

AYODELE IDOWU

Göttingen, Lower Saxony, Germany
ayodele.idowuu@gmail.com • +49 176 69339376
[LinkedIn](#) • [GitHub](#) • [Google Scholar](#) • [Professional Website](#)

EDUCATION

UNIVERSITY OF GÖTTINGEN

MSc Development Economics
Fully Funded DAAD Scholarship

Göttingen, Germany

Oct 2024 – Sep 2026

MSc Thesis: Environmental Policy Enforcement in Global Supply Chains: An Analysis of Trade Transshipment and Policy Circumvention under the EU Deforestation Regulation

FEDERAL UNIVERSITY OF AGRICULTURE, ABEOKUTA

BSc (Hons) Economics
Second Class Upper Division (Top 5% of Class)

Ogun State, Nigeria

Jan 2016 – Feb 2020

RESEARCH INTERESTS

Development Economics, Environmental Economics, Agricultural Economics, Econometrics, Machine Learning

WORK EXPERIENCE

UNIVERSITY OF GÖTTINGEN

Research Assistant

Göttingen, Germany

Apr 2025 – Present

Chair of Food Economics and Policy - Department of Agricultural Economics and Rural Development

- Conduct rigorous quantitative analysis in R, Python, and Stata to support empirical research on environmental and agricultural policy, international trade, and market dynamics, applying panel data methods, causal inference techniques, and econometric modelling.
- Design and implement end-to-end empirical research workflows, including data collection, cleaning, and causal econometric analysis using difference-in-differences, event study, and quasi-experimental designs to evaluate policy outcomes in environmental and agricultural economics.
- Contribute to econometric modelling, heterogeneity analysis, and interpretation of empirical results for peer-reviewed journal publications, with hands-on application of panel data estimators, instrumental variables, and causal machine learning methods including causal forests.
- Conduct systematic literature reviews in environmental economics, agricultural policy, and international trade to inform empirical research design, identify knowledge gaps, and situate findings within current academic debates.

TNI THE NETWORK INC.

Data Scientist (Remote)

British Columbia, Canada

Jan 2023 – Dec 2024

- Improved operational efficiency by 15% and boosted revenue by 10% in the first year through data systems and analytics that supported performance metrics and A/B testing for informed decision-making.
- Developed machine learning models using high-quality datasets, increasing campaign and ROI predictive accuracy from 67% to 82% across key production models for market and financial analytics.
- Built a series of dashboards, analytical reports, and market analyses each quarter using Python, R, SQL, and Power BI, streamlining reporting and driving data-driven business strategies.
- Built and deployed NLP and time-series Machine Learning models to predict donor attrition, reducing churn by 40% across OXFAM, UNICEF, and the Red Cross, and enabling geospatial optimization to assign field representatives.

NOVARTIS – SUB-SAHARAN AFRICA DIVISION

Research Data Analyst (Promoted from Junior Data Analyst)

Lagos, Nigeria

Mar 2020 – Dec 2022

- Presented complex findings and data narratives to non-technical stakeholders, translating insights into clear implications and actionable recommendations for business improvement.

- Spearheaded a quarterly research initiative that consolidated multi-country data for analysis, driving strategic enhancements that increased annual revenue by more than 14%.
- Developed KPIs and predictive models using Python and Tableau, reducing medication non-adherence by 30% while improving patient outcomes and lowering costs.
- Partnered with cross-functional teams to deliver accurate data-driven reports that guided management decision-making.

PUBLICATIONS

Fiankor, D.-D. D., Idowu, A., Dalheimer, B. (2026). Trade Policy and the Resilience of European Land Systems. *(Manuscript in preparation)*

Idowu, A. & Adonteng, O. K. (2025). Are Carbon Leakages Traceable to EU Environmental Policy Stringency? Empirical Evidence from Selected EU Countries and Their External Trading Partners. *International Economics and Economic Policy (forthcoming)*

Chowdhury, M. A., Idowu, A., Ajayi, F., & Rahmawati, Y. (2025). [Economic Complexity and Its Role in Shaping Renewable Energy Consumption Patterns in South Asia](#). Working Paper. Available at SSRN 5240104. *(under review at Asia and the Global Economy)*

Idowu, A., Chowdhury, M. A., Rahman, H., & Bello, ME. (2024). [Exploring the Dynamics of Economic Instability: An Analysis of the Interplay between Consumer Spending, Consumer Confidence, and Macroeconomic Factors](#). *International Journal of Economics*, 3(1): 10-25

Idowu, A., Ohikhuare, M., & Chowdhury, M. A. (2023). [Does Industrialization Trigger Carbon Emissions Through Energy Consumption? Evidence from OPEC and High Industrialized Countries](#). *Quantitative Finance and Economics*, 7(1): 165-186. Doi: 10.3934/QFE.2023009

Idowu, A. & Collins, T. (2021). [Modelling Disaggregated Government Expenditure and Manufacturing Sector Performance and their Influence on Economic Performance](#). *Journal of Applied Economic Research*, 4(3), 10-22

Idowu, A. (2021). [Econometric Modelling and Forecasting Foreign Direct Investment Inflows in Nigeria: ARIMA Model Approach](#). *Economic Forecasting*, 2(3), 20-35

TEACHING EXPERIENCE

FEDERAL UNIVERSITY OF AGRICULTURE, ABEOKUTA **Ogun State, Nigeria**
Teaching Assistant – Econometrics Tutorial 2019 – 2020

- Conducted tutorial sessions for 500-level students in Econometrics, Department of Agricultural Economics.
- Assisted students with econometric theory, STATA applications, and practical problem-solving.

FEDERAL UNIVERSITY OF AGRICULTURE, ABEOKUTA **Ogun State, Nigeria**
Peer Instructor – Departmental Group Study 2018 – 2019

- Led study group sessions for 400-level peers in Advanced Macroeconomics.
- Facilitated collaborative learning and clarified complex economic theories for examination preparation.

CONFERENCES AND SEMINARS

- Nigeria Economics Society Annual Conference – "Nigeria's Development Trajectory in the 21st Century
Lagos, Nigeria – Oct 10-12, 2023
- Conference on Data Science for Business – "Predictive Modeling for Customer Churn in E-commerce."
Data4Business Institute, Lagos, Nigeria – Aug 8-10, 2022

CERTIFICATIONS

- [DAAD LEAD! Scholarship Holders Summer School – Grade: Very Good \(Highest Grade\)](#) Apr 2025 - Mar 2026
- [R for Data Science – IBM Professional Certification](#) Jan 2025
- [Machine Learning with Python – IBM Professional Certification](#) Jan 2025
- [SQL and Relational Databases – IBM Professional Certificate](#) Jan 2025
- [Boolean Logic in Python – Microsoft Certification](#) Aug 2024
- [Python for Data Visualization – LinkedIn Learning](#) Jul 2022

SKILLS

Technical Skills: Data Analysis, Python, R, STATA, SQL/BigQuery, Power BI, Tableau, Excel, Git, MAXQDA, Google Earth Engine, DAX, RMarkdown, Looker Studio, ETL, Microsoft Office, Advanced Excel

Soft Skills: Communication, Time Management, Teamwork, Problem Solving, Critical Thinking

SELECTED DATA SCIENCE PROJECTS

- [Machine Learning for Migration Analysis and Gold Price Forecasting](#) Feb 2026
- [Global Real-Time Migration Pressure Index \(RMPI\) Web App Using Machine Learning](#) Oct 2025
- [Rumor Detection System Using Machine Learning and Text Classification in Python](#) Jan 2025
- [Donor Acquisition Strategy Analytics for TNI Inc. Using Python, R, SQL, and Power BI](#) Jun 2024
- [US Population and Migration Trends Analyzed with Interactive Dashboards in Power BI](#) Apr 2022
- [Global COVID-19 Spread Analysis with Time-Series Modeling in Python](#) Feb 2021

VOLUNTEERING

OPTIMAL LIVELIHOOD FOUNDATION

Member & Development Research Analyst

Lagos, Nigeria

2023 – 2024

ROTARY CLUB OF LAGOS (YOUTH INTERACT CLUB)

Member and President for Secondary School Students

Lagos, Nigeria

2009 – 2011

AWARDS AND HONORS

- Top-Performing Student in Machine Learning in Economics and Business – Perfect Grade (1.0) in Live Coding Examination – University of Göttingen WS25/26
- [TNI Network Inc., BC, Canada – Rookie of the Year Award – Best-Performing Employee of the Year](#) Dec 2023
- President, Rotary Club (Youth Interact Club), Mushin Division – Lagos Secondary Schools 2009 – 2011

LANGUAGE

- English (Native)
- [German \(B1\)](#)

REFERENCES

[Prof. Dela-Dem Doe Fiankor](#)

University of Göttingen

Chair of Agricultural Economics and Food Policy

Department of Agricultural Economics and Rural Development

deladem.fiankor@uni-goettingen.de

[Dr. Zaneta Kubik](#)

University of Göttingen

Researcher at the Chair of International Economic Policy

Department of Development Economics

zaneta.kubik@uni-goettingen.de