

Sam Abbott

RESEARCH FELLOW

London School of Hygiene and Tropical Medicine

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My main research interest lies in developing, evaluating, and applying methods for improving our understanding of infectious disease dynamics in real-time. I am committed to doing science in the open, and collaboratively, with the aim of producing useful and actionable output.

Positions

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| RESEARCH PLACEMENT - UNIVERSITY OF GLASGOW | 2015–2015, |
| DATA SCIENTIST - FUNDING CIRCLE | 2017–2019 |
| RESEARCH ASSISTANT - UNIVERSITY OF BRISTOL | 2019–2019 |
| RESEARCH FELLOW - LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE | 2020– |
| RESEARCH ASSOCIATE - SOUTH AFRICA CENTRE OF EXCELLENCE IN EPIDEMIOLOGICAL MODELLING AND ANALYSIS | 2021– |

Qualifications

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| PHD IN EPIDEMIOLOGY - UNIVERSITY OF BRISTOL | 2015–2019 |
| MSC ADVANCED MATHEMATICAL BIOLOGY - UNIVERSITY OF YORK | 2014–2015 |
| MMATH MATHEMATICS - UNIVERSITY OF DURHAM | 2010–2014 |

Skills

Analytical

MATHEMATICAL MODELLING, STATISTICAL MODELLING, BAYESIAN STATISTICS, REPRODUCIBLE RESEARCH, SOFTWARE DEVELOPMENT

Programming

R (ADVANCED), STAN (ADVANCED), PYTHON, JULIA, TURING.JL, C/C++, BASH, SQL, GIT, DOCKER, AWS, GCS, AZURE

Selected publications

See [here](#) for a full list of my publications.

Selected software

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| scoringutils | epiforecasts.io/scoringutils |
| UTILITIES FOR SCORING AND ASSESSING PREDICTIONS | 2023 |
| epinowcast | epiforecasts.io/epinowcast |
| HIERARCHICAL NOWCASTING OF RIGHT CENSORED EPIDEMIOLOGICAL COUNTS | 2022 |
| covidregionaldata | epiforecasts.io/covidregionaldata |
| SUBNATIONAL DATA FOR THE COVID-19 OUTBREAK | 2021 |
| EpiNow2 | epiforecasts.io/EpiNow2 |
| ESTIMATE REAL-TIME CASE COUNTS AND TIME-VARYING EPIDEMIOLOGICAL PARAMETERS | 2020 |

Software that I have primarily developed has had over 30k downloads and been used in multiple public health organisations such as the WHO and the ECDC. Software that I have managed the development of has had over 20k downloads. See my [GitHub](#) for more on my software output.

Research (Co-) Supervision

Teaching

2019”

*Bristol Infectious Disease Dynamics:
University of Bristol*

INTRODUCTION TO INFECTIOUS DISEASE MODELLING

2018

- [bristolmathmodellers.github.io/ biddmodellingcourse](https://bristolmathmodellers.github.io/biddmodellingcourse), Responsible for developing and teaching two 1 hour practicals on model development and dynamics.

Presentations

HOW CAN GOVERNMENTS PLAN FOR THE NEXT PANDEMIC? LSHTM CENTRE FOR EPIDEMIC PREPAREDNESS AND RESPONSE

2022

SYMPOSIUM

ECDC FORECASTING HUB SEMINAR SERIES

2021

BRISTOLR

2019

UK CLINICAL VACCINE NETWORK CONFERENCE

2019

R/MEDICINE

2019

RESEARCH AND APPLIED EPIDEMIOLOGY SCIENTIFIC CONFERENCE

2018

RESEARCH AND APPLIED EPIDEMIOLOGY SCIENTIFIC CONFERENCE

2017

48TH UNION WORLD CONFERENCE ON LUNG HEALTH

2017

RESEARCH AND APPLIED EPIDEMIOLOGY SCIENTIFIC CONFERENCE

2016

See the details, slides, and recordings of my presentations here

Service

Outreach

- Blog - with over 2.5k unique hits each year - looking at infectious disease epidemiology and dynamics, developments in ‘R’, tool development and reproducible research. Link: samabbott.co.uk/post

Organisations

- Co-organiser of BristolR

Manuscript Reviews

- Journal of Open Source Software (2)
- Eurosurveillance (1)