

# William Grimes

+44(0)7794070622

[www.linkedin.com/in/william-grimes](http://www.linkedin.com/in/william-grimes)

[williamgrimes@gmx.com](mailto:williamgrimes@gmx.com)

## HIGHLIGHTS

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- 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

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**Machine learning:** Regression, decision trees, ensembles, SVMs, neural networks, and deep learning  
**Programming:** Python, SQL, R, Matlab, Javag  
**Data science:** NumPy, matplotlib, pandas, SciPy, scikit-learn, scikit-image, OpenCV, Keras, theano  
**Other technical:** Git, LabView, ~~TeX~~ Office, BASH

## EXPERIENCE

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- 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  $\mu$ CT images of mouse embryos, which reduced the image classification and annotation time by 95%

## EDUCATION

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- 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

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