

Dr Robin Cole

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Nationality: British

Location: London

Physics PhD with a passion for solving problems using data and python. A lifelong learner, I am continually broadening my skillset and happy to cross disciplines. Not afraid to roll up my sleeves and get stuck into the engineering details, I will do what it takes to get my code into production and in the hands of end users. Big believer in the value of building a community and in the importance of communicating my work to a wide audience. Very active contributor to open source, with particular interest in the deployment of neural networks & building data science platforms.

Proficient in: python, AWS S3 & Batch, Google BigQuery & Storage, Apache Airflow, SQL, Snowflake, Docker, Jenkins, Jupyter

WORK

February 2020 - present **Data engineer, notonthehighstreet.com (ecommerce)**

- Member of tight knit team developing and maintaining the data platform for a website with millions of users
- Daily tasks include writing Airflow dags, supporting and advising the analysts on the use of our big data warehouse, collaborating with data scientists to get their code & models into production (product recommendation engine)

April 2019 - February 2020 **Research and development, BlockDox (proptech startup)**

- As this was a start up I was involved in almost all aspects of the business, from undertaking R&D for the core product, performing data science work, managing relationships with suppliers, representing the company at trade events, helping define the company strategy and roadmap, interviewing candidates for new roles.
- Time series modelling of environmental data using ARIMA and RNN
- Development and refinement of algorithm for people tracking using thermal cameras

July 2017 - March 2019 **Optical systems engineer, Surrey Satellite Technology Ltd**

- Developed analytics package for modelling the performance of spacecraft optical systems
- Upgraded image processing pipeline from spaghetti junction of bash scripts and cron jobs to modern python & airflow
- Collaborated on project with Oxford University to automate the alignment of telescopes, resulting in significant cost savings
- Reviewer of material for Manning Publications course "Deep Learning and Remote Sensing for Water Resources Assessment"

September 2014 – July 2017 **Medical physics, Royal Surrey County Hospital**

August 2011 – August 2014 **Postdoctoral Research Associate, University of Queensland, Australia**

May 2010 – July 2011 **Research scientist, Sharp Laboratories, Oxford**

OPEN SOURCE AND COMMUNITY WORK

- Active on Github with over 1000 stars on my repositories <https://github.com/robmarkcole>
- Contributions to Pandas and Matplotlib
- Winner of 'Best innovator' award (and £3k) in the 2017 Design Spark LeakKiller Challenge
- Invited speaker at PyData London events, on topic of getting neural networks into production
- Multiple high impact scientific publications, including in the prestigious Physical Review Letters journal

EDUCATION

2006 – 2010 **PhD Physics, University of Cambridge**

2014 – 2017 **MSc Medical Physics, Kings College London**

2004 – 2005 **MSc Optics and Photonics, Imperial College London**

2001 – 2004 **BSc Physics (1st Class), University of Southampton**