

# Jack Grimes

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London, UK

## EDUCATION

### IMPERIAL COLLEGE LONDON

PH.D. ENGINEERING/EPIDEMIOLOGY  
September 2015

### IMPERIAL COLLEGE LONDON

M.Sc. ENVIRONMENTAL  
ENGINEERING AND SUSTAINABLE  
DEVELOPMENT  
September 2011

### UNIVERSITY OF OXFORD

M.A. (OXON) PHYSICS  
September 2010

## LINKS

GitHub: [jackgrimes](https://github.com/jackgrimes)  
LinkedIn: [jacketgrimes](https://www.linkedin.com/in/jacketgrimes)  
Google Scholar: [HZLogpQAAAAJ](https://scholar.google.com/citations?user=HZLogpQAAAAJ)

## COURSES

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

Deep Learning Specialization (Coursera, deeplearning.ai)

Machine Learning (Coursera, Stanford University)

## SKILLS

### PROGRAMMING

Very familiar:

Python • R • Git/GitHub  
Matlab/Octave

Familiar:

SQL • VBA • JavaScript • HTML  
CSS •  $\text{\LaTeX}$

### PLATFORMS

Google Cloud Platform • Domino

## EXTENDED CV

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

## EXPERIENCE

### MORSUM SENIOR DATA SCIENTIST

March 2021 - Present London, UK

- Building and launching a fully integrated data science-for-food platform
- Data ingestion: data transformation pipelines, models for selection of the best data, and anomaly detection to guide manual review
- Database design: for optimal enrichment of data
- Git, PyCharm, pandas, scikit-learn, pytest, Google Cloud Platform, MySQL
- Best practices: implementing GitHub Actions builds, unit tests, sonarcloud
- Building the team

### LLOYDS BANKING GROUP DATA SCIENTIST, APPLIED SCIENCE

January 2019 - March 2021 London, UK

- Efficient, readable, unit-tested data science code for production
- Git, PyCharm, Jenkins, pandas, spaCy, scikit-learn, pytest, NetworkX
- 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

### LLOYDS BANKING GROUP DATA SCIENTIST, RISK INNOVATION

August 2017 - December 2018 London, UK

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

## RESEARCH

### IMPERIAL COLLEGE LONDON POSTDOCTORAL RESEARCHER

January 2016 - July 2017 London, UK

- 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

### IMPERIAL COLLEGE LONDON PH.D. RESEARCH

March 2012 - December 2015 London, UK

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
- Findings presented widely: 6+ international conferences, 11 journal articles
- Supervision of two M.Sc. students (plus an M.Eng. student in 2020)

## AWARDS

2016	Best Presentation	Wellcome Centre for Global Health Research Annual Meeting
2009	Collections (exams) prize	University of Oxford