# 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, Jupyter, pytorch, pandas, openCV, AWS

## WORK

**January 2021 - present**　　　　　　　**Senior data scientist, SatelliteVu**

- First technical hire at startup, built v1 data engineering pipeline on AWS comprising AWS lambda, batch & S3
- Implemented proof of concept solution for super resolution using deep learning with pytorch
- Supervisor for junior data scientist working on unsupervised learning with image embeddings
- Work closely with product team to establish product roadmap and technical requirements

**February 2020 - December 2020**　　　　**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**
**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
- 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**