

# Jack Grimes

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London, UK

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## EDUCATION

### IMPERIAL COLLEGE LONDON

PH.D. ENGINEERING/EPIDEMIOLOGY

March 2012 - September 2015

### IMPERIAL COLLEGE LONDON

M.Sc. ENVIRONMENTAL  
ENGINEERING AND SUSTAINABLE  
DEVELOPMENT

September 2010 - September 2011

### UNIVERSITY OF OXFORD

M.A. (OXON) PHYSICS

September 2007 - September 2010

## SKILLS

### PROGRAMMING

**Very familiar:** Python • R • Git/GitHub  
Matlab/Octave

**Familiar:** SQL • JavaScript • HTML  
CSS •  $\LaTeX$

### PLATFORMS

Google Cloud Platform • Domino

## COURSES

(Ongoing:) [Machine Learning on Google Cloud Specialization](#)

[Bayesian Statistics: From Concept to Data Analysis](#) (Coursera, University of California, Santa Cruz)

[Deep Learning Specialization](#) (Coursera, deeplearning.ai)

[Machine Learning](#) (Coursera, Stanford University)

## INTERESTS

Cycling • Walking • Travelling • Reading

## EXTENDED CV

A more detailed version of my CV can be found on my [website](#)

## EXPERIENCE

### MORSUM London, UK

March 2021 - Present: **SENIOR DATA SCIENTIST**

- [.Anchovi](#): A food marketplace for food distributors, restaurants, and shops
- Product name cleaner: classifiers for filling out abbreviations, identifying descriptions, and regex for removing unwanted string patterns, hosting on Flask API
- Machine learning framework for productionising model (re-)training, serving and monitoring
- Product recommender system: design and build of a system including a framework for A/B testing
- Design of databases and pipelines for data ingestion
- Driving the use of unit tests, code linting and formatting, and sonarcloud and GitHub Actions builds to ensure high coding standards
- Building the Data Science team and outlining the teams' responsibilities
- Git, Google Cloud Platform, MySQL, pandas, PyCharm, pytest, scikit-learn

### LLOYDS BANKING GROUP London, UK

January 2019 - March 2021: **DATA SCIENTIST, APPLIED SCIENCE**

- Efficient, readable, unit-tested data science code for production
- Classification, clustering, network analysis, NLP: identification of incorrectly applied account and customer indicators
- Running the *Modelling Interest Group*, organising regular talks
- *Data Science Graduate Scheme Training Programme*: delivering the *Advanced Modelling* and *Natural Language Processing* sections
- Git, Jenkins, NetworkX, pandas, PyCharm, pytest, scikit-learn, spaCy

August 2017 - December 2018: **DATA SCIENTIST, RISK INNOVATION**

- Predictive modelling of fraudulent transactions, and of financial difficulty
- Topic modelling of regulatory data
- Presenting at internal conferences throughout the UK
- Data science solutions packaged into Flask apps for other teams
- face\_recognition, Flask, Gensim, Git, pandas, SAS VA, scikit-learn

### IMPERIAL COLLEGE LONDON London, UK

January 2016 - July 2017: **POSTDOCTORAL RESEARCHER**

- Mixed effects logistic regression (R and lme4) to compare environmental risk factors, parasites, and overall health, in a clustered dataset ([paper](#))
- Box-Cox transformations and linear regression (in R) to account for the 'long tail' of light parasite infections missed due to insufficient diagnostic sensitivity

March 2012 - December 2015: **PH.D. RESEARCH**

- Thesis: [An investigation into the roles of water, sanitation, and hygiene in the control of schistosomes and other helminths](#)
- R, ArcGIS for statistical comparisons between risk factors and infection
- Fieldwork: around six months in Ethiopia
- Presented at 6+ international conferences, led 11 journal articles
- Supervision of two M.Sc. students (plus an M.Eng. student in 2020)