

Financial Economist and Data Scientist with expertise in econometrics, machine learning, and business intelligence. Experienced in applying advanced quantitative methods to policy design, program evaluation, and strategic decision-making in finance and public policy. Strong background in data-driven research and international projects, combining analytical rigor with the ability to translate complex data into actionable insights.

Education

MSc, Financial Economics	2024 – 2026
<i>School of Management (ESG UQAM), Université du Québec à Montréal, Canada</i>	
Master’s, Development Economics	2022 – 2024
<i>Clermont School of Economics (CERDI), Université Clermont Auvergne, France</i>	
Bachelor, Economics & Management	2018 – 2021
<i>Faculty of Economics and Management, Hassan II University, Casablanca, Morocco</i>	

Work Experience

Data Analyst & Research Assistant	Mar. 2024 – Aug. 2024
<i>Orange Innovation, Paris, France</i>	
<ul style="list-style-type: none"><li>Analyzed and processed big data with Python &amp; R, improving the accuracy and robustness of research outputs.</li><li>Built an OCR-based solution (PDF and image scraping) to automate client data extraction and populate a centralized database, eliminating manual file-by-file processing.</li><li>Designed and implemented impact evaluation frameworks (RCT, DID, IV, RDD) to rigorously assess digital services.</li><li>Designed and developed survey questionnaires (quantitative and semi-structured) to ensure high-quality household-level data collection and analysis.</li></ul>	
Statistician and Research Assistant	May 2023 – Jul. 2023
<i>Laboratory for Statistical Analysis Applied to Economic Research, Casablanca, Morocco</i>	
<ul style="list-style-type: none"><li>Analyzed socio-economic determinants of urban water consumption, supporting research on sustainable resource management.</li><li>Conducted literature reviews and built empirical indicators integrated into a comparative database.</li><li>Cleaned and preprocessed survey datasets (R &amp; Stata) to ensure the robustness of econometric models.</li><li>Performed chi-square tests and estimated logit/probit models to generate results for policy recommendations.</li></ul>	
Teaching Assistant	Dec. 2024 – Apr. 2025
<i>Université du Québec à Montréal, Montreal, Canada</i>	
<ul style="list-style-type: none"><li>Graded undergraduate-level assignments and exams in macroeconomics, ensuring academic rigor and consistency.</li><li>Proctored midterm and final exams for a large student cohort.</li></ul>	
Private Tutor in Statistics (Bachelor level)	Feb. 2023 – May 2023
<i>Anacours, Clermont-Ferrand, France</i>	
<ul style="list-style-type: none"><li>Provided individualized tutoring in economics and management, adapting lessons to students’ academic needs.</li><li>Taught fundamental concepts of descriptive statistics and applied them in practical exercises.</li><li>Guided students in interpreting tables and graphs, helping them build independent analytical skills.</li></ul>	
Data entry	Jan. 2025 – Apr. 2025
<i>Université du Québec à Montréal, Montreal, Canada</i>	
<ul style="list-style-type: none"><li>Entered and centralized faculty publications in collaboration with the Rectorate, strengthening institutional research visibility.</li><li>Contributed to the creation of a research database for ESG UQAM, facilitating access to faculty outputs.</li></ul>	

## Projects

- Macroeconomic Time Series Forecasting**  
Built ARIMA models in R to forecast the dynamics of key macroeconomic indicators.
- Chinese Financial Flows and Economic Growth in Recipient Countries**  
Assessed the impact of Chinese financing on economic growth using econometric analysis.
- Geospatial Analysis of Conflict Data**  
Developed Python-based tools to map high-intensity conflict zones and track their spatio-temporal evolution.
- TSLA 2024 – Heikin-Ashi + Ichimoku + VWAP**  
Built interactive visualization with Heikin-Ashi candles, Ichimoku Cloud, anchored VWAP, Stochastic & OBV.
- Canada Housing Analytics**  
Developed R Shiny dashboard analyzing rental market trends across Canada using Statistics Canada data.
- Portfolio Website**  
Full list of projects, codes, and interactive apps.

## Certifications

- 2024    Project Monitoring and Evaluation, **AFD**
- 2023    Data Science with R, **DataCamp**

## Technical Skills

- **Programming:** Python, R, SQL, Stata, MATLAB,  $\LaTeX$
  - **Data Analysis:** pandas, NumPy, scikit-learn, statsmodels
  - **Visualization:** matplotlib, seaborn, Power BI, QGIS
  - **Time Series:** ARIMA, VAR, Forecasting
  - **Machine Learning:** Regression, Classification, Trees, SVM, Random Forests, XGBoost, LightGBM, Clustering, PCA, Deep Learning
- **Financial & Technical Analysis:** Candlesticks, Heikin-Ashi, Ichimoku Cloud, Bollinger Bands, Moving Averages (EMA/SMA), RSI, MACD, VWAP, Stochastic, OBV
  - **Tools & Data Engineering:** Git, Jupyter, VS Code, PyCharm, MySQL, PySpark

## Interpersonal Skills

- Communication
  - Adaptability
  - Teamwork
  - Leadership
- Creative Problem Solving
  - Critical Thinking
  - Project Management
  - Analytical Mindset
- Collaboration & Mentoring
  - Cross-Cultural Awareness

## Awards & Scholarships

- 2023            Erasmus International Mobility Grant for Internship
- 2023–2024    Merit Scholarship IDGT SFRI CAP 20-25
- 2022–2024    ANAB (Nigerien Agency for Scholarships and Grants): Master’s scholarship

## Languages

**French:** Native    **English:** Fluent    **Hausa:** Native

## Activities and Interests

- **President, 10th Scientific, Sports, and Cultural Week (2021):** Oversaw coordination, logistics, and partner engagement.
  - **Member, Department of Economics Program Committee (2024 – Present):** Student representative on course structure, assessment, and admissions; collaborated with faculty and administration.
  - **University Chess Club Member; Basketball and Football Team Member .**

## References

Available upon request.