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
LinkedIn: jacketgrimes
Google Scholar: 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 • 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
- NLP classifiers for context-dependent filling out of abbreviations
- Product recommender systems
- Data ingestion: data transformation pipelines, models for selection of the best data, and anomaly detection to guide manual review
- Git, PyCharm, pandas, scikit-learn, pytest, Google Cloud Platform, MySQL
- Best practices: implementing GitHub Actions builds, unit tests, sonarcloud

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