Eleojo Oluwaseun Abubakar

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Professional overview

I am proficient at implementing a wide variety of quantitative data analytics techniques ranging from statistical to machine learning approaches. My work involves the development of various types of models including descriptive, predictive, and prescriptive ones. My main workhorse is the R programming language which is complemented with python and SQL to enable me efficiently to handle large and big data with diverse levels of complexity. I hold a PhD degree in quantitative human geographer, specialising in health geography. Therefore, I am adept at analysing tabular and geographic data including those from administrative sources, sample surveys and satellite imageries.

I am interested in senior positions as a **Data Scientist**, **Data Science Consultant**, **Machine Learning Engineer, GIS developer** or other similar roles. Overall, I have at least 15 years of hands-on experience as a quantitative data analyst. In the last 5 years I have worked on a variety of projects requiring contemporary data science methods. I am open to full-time, contract, part-time and temporary job types. Remote or Hybrid jobs will be very much appreciated, and I am happy to relocate to any work location with an attractive employment offer.

Data Science Skills

- Advanced programming skills in R for social and spatial data science, as well as appreciable programming skills in Python 3.6, stata and SQL for statistics, big data analytics and (spatial) data science, including machine learning applications.

- To develop programming scripts to address relevant data science problems, I use various Integrated Development Environments (IDEs) and versioning tools, including R Studio, Pycharm, Visual studio code, and Git.

- Advanced knowledge and empirical skills in a variety of statistical analyses of various data types, such as administrative data, survey data (cross-sectional or longitudinal) and time series data, including relevant data linkages.

- Adept at using various specialist statistical data analysis software, including Stata 16, IBM SPSS 26, and JMP Pro 16. Where necessary, I automate my data processing workflows with relevant scripts and macros.

- Hands-on experience in producing professional statistical reports, tables, charts, infographics and dashboards using relevant programming languages (like ggplot2, matplotlib and seaborn) and a variety of specialist software such as Microsoft Power BI Desktop and Tableau.

- Extensive experience in using various GIS and remote sensing software including ArcGIS Desktop 10.8, ArcGIS Pro 2.5, QGIS Desktop 3.16, Clark Labs Terrset 18.30, ERDAS Imagine 2015,

Exelis ENVI 5.3, including the automation of processing workflows using relevant geoprocessing models and scripts.

- Very experienced and proficient in many geographic data analyses and mapping applications including map making, digital image processing (for remote sensing), transportation network analysis, service/sales area analysis, location-allocation modelling, geodemographic classification/profiling, multi-criteria Evaluation and so on.

- Competent in (Spatial) Database Management Systems including the use of relevant software like Microsoft Access 2019, MySQL Workbench 6.3, and PG Admin IV (PostgreSQL).

Other Skills and Competencies

- Proficient in the use of the Microsoft Office Suite 2021, especially Word, PowerPoint, Excel, Access, Outlook and OneNote as well as other research-related software like EndNote 9 and Adobe Acrobat Pro DC.

- With keen attention to details coupled with my ability for independent work, I can deliver excellent results in a timely fashion, with minimal supervision.

- Ability to produce quality written reports and make good presentations to both professional and lay audiences.

- My proven time management skills enable me to efficiently manage multiple workloads to deliver results to specified deadlines amidst conflicting priorities.

- I have good interpersonal skills which helps me to network, collaborate, negotiate, and thus establish productive work relationships with both colleagues and outsiders including people of diverse cultural backgrounds.

Recent work experience

Research Fellow in Social Data Science *School of Social and Political Science* *University of Edinburgh, UK* *EH8 9LN, City of Edinburgh,* *United Kingdom*	September 2022 – date

Responsibilities

- Manage, manipulate, and analyze longitudinal and health datasets to explore area-level determinants of clustering in complex multi-morbidity and resulting inequalities.

- Undertake theory-led multivariate statistics (e.g. multilevel models) and data-led machine learning techniques (e.g. Random Forest and artificial neural networks)

- Collect, manipulate, and integrate small area environmental datasets pertaining to local drivers of multi-morbidity clusters.

- Contribute to/lead the writing of academic publications and further research proposals in collaboration with the Principal Investigators.

- Disseminate research findings through academic conferences, workshops, community events, web page development, and other outlets.

Geographic Information Systems (GIS) Specialist *Cathie Associates Limited* *Solomon House, 2-4 Hanover Square,* *Newcastle upon Tyne, NE1 3NP,* *United Kingdom*	June 2022 – September 2022

Responsibilities

- Provided geospatial information support to various engineers working in the offshore energy sector, including through desktop studies.

- Performed diverse spatial data management tasks relevant to ongoing business operations of Cathie.

- Used python programing language and the arcpy module to develop many arctools (and scripts) to automate routine and complex geoprocessing workflows of the company.

- Conducted a wide variety of spatial analysis and mapping tasks, including Cable Burial Risk Assessment, Site Suitability Assessment for wind energy farms and cable landfalls, Environmental Impact Assessment and other spatial decision support scenarios relevant to Cathie's clients.

- Produced high-quality maps and figures as well as published web GIS products for Cathie's clients.

Visiting Research Associate in Urban Studies **Research Data Analyst** *GCRF Centre for Sustainable, Healthy and Learning Cities and* *Neighbourhoods (SHLC),* *School of Social and Political Sciences,* *University of Glasgow, G12 8RS,* *United Kingdom*	April 2022 – September 2022 October 2021 – March 2022

Responsibilities

- Cleaned and curated complex survey data collected by the SHLC from fourteen cities in seven countries in Africa and Asia. This entailed ensuring compliance with metadata standards and interoperability across a range of systems.

- Using relevant modules in stata and R, performed a variety of quantitative and spatial analysis to meet the objectives of SHLC.

- Analysed the survey data including fitting a variety of statistical and machine learning models to meet the objectives of the SHLC project.

- Conducted research works and documented outputs in subject and study areas relevant to the SHLC project.

Senior Research Assistant in Spatial Data Analytics *Newcastle Business School,* *Faculty of Business and Law,* *NE1 8ST, Northumbria University,* *Newcastle upon Tyne, UK*	November 2020 – January 2021

Responsibilities
- Supported the project team in quantitative and spatial data analysis for the *research project 'Empirical Analysis of the relationship between deforestation and health outcomes'*.

- Estimated and mapped yearly forest loss for small administrative areas in Nigeria and Tanzania.

- Merged/linked the small area estimates with relevant panel/sample survey data of the study areas to enable further econometric analysis.

- These tasks entailed extensive use of the python programming language, including the arcpy, pandas and other requisite libraries.

Education

Newcastle University, UK • *PhD Human Geography* • *PG Certificate in Research Training in Social Sciences*	October *2016 – September 2020*
Obafemi Awolowo University (OAU), Ile-Ife, Nigeria • *MSc. Remote Sensing and GIS (Merit)*	March 2010 – January 2013
University of Leeds, UK • *MSc. Geographical Information Systems (GIS) (Distinction)*	September 2011 – August 2012
Federal University of Technology (FUT), Minna, Nigeria • *B/Tech. Geography with Remote Sensing* *(Second Class Honors, Upper Division)*	March *2002* – September 2007

References

Available on request