

William Grimes

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www.linkedin.com/in/william-grimes

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

SKILLS

Machine learning: Regression, decision trees, ensembles, SVMs, neural networks, and deep learning
Programming: Python, SQL, R, Matlab, Java
Data science: NumPy, matplotlib, pandas, SciPy, scikit-learn, scikit-image, OpenCV, Keras, theano
Other technical: Git, AWS, \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 likelihood 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 μ CT 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.