JACK WALTON

jwalton.info +44 783 4459 863 Newcastle upon Tyne, UK

j.walton4@newcastle.ac.uk linkedin.com/in/jwalton93

"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*

Heckmondwike Grammar School, UK
A levels, AAA, Biology, Chemistry, Maths *2010–2012*

Computing

- Considerable Python expertise. Experience using numpy and pandas to perform computationally demanding jobs. Confident using matplotlib to create custom data visualisations

- Confident scripting in bash, producing process pipelines and using standard shell commands (ssh, scp, sed, awk, tr, grep, find, etc.)

- Used git and github to manage multiple projects and collaborate with other researchers

- Learnt to use html, css, and markdown to build personal website (jwalton.info), and blogged about Python, Linux and data visualisation

- Familiarity using HPC services and various job schedulers (SLURM, PBS)

- Notable experience working with; R; Stan; Matlab; Fortran and LaTeX

Awards

UK conference on Multiscale Biology
Best poster award *April 2018*

EPSRC
Research project funding *2016–2020*

Teaching

- Organised, created and delivered various half-day workshops teaching Python, LaTeX, git and github to PhD students

- 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 PhD, 1st class masters and 1st class degree in maths
- 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

Andrew Fletcher
PhD supervisor
School of Maths, Stats & Physics
Newcastle University
NE1 7RU

Colin Gillespie
PhD supervisor
School of Maths, Stats & Physics
Newcastle University
NE1 7RU