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	□ 2015–2016		
University of Newcastle upon Tyne, UK			
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, 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; Docker; Stan; Matlab; Fortran; html; SPSS and LATEX.			
ightharpoonup Regular contributor on stack overflow. Ranked in top $1%$ of users in 20	19.		
Awards			
Northumbria Water Hackathon Pest overall solution	□ July 2019		
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Northumbria Water Hackathon Best overall solution	☐ July 2019
UK Conference on Multiscale Biology **Best poster award**	☐ April 2018
EPSRC ★ Research project funding	□ 2016–2020

Teaching Experience

- Employed as a data scientist at Jumping Rivers Ltd. whilst completing PhD. Role involved delivering 1-3 day programming workshops for clients in industry and academia.
- In 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'.

Research skills

<u>~</u>	Experienced working within different disciplines of mathematics, most notably applied mathematics and Bayesian statistics.		
<u>~</u>	Clear presenter and communicator of ideas to specialists and non-specialists alike.		
<u>~</u>	Understanding of various MCMC algorithms and how to implement them programmatically.		
<u>~</u>	Confident and competent self-directed and independent researcher.		
<u>~</u>	Ability to think creatively and outside-the-box.		
	onferences attended		
Montreal University, QC Society for Mathematical Biology. Contributed poster.		☐ July 2019	
	wcastle University, UK stgraduate Applied Maths conference. Organiser and speaker.	□ July 2018	
	nburgh University, UK lective dynamics and self-organisation. Contributed poster.	□ June 2018	
Not	ttingham University, UK		

Talks given

UK conference on multiscale biology. Contributed poster.

J	Collective behaviour: parameter inference to inform model selection	📋 June 2019
U	Hashing algorithms and password cracking	
U	The mathematics of collective behaviour	☐ June 2018
J	PGR open day: Why Newcastle	☐ November 2018

☐ April 2018

References

Available on request