



Christian Payne

DATA SCIENTIST AND OPERATIONAL RESEARCHER

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About Me

I am a data scientist with experience working within agile data science teams to deliver impactful insights from sensitive data at pace.

Education

London School of Economics and Political Science (LSE)

London, U.K

MSC POLITICAL ECONOMICS

2019 - 2020

- A quantitative course in economics and politics with a focus on research design and statistical modelling
- Courses include: Applied Regression (Distinction), Causal Inference (Distinction), Game Theory (Merit), and Applied Machine Learning for Social Scientists (Merit)
- Overall Grade: Merit

University of Winchester (with a semester at Westminster College, U.S.A)

Winchester, U.K & Missouri, U.S.A

BA (HONS.) PHILOSOPHY, POLITICS, AND ECONOMICS (MAJOR: ECONOMICS)

2016-2019

- Final Year Modules: Public Economics, International Economics, and Politics of the Post-Crash Economy
- Dissertation: An econometric evaluation of the Mincer model of earnings determination as a factor behind the UK gender pay gap (Top economics dissertation of the year)
- Overall Grade: First Class Honours (US GPA: 3.93)

Experience

Higher Data Scientist

London, U.K

HOME OFFICE

2022 -

- Promoted to lead analyst for domestic homicide within the Domestic Abuse team.
- Primarily working with other analysts to provide analytical support to policy customers through modelling and data analysis.
- Also providing persistent data science resource across the Drugs, Exploitation, and Abuse (DEAA) unit covering all crime areas.
- Doubled badged as a member of the Government Statistical Service (GSS) and Government Operational Research Service (GORS).

Statistician

London, U.K

HOME OFFICE

2021 - 2022

- Worked as an analyst within the Domestic Abuse (DA) and Violence Against Women and Girls (VAWG) research team.
- Provided statistical support to the Domestic Abuse team with a particular focus on domestic homicide.
- Provided statistics for briefing materials for Ministers, QA of economic modelling, and data analysis.

Summer Research Intern

London, U.K

INSTITUTE FOR ECONOMIC AFFAIRS

2019

- Interned at the institute in Westminster for a month.
- Primarily worked on research projects alongside other interns.

Research Apprentice

Winchester, U.K

CENTRE FOR ENGLISH IDENTITY AND POLITICS

2018

- Selected for the competitive Winchester Research Apprenticeship Programme (WRAP).
- Assigned to work for 3 months alongside Prof. John Denham on a project examining ethnic diversity within St. George's day promotional materials.
- This project primarily involved collecting data, conducting analysis, and writing a research report.

Technical Skills

Programming Languages

R – Python – SQL – HTML – Bash

Software

RStudio – PostgreSQL – DBEaver –
PGAdmin – Spyder – GitLab – Jira

Other

Git – Markdown – LaTeX

Memberships and Awards

2022 Member

*Operational
Research Society*

2021 Fellow

*Royal Statistical
Society*

2018 Winchester Scholar

*University of
Winchester*

2018 Richard B. Koch Essay Prize (Finalist)

*Institute for
Economic Affairs*

Portfolio Projects

Premier League Match Prediction

- Built a premier league football match prediction model using web scraped data.
- This involved building a reproducible data engineering pipeline and training a result classification model.

UK Election Forecasting

- Worked on a model to predict the outcome of a future UK general election.
- This project involved the matching data from multiple sources and building a model.

Lord Of The Rings Character Network Analysis

- Created a LOTR character network analysis using the Spacy entity detection model and NetworkX library.
- Visualised these networks using HTML widgets

Voter Segmentation Analysis

- Worked on an unsupervised cluster model using voter data
- Visualised these clusters using Principal Components Analysis