ZARA SARI

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PROFILE

Statistician with 10+ years of experience delivering data-driven solutions across government, healthcare, and regulated environments. Expertise in statistical modelling, dashboard development, and designing reproducible SQL and Python pipelines that ensure data integrity, governance, and informed decision-making. Proven ability to structure complex datasets, translate analytical challenges into actionable insights, and communicate statistical findings clearly to both technical specialists and senior non-technical stakeholders.

TECHNICAL SKILLS

Programming: R, Python, SQL, Power BI, Qlik Sense, SPSS, QGIS

Methods: Statistical Modelling, Data Visualisation, Machine Learning, Big Data

Industry Experience: Healthcare, Government, Business Analytics, Environmental

EMPLOYMENT

Statistician   Mar – May 2025

Department for Environment, Food and Rural Affairs (DEFRA)

- Led pay equity analysis across protected characteristics (gender, ethnicity, age, etc.)
- Delivered insights through dashboards supporting fairness and policy decision-making

Statistician   Feb – Mar 2025

Office for National Statistics (ONS)

- Validated population estimates using large linked administrative datasets
- Assessed data quality issues including missingness, duplicated records
- Built reproducible R/Python workflows to support transparent, auditable analysis

Environmental Statistician   Nov 2023 – Aug 2024

Map Impact

- Conducted geospatial and remote sensing analysis using QGIS and Python, working with satellite-derived environmental datasets (NDVI, NDWI, LAI)
- Performed spatial joins and geographic aggregation, including aggregating hex-grid habitat data to local authority boundaries to support place-based analysis
- Integrated geospatial features with statistical analysis, including correlation analysis to explore relationships between temperature and algal bloom activity
- Cleaned, validated, and standardised spatial datasets to ensure consistency across geographic units and reporting outputs

Statistician - Reporting Analyst   May 2021 – Jul 2022

UK Health Security Agency (UKHSA)

- Automated weekly COVID-19 statistical reports for NHS Test and Trace (England)
- Queried large NHS datasets with SQL; built R pipelines for surveillance

Statistician/ Data Scientist   Jan – May 2021

Freshminds

- Contract role for a digital education and course provider company (confidential)
- Revised product pricing using statistical methods to assist the sales department

Analyst Statistician   Sep – Dec 2020

OBH (Outcomes Based Healthcare)

- Extracted, cleansed and analysed data from electronic health records (EHRs)
- Produced visual representation of NHSE - NHS Digital data and EHRs
- Used modelling and forecasting tools to predict mortality risk of COVID-19

Senior Data Analyst   Aug 2019 – Feb 2020

Domestic and General

- Built Power BI dashboards and applied statistical methods to customer churn data

Data Science Project Lead (Voluntary)   Jan 2018 – Jan 2023

DataKind UK Charity and Sobus

- Led a team of Data Scientists to deliver project for Sobus (mental health charity)
- Provided actionable insights using charity and ONS data

Analyst Statistician   Mar 2014 – Apr 2019

Thatcham Research

- Published paper on a large project which proved cars with Autonomous Emergency Braking are safer by modelling motor insurance claims (in SPSS)
- Built Qlik Sense dashboards tracking monthly industry safety trends (ONS data)
- Analysed, standardised and manipulated large databases, providing insight that solves real world problems and influences decisions (Query data via SQL).
- Communicated complex data insights to non-technical audiences via PowerPoint

EDUCATION

Team Leadership Certificate   2018

Newbury College, Distance Learning Course

MBA International   2012 – 2013

Anglia Ruskin University, London campus

MSc Statistics with Medical Applications   2010 – 2011

University of Sheffield

- Statistical risk-prediction modelling for lung cancer using clinical datasets.

BSc (Hons) Actuarial Science   2003 – 2006

University of Kent