificate`**

🧠 Interpersonal skills

- Inquisitive, Good communication skills, problem solving
- Self-motivated, autonomy, empathy and self-managing under pressure,
- Pragmatic, solution-oriented and can-do attitude.
- Detail-oriented control-freak as well as effective communication.

📈 Analytics skills

- Sharp analytical capabilities with ability to develop and transform concepts into pragmatic solutions,
- Business, Customer and market-oriented mindset,
- Strong understanding of data management best practices, including data quality, data security and data privacy.

🌐 Languages

French : *Native,*
English : *Professional working proficiency,*

💬 Hobbies

- Jogging, Swimming, Football, Volleyball,
- Music, Reading and Exploring.