





# DR. JACK WALTON

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*"PhD educated and analytical problem solver seeks challenging and intellectually stimulating work"*

## Employment

### Data Scientist and Engineer

 *Jumping Rivers Ltd.*


 2020–Present

-  Taught over 200 hours of Python programming courses, with course difficulty ranging from "what is a variable?" to machine learning with sklearn.
-  Employed Ansible and Terraform to manage, provision and configure client and internal infrastructure, working with a number of different cloud providers.
-  Collaborated on the development of a suite of R packages to standardise and simplify internal project management and automate recurring tasks.
-  Harnessed version control (primarily git) on all code-based projects, and used CI/CD tools to aid code stability and enforce good-coding practices.
-  Used docker to deploy R applications in a stable and scalable environment.
-  Used Ubuntu+i3wm as a day-to-day OS+wm, becoming confident performing all manner of duties from a CLI, scripting in bash, and using standard command-line tools such as ssh, grep, sed, vi, etc.
-  Developed, curated, and delivered courses on the probabilistic programming language Stan, best-coding practices and how to implement them, and getting the most out of RStudio Connect as a data scientist.

## Education

### University of Newcastle upon Tyne, UK

 *PhD, Applied Mathematics*




 2016–2020

### University of Newcastle upon Tyne, UK

 *Master of Mathematics, 1st Class*


 2012–2016

## Additional Experience

-  Regular contributor on stack overflow—answering over 125 questions, and reaching 145k users.
-  Maintainer of jwalton.info, a programming blog and personal website which attracts 800–1000 unique monthly users, with ~85% of traffic acquired through organic search.
-  Worked as a tutor at Newcastle University's maths consultancy service; helping students and staff solve a broad variety of problems with maths and statistics.

## Awards

### Northumbria Water Hackathon

 *Best team solution*

 July 2019


### UK Conference on Multiscale Biology

 *Best poster award*

 April 2018

### EPSRC

 *PhD project funding (3.5 years)*

 2016–2020