William Grimes

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Highlights

- Data scientist with experience in text-mining, imaging, and geolocational data
- PhD in Computational Biology from University College London
- Five years experience programming in Python for signal processing and bioinformatics

Skills

Machine learning: Linear regression, decision trees, random forest, support vector machines
Programming: Python, R, SQL, Matlab, Java
Data science: NumPy, matplotlib, pandas, SciPy, scikit-learn, OpenCV
Other technical: Git, LabView, LaTeX, Office, BASH

Experience

Data Science for Social Good, Lisbon - *Fellowship Programme* Jun 2017 - Present

- Designed and programmed a pipeline using vessel data to predict the likelyhood of illegal fishing
- Collaborated with the World Economic Forum, IBM, Chicago University, and data providers

London Fire Brigade, London - *Data Science Consultant* Jan 2017 - Jun 2017

- Implemented and evaluated three topic modelling methods to classify 37,000 fire incident reports
- Revealed incidents not systematically recorded in categorical data, specifically ducting fires

ASI Data Science, London - *Fellowship Programme* Jan 2017 - Jun 2017

- Enhanced commercial awareness and business skills including communication, negotiation, and project management
- Completed 50 hrs training in machine learning, databases, statistics, and relevant technologies

Laboratory for Molecular Cell Biology, London - *PhD Student* Apr 2015 - Nov 2016

- Applied machine learning techniques to identify cell phenotypes with a detection accuracy of 82%
- Trained Haar-like features model to track leukocytes in endothelial adhesion assays, with a tracking accuracy of 92%
- Co-authored journal articles in *Nature Scientific Reports* and *Journal of Thrombosis and Haemostasis*

A*STAR Bioinformatics Institute, Singapore - *Research Attachment Programme* Sep 2013 - Apr 2015

- Built an image processing pipeline for segmentation of endothelial cells and their organelles
- Employed the workflow to analyse over 40 separate high-throughput confocal imaging studies

National Institute of Informatics, Tokyo - *International Internship Programme* Jun 2013 - Sep 2013

- Created a Java plugin to aid geneticists in identifying and classifying phenotypes in μCT images of mouse embryos, which reduced the image classification and annotation time by 95%

Education

PhD in Computational Biology - University College London Sep 2013 - Nov 2016
Thesis: *Image processing and analysis methods in quantitative endothelial cell biology*

MSc in Computer Science - University College London Sep 2012 - Sep 2013
Awarded Aardvark Scholarship 2012

BSc in Natural Sciences - Durham University Sep 2009 - Sep 2012

Interests

Artificial intelligence, blockchain, cryptography, Vipassana meditation, travel, and photography.