

Bana Nadège SABI DJESSOU

*Econometrics | Applied
Economics | Quantitative
Research*



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📍 Marseille, France

PROFILE

Master's graduate in Econometrics and Statistics (Research Track) from Aix-Marseille School of Economics, with training in econometrics, statistical modelling and quantitative economic research. Experienced in analysing large-scale international and longitudinal datasets using R, Python and Stata, with a focus on panel-data modelling, heterogeneous effects and robustness analysis. Interested in applied economic research on productivity, digitalisation, technological change and their economic effects.

EDUCATION

Master's Degree in Econometrics and Statistics - Research Track,
Aix Marseille School of Economics (AMSE)
2025 – 2026 | Marseille / France

Master's Degree in Econometrics and Statistics - Year 1, AMSE
2024 – 2025 | Aix-en-Provence / France
Highest Honors

Bachelor's Degree in Statistics, National School of Applied Economics and Management (ENEAM)
2018 – 2022 | Cotonou
Highest Honors

Portfolio & Networks

GitHub [🔗](#), Project Portfolio

LinkedIn [🔗](#)

RESEARCH EXPERIENCE

Master's Research Thesis - Econometric & Statistical Modelling,
Aix-Marseille School of Economics
09/2025 – 07/2026 | Marseille/France

Mobile Connectivity, Informational Frictions and Total Factor Productivity

- Investigated the relationship between mobile connectivity and Total Factor Productivity using international panel data covering 118 countries over 2014–2024.
- Applied Quantile-on-Quantile Regression to investigate heterogeneous relationships across different levels of the variables.
- Integrated economic, technological and human-capital indicators from international databases.
- Conducted statistical analysis, model estimation, robustness checks and interpretation of heterogeneous effects.
- Used R for data preparation, statistical modelling and visualization.

Research Intern, Aix-Marseille University
06/2025 – 08/2025 | Marseille, France

- Implemented Random Forest-based clustering in R to identify patterns in complex data.
- Assessed model robustness using proximity-matrix analysis.
- Conducted data analysis and interpreted statistical results.

RESEARCH PROJECTS

Traffic Classification and Forecasting (R)

- Predicted traffic for a culinary website using regression and classification techniques.
- Identified key variables influencing audience levels, helping refine demand-forecasting models.

Sentiment Analysis on Financial Tweets - NLP & Deep Learning - Python

- Implemented Transformer models (BERT) to classify thousands of financial tweets into positive, negative and neutral sentiment.
- Optimised text preprocessing (tokenization, encoding) and evaluated model performance using F1-score and ROC curves with cross-validation.
- Collaborated in a three-person team and presented the results during an oral defence.

Statistical and Econometric Analyses (STATA)

- Examined trends in crime in France (2012–2021) and analyzed determinants of global GDP growth (2000–2023).
- Modeled the impact of education and institutional trust on GDP per capita using multivariate regressions.
- Produced descriptive analyses and rigorous visualizations to support macroeconomic conclusions.

Environmental & Climate Data Analysis - R, ERA5

- Analysed the impact of the 2022 extreme heatwave in Italy by combining ERA5 meteorological data with national excess-mortality data.
- Investigated the relationship between weather conditions and mortality through statistical analysis.
- Produced choropleth maps to identify and communicate spatial patterns.

Spatial Data Analysis & Interactive Visualisation - R, Shiny, Leaflet, NHGIS

- Analysed demographic and spatial data covering 3,143 U.S. counties.
- Developed an interactive Shiny application for spatial data exploration and visualisation.
- Produced spatial indicators and interactive maps to support the interpretation of geographical heterogeneity.

PROFESSIONAL EXPERIENCE

Training & Capacity-Building Assistant, TECHNO STAT-BTP Consulting Firm
09/2023 – 03/2024 | Cotonou, Benin

- Designed Power BI dashboards to support data-driven decision-making.
- Trained teams in digital data collection using KoboCollect.
- Supported the organisation and interpretation of collected data.

SKILLS

Statistical modelling : Regression, panel-data analysis, quantile regression, time-series analysis, statistical inference, model evaluation

Econometrics: Panel-data analysis, multivariate regression, heterogeneous-effects analysis, statistical inference, robustness analysis

Machine Learning : Supervised and unsupervised learning, Random Forest, clustering, NLP, Deep Learning, BERT

Spatial & Environmental Data : Spatial analysis, ERA5 climate data, choropleth mapping, interactive geovisualisation

Programming & Data : R, Python, SQL, Stata, SPSS, Power BI

Tools: R Shiny, Leaflet, GitHub

Intern - Tii mnru Project, DEDRAS/Nikki NGO

07/2023 – 09/2023 | Nikki, Benin

- Monitored project performance using KPIs and activity-monitoring dashboards.
- Structured a savings group and audited its financial transparency.

Intern, Directorate General of the Economy (DGE)

03/2023 – 06/2023 | Cotonou, Benin

- Coordinated field data collection on fuel prices.
- Centralised data flows into a historical database for subsequent econometric analysis.

LANGUAGES

English	French
Upper-intermediate (B2)	Native

CERTIFICATIONS

SQL for Data Analysis	Data Visualization with Power BI
Udemy, 2026.	Udemy, 2026.

Interests

Reading, Cooking, Hiking

Organizations

Secours Catholique Caritas France, Volunteer

12/2024 – Present | Aix-en-Provence, France

- Coordinated the planning and implementation of event-based reception services.
- Organised resource distribution and managed beneficiary flows.