Ryan Pollard



MSC STATiSTiCS, DATA SCiENTiST WiTH SEVEN YEARS EXPERiENCE ACROSS DiFFERENT iNDUSTRiES.

*Manchester, UK*

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# Technical Skills

**Coding Analytics Software Markup Languages**

R, Python, SQL, SAS, Stata, HTML, Tensorflow

Machine Learning, Predictive Modeling, NLP, R Shiny, Time Series

Jupyter Notebook, Pycharm, GIT, SAS, Streamlit, Docker, Google Cloud Run

HTML, LATEX, RMarkdown

# Current employment

**Various oranisations** *Working remotely*

FREELANCE DATA SCiENTiST @ UPWORK *June 2021 ‑ Present*

* Deployment of predictive models, data science tools and visualisations with various clients.
* 100% Job Success Rate and Top Rated Freelancer.
* NLP: Sentiment Analysis, Information Retrieval, Search Engines.
* Neural Networks.
* Web Scraping.
* R Shiny Dashboards ‑ Dockerised for deployment.
* Medical Statistics.

[Freelancer profile link: www.upwork.com/freelancers/rypoll](https://www.upwork.com/freelancers/rypoll)

# Education

**University of Sheffield** *Sheffield, United Kingdom*

MSC STATiSTiCS *Sept. 2020 ‑ Sept. 2021*

* Machine Learning: Scikit‑learn, Keras, Neural Networks, Supervised and Unsupervised learning.
* R Shiny.
* Time Series.
* Bayesian Statistics.
* Dissertation: Sentiment Analysis using Topic Modelling of Twitter data and it’s impact on the stock market.

**University of Manchester** *Manchester, United Kingdom*

BSC MATHEMATiCS *Sept. 2007 ‑ Sept. 2010*

* Various statistical and probability modules elected.

# Work Experience

**Various clients** *Remote*

DATA SCiENTiST *Jun 2021 ‑ Present*

* Created a Neural Network using ensemble methods in order to predict gene behaviour.
* Dockerised the model into an R shiny application ‑ allowing for users to upload new training data.
* Segmented bicycle‑hire review data using LDA Topic Modeling and t‑SNE in order to identify issues specific to certain regions.
* Involved in the building of a search engine that spans across medical literature in order to visualise aspects mentioned in the papers and how they correlate with other mentions (Network analysis).

**Various schools** *Colombia | China*

MATHEMATiCS TEACHER | TRAVELiNG *Jan. 2018 ‑ July 2020*

* Teaching Mathematics in Colombia and China.
* Travelling through Central/South America and Asia.

**The Co‑Operative Bank** *Manchester, United Kingdom*

SENiOR RiSK MODELER *Feb. 2016 ‑ July 2017*

* Leading projects, communicating progress and new ideas with stakeholders, planning and executing the data‑lead projects.
* Developing and maintaining credit risk statistical models.
* Analysing and investigating risk modesl, giving a greater understanding of how each one works within its portfolio, and how it can be improved.
* Running and creation of model dashboards.

**British Gas** *Manchester, United Kingdom*

DATA MODELER *Mar. 2014 ‑ Feb. 2016*

* Building scorecards and ensuring their accuracy and compliance with model assumptions.
* Creation and running of MI of models.
* Identifying opportunities, engaging stakeholders and building models such that the models improve processes within the business to recoup money more efficiently from the debt portfolio.

**Adelphi Real World** *Manchester, United Kingdom*

STATiSTiCiAN *June 2011 ‑ October 2013*

* Undertaking different types of statistical tests on medical data that later went onto publications and medical journals in order to highlight pharmaceutical benefits and market opportunities.
* Various medical statistical techniques used with a focus on accuracy and obeying model assumptions, such as Survival Analysis, T‑tests and other tests.
* Cleaning data to get it in a form to be tested.

# Certifications

**Databases and SQL for Data Science with Python** *Coursera*

**Natural Language Processing: Machine Learning NLP In Python** *Udemy*

# Publications

* + [*A cross‑national examination of the association between behavioral, psychological, cognitive and functional*](https://www.researchgate.net/publication/275423120_A_cross-national_examination_of_the_association_between_behavioral_psychological_cognitive_and_functional_symptoms_on_quality_of_life_of_people_with_Alzheimer%27s_disease)[*symptoms on quality of life of people with Alzheimer’s disease.* **R. Pollard**, A. Duhig, Sube Banerjee, S. Hass, J.](https://www.researchgate.net/publication/275423120_A_cross-national_examination_of_the_association_between_behavioral_psychological_cognitive_and_functional_symptoms_on_quality_of_life_of_people_with_Alzheimer%27s_disease) [Jackson.](https://www.researchgate.net/publication/275423120_A_cross-national_examination_of_the_association_between_behavioral_psychological_cognitive_and_functional_symptoms_on_quality_of_life_of_people_with_Alzheimer%27s_disease)
  + [*Impact of morning symptoms experienced by COPD patients on exacerbation risk, rescue inhaler usage and*](https://thorax.bmj.com/content/67/Suppl_2/A155.1)[*normal daily activities.* **Ryan Pollard**, Mark Small, Sarah Broomfield, Steve Fermer.](https://thorax.bmj.com/content/67/Suppl_2/A155.1)

# Languages

* + Spanish: B2 (Common European Framework of Reference for Languages: A1/A2: Basic User. B1/B2: Indepen‑ dent User. C1/C2: Proficient User)