

William Grimes

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HIGHLIGHTS

- Data scientist with experience in text-mining fire investigation reports from the London Fire Brigade
- 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, ~~Excel~~ LaTeX, Office, BASH

EXPERIENCE

- London Fire Brigade, London - Data Science Consultant** Jan 2017 - Present
- 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 - Present
- 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 trajectories 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 μ CT images of mouse embryos, which reduced the image classification and annotation time by 95%
- DMP Financial Ltd - Financial Analyst Internship** Jul 2011 - Aug 2011
- Investigated fund portfolio turnover rates to estimate investor costs

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.