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 quantitaive course in economics and politics with a focus on research design and statistical modelling
- Courses inlcude: 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 accross the Drugs, Exploitation, and Abuse (DEAA) unit covering all crime areas.
- Double 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 alongisde 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	Software	Other
R – Python – SQL – HTML – Bash	RStudio – PostgreSQL – DBeaver – PGAdmin – Spyder – GitLab – Jira	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

Friends TV Show Scene Generation

- Generated a scene from the TV show Friends using an LSTM Neural Network
- Involved cleaning the data and building the model