







JACK WALTON


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

Education

University of Newcastle upon Tyne, UK

 *PhD, Mathematics*

 2016–Present

University of Newcastle upon Tyne, UK

 *Master of Mathematics, 1st Class*







 2015–2016

University of Newcastle upon Tyne, UK

 *Mathematics BSc Hons, 1st Class*

 2012–2015

Computing

-  Python expert. Considerable experience using numpy and pandas to handle and manipulate data. Confident using matplotlib to create custom data visualisations.
-  Confident scripting in bash, producing process pipelines and using standard shell commands (ssh, scp, sed, awk, grep, find, etc.)
-  Used git and github to manage multiple projects and collaborate with others.
-  Familiarity with HPC services and various job schedulers (SLURM, PBS).
-  Notable experience working with; R; Stan; Matlab; Fortran; html; SPSS and \LaTeX .
-  Regular contributor on stack overflow. Ranked in top 1% of users in 2019.

Awards

UK conference on Multiscale Biology

 *Best poster award*

 April 2018

EPSRC

 *Research project funding*

 2016–2020

Experience

- Employed as a data scientist at Jumping Rivers Ltd. whilst completing PhD. Role involved delivering 1–2 day programming workshops for clients in industry and academia.
- Organised, created and delivered various half-day workshops teaching Python, \LaTeX , git and github for Newcastle University.
- Worked as a tutor at Newcastle University's maths consultancy service; helping students solve a broad variety of problems with maths and statistics.
- Involved in the teaching, marking and invigilation of multiple undergraduate modules. Improved communication skills assisting on modules from 'Problem Solving' to 'Statistics for experimental Psychology'

Quantitative skills

- 📈 Earned a 1st class masters and 1st class degree in maths. Expected to be awarded PhD in maths in 2020.
- 📈 Experienced working with many different disciplines of mathematics, most notably applied maths and Bayesian statistics
- 📈 Confident and competent applying mathematical and statistical techniques to solve novel real world problems
- 📈 Comfortable working with, visualising and manipulating big datasets

Conferences

- Organised Newcastle University's 2018 postgraduate applied maths conference
- Delivered poster presentations at UK conference on multiscale biology (winning best poster) and collective dynamics and self-organisation conference

References

Available on request