

AYODELE IDOWU

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EDUCATION

UNIVERSITY OF GÖTTINGEN

MSc Development Economics

Fully Funded DAAD Scholarship

Göttingen, Germany

Oct 2024 – Sep 2026

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; Chair of Information Management

- Conduct qualitative interview coding using MAXQDA and complementary quantitative analysis in R, Python, and STATA for research on economic policy and international market dynamics.
- Develop and implement end-to-end data collection, cleaning, and quantitative analysis workflows to support empirical research in digital health and smart cities, agricultural and environmental economics.
- Support econometric and machine learning modeling and interpretation of empirical results for journal publications.
- Perform literature reviews using public records and prior studies from relevant journals to inform research design.

TNI THE NETWORK INC.

British Columbia, Canada

Data Scientist (Remote)

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

Lagos, Nigeria

Research Data Analyst (Promoted from Junior Data Analyst)

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

- [2025 DAAD LEAD! Summer School for Leadership for Africa Scholars](#) Sep 2025
- [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

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|--|----------|
| • Global Real-Time Migration Pressure Index (RMPI) Web App Using Machine Learning | Oct 2025 |
| • Machine Learning Model Predicting EPL 2025/26 Season Outcomes Using Python | Aug 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	Lagos, Nigeria
<i>Member & Development Research Analyst</i>	2023 – 2024
ROTARY CLUB OF LAGOS (YOUTH INTERACT CLUB)	Lagos, Nigeria
<i>Member and President for Secondary School Students</i>	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
dela-dem.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