Samuel Abbott

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Interests

I am a mathematical modeller interested in developing and fitting models for infectious disease, using a wide range of data. Currently my main focus is on control strategies for and drug resistance in tuberculosis.

Education

15–19 **University of Bristol**, *PhD Social Medicine.*
Modelling the acquisition and transmission of drug resistant tuberculosis; The effectiveness and cost effectiveness of BCG vaccination in England

15–15 **University of Glasgow**, *Research Placement*, Distinction.
The multi-species ecology of antimicrobial resistance in tanzanian human and livestock populations: Using Bayesian methods to infer genetic resistance patterns from phenotypic data

14–15 **University of York**, *Msc Advanced Mathematical Biology*, Distinction.

Group Project, *Modelling superspreading and seasonlity in Influenza*, Distinction .
An analysis of the resonant effects produced by the introduction of population heterogenity and seasonal variation to an SIRS model.

10–14 **University of Durham**, *MMath Mathematics*, 2:1.

Project, *Strings and Dualities*, 1st.
An introductory look at String Theory combined with the use of dualities to relate the differing theories.

08–10 **St Albans School**.
A-levels: Mathematics ($A^\star$), Further Mathematics ($A^\star$), Physics ($A^\star$), Chemistry (A)
AS-levels: Further Additional Mathematics (A)

03–08 **The Knights Templar School**.

Publications, Presentations, Posters

Poster S. Abbott, M. J Denwood, C. Mair, R. Reeve, M Subbiah, M. Caudell, R. Quinlan, M. Quinlan, D. Mishanga, J. Keyyu, D. R. Call, L. Matthews, *The multi-species ecology of antimicrobial resistance in tanzanian human and livestock populations*, Association for Veterinary Teaching and Research Work, London, 2015

Key Skills

Programming Languages Matlab, R, C

Textprocessing Latex, LatexBeamer, Word

Extra-curricular Activities

Cross Country	An active runner; I regularly train and complete races in a variety of distances
Walk–leader and MLT trainee	Previously I was an active member of my University Hillwalking society with weekly walks leading 8-10 other students. As part of the society I took a course of Mountain leader training, which, after an assessment, will lead to me becoming a Qualified Mountain Leader. This activity gives me a pool of experience in leading groups in difficult and complex situations
Voluntary Tutor	As part of a Student group I gave one to one A-level maths tuition throughout the 2013\14 school year. Working with a struggling student on a weekly set of problems and covering key topics in greater detail
Cooking	I love to cook and particularly like Asian, Indian and Mexican cuisine

References

Dr Simon Ross	Professor of Mathematical Sciences, University of Durham, South Rd., Durham, DH1 3LE. Email: s.f.ross@durham.ac.uk
Dr Jon Pitchford	Reader in the Department of Mathematics, University of York, York, YO10 5DD. Email: jwp5@york.ac.uk