

DATA SCIENTIST WITH EXPERIENCE IN HEALTHCARE, SPORTS ANALYTICS, AND SOCIAL SCIENCE

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# **Professional Summary**

I am a data scientist based in London, currently working for the NHS South, Central and West CSU in Population Health Management. I am interested in using causal inference and machine learning to help create actionable insights and shape business decisions.

### Education

University of Houston Houston, TX

POLITICAL SCIENCE MA 2017 - 2020

University of Southampton Southampton, UK

GLOBAL POLITICS MSC 2011 - 2012

University of Sussex

POLITICS BA HONS

Brighton, UK

2008 - 2011

# Work Experience

Principal Data Scientist Remote

NHS South, Central & West 2021 - Present

- Providing technical expertise in analytics and research-focused projects across the organization, including experimental and observational analysis of healthcare interventions
- Building and deploying machine learning models that forecast the daily event counts in A&E and other Urgent and Emergency Care Services
- Leading the development of organisational expertise in data science, including demonstrating and training colleagues in statistics, machine learning, and programming
- Supporting the development of the organisation's infrastructure for developing and deploying data science.

Associate BI Consultant Remote

NHS SOUTH, CENTRAL & WEST 20

- Led research on the wider determinants of health inequalities and the role of deprivation in health outcomes
- Supported the Population Health Management team with research design, statistical modeling, and communication and visualization of findings
- Leading the development of organisational expertise in data science, including demonstrating and training colleagues in statistics, machine learning, and programming
- · Supporting the development of the organisation's infrastructure for developing and deploying data science

Graduate Research Assistant Houston, TX

Built natural language processing models for research into political language in legal texts

- Supported the Population Health Management team with research design, statistical modeling, and communication and visualization of findings
- · Supported the Political Party Database Project in the administering of the expert survey and maintenance of the project website

#### **Graduate Teaching Assistant**Houston, TX

University of Houston

UNIVERSITY OF HOUSTON

2017 - 2019

London, UK

2018 - 2020

Courses: Intro to Comparative Politics, Mexican Politics, Comparative Elections, Media & Politics

## Fundraising Manager: Product Innovation

ARIE CURIE 2016 - 2017

- Managed Marie Curie's biggest regular fundraising campaign (Fundraising My Way)
- Assisted the development of new fundraising products and the innovation of existing campaigns

#### **Events & Corporate Fundraiser**

London UK

WORLD CHILD CANCER 2015 - 2016

- Developed, recruited, and managed the charity's largest charity event to-date (Kilimanjaro trek) and various major events (Ride 100, Great North Run)
- · Supported the Head of Corporate Fundraising in the successful corporate partnership with Deutsche Bank

# **Further Work Experience**

Events Coordinator London, UK

FAMILY FOR EVERY CHILD 2014 - 2015

Oncology Outpatient Clerk

**nt Clerk** Southampton, UK

University Hospital Southampton 2013 - 2014

**Income Management Assistant** 

University Hospital Southampton 2012 - 2013

Skills\_

**ANALYTICS** 

Statistics (Frequentist & Bayesian), Data Visualisation, Causal Inference, Machine Learning, Forecasting

**PROGRAMMING** 

Python, R, SQL

**PACKAGES** 

tidyverse, tidymodels, fable, lme4, brms, rstanarm, Shiny, pandas, sklearn, Optuna, spaCy, keras

**Tools** 

Git, Docker, Quarto, GitHub Actions, DVC, RStudio Workbench & Connect

## Publications & Selected Research \_\_\_

#### The Nationalization of Mexican Parties

Politica y Gobierno 27 (2)

P JOHNSON & F CANTU

2020

Southampton, UK

• Measuring the static and dynamic nationalization of Mexican parties, and the importance of national, state, and district factors in explaining the variance of the parties' electoral support.

#### **Hypothesis Testing for Reliability Statistics: A Permutation Approach**

P JOHNSON & J KIRKLAND

• Using a series of Monte Carlo studies to demonstrate how researchers can leverage permutation approaches to hypothesis testing for evaluating the statistical reliability of a latent scale.

### References\_

• Available on Request