Samuel Abbott

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A final year PhD student studying BCG vaccination policy in the UK using statistical and mathematical modelling. Particularly interested in combining novel datasets with dynamic infectious disease models, developing R packages to improve tooling and reproducible research. Currently working part-time as a data scientist at Funding Circle, developing interactive dashboards for predictive models. Curates a blog and shiny server covering outreach for infectious disease modelling and peer to peer lending.

Employment

2017-2018 **Funding Circle**, *Data Scientist*.
Developing interactive dashboards, to facilate data analysis and predictive modelling.

Education

2015-18 **University of Bristol**, *PhD Social Medicine*, In progress.
Modelling BCG vaccination policy in the UK: What is the effect of changing policy?

2015 **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

2014-15 **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.

2010-14 **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.

Training

2017- **Datacamp**, *Data science career track*, (70% complete).

2016- **University of Bristol**, *Short courses*.
Basic Epidemiology, Multilevel Modelling, Data Linkage, Analysis of repeated measures, Bayesian statistics with WINBUGS, Multiple Imputation Methods to deal with Missing Data, Methods for Mediation and Interaction Analysis, and Advanced Survival Analysis and Prognostic Modelling

2016 **Wellcome Trust**, *Residential course*.
Mathematical Modelling for Infectious Disease Dynamics

Technical Skills

Programming	R (advanced), Matlab (intermediate), C/C++ (basic), STAN (basic), JAGS (basic)
Packages	Shiny, tidyverse, H2O, keras, caret, brms, ggplot2, plotly
Tools	Git/Github, Docker, Travis, AWS
Textprocessing	Rmarkdown, markdown, Latex

Reference on Request