Dr Arran Hamlet

Epidemic Intelligence Service Officer

Centers for Disease Control and Prevention, Atlanta, United States of America

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Infectious disease epidemiologist and mathematical modeller with extensive experience in data analysis and statistical/mechanistic modelling to inform outbreak response and public health policy. Strong interest in work within LMIC settings and the programming of interactive tools for data analysis and decision making.

Qualifications

PhD titled 'Yellow fever in South America: The role of environment and host on transmission dynamics'

Jan 2017-Jan 2020

Imperial College London — *London, United Kingdom*

- Project focused on understanding the epidemiology of yellow fever across South America, with a focus on Brazil, examining the roles of climate, environment and host, using a variety of statistical and mechanistic modelling techniques.
- Awarded 3 Medical Research Council (MRC) Exceptional Training Opportunity awards (total £4,589) and a MRC pump priming award (£23,000) to present results as well as teach, design and run workshops in Brazil and Colombia for Ministries of Health and Universities.
- Supervised by Dr Tini Garske and Professor Neil Ferguson, fully funded by the UK Medical Research Council.

MSc in Epidemiology

Oct 2014-Oct 2015

Imperial College London — *London, United Kingdom*

- Studied a broad collection of topics before specialising in infectious disease epidemiology.
- Awarded a distinction for my dissertation project titled 'The Seasonality of Yellow Fever in Africa.'

BSc in Biology with Psychology

Sep 2011-May 2014

Queen Mary University of London — *London, United Kingdom*

- Graduated with Upper Second-class Honours (2.1).

Employment

Epidemic Intelligence Service Officer

July 2022-

Centers for Disease Control and Prevention — *Seattle, United States of America*

- Epidemic Intelligence Service Officer for the state of Washington.
- Primarily working on disease outbreak response, surveillance and policy.
- Projects include: Estimating the burden of long COVID in Washington state, Evaluating Tuberculosis and Rabies surveillance systems, Tuberculosis in the correctional system in Washington state, and communicable disease outbreak investigations.

Visiting Researcher

Jun 2022-

Imperial College London — *London, United Kingdom*

- Visiting researcher for mathematical and statistical modelling of malaria.

Postdoctoral Researcher (Malaria)

Jan 2020-Jun 2022

Imperial College London — *London, United Kingdom*

- Involved in a variety of projects assessing the public health impact of various control measures on the burden of malaria across Africa using mechanistic transmission models.
- Assessed the impact of disruption caused by the SARS-CoV-2 pandemic on malaria control across Africa. Results published Nature Medicine as joint first author.
- Lead researcher on a piece of work assessing the potential impact of Anopheles stephensi establishment on malaria transmission in Ethiopia.

Postdoctoral Researcher (Nigeria COVID-19 response)

Apr 2020-Dec 2020

Imperial College London — *London, United Kingdom*

- Lead researcher for Imperial College London's data analytics and modelling support for Nigeria.
- Conducted analysis to answer specific questions in order to provide evidence for decisions to be made by the Nigerian Presidential Task Force.
- Produced a multitidue of reports as well as regular state-specicic analysis that fed into NCDC, US CDC and UK Department for International Development decision making.
- A number of position papers can be found at https://statehouse.gov.ng/covid19/2020/09/18/evidence-based-guidance-on-measures-to-curb-the-spread-of-covid-19/.

Postdoctoral Researcher (COVID-19 response)

Feb 2020-Dec 2020

Imperial College London — *London, United Kingdom*

- Provided technical support and input for numerous reports and projects, with a focus on work in Low-to-Middle-Income Countries (LMIC) and on quantifying the underascertainment of mortality.
- Seconded through the Global Outbreak Alert and Response Network to provide technical support for the WHO in Geneva Feb - Apr 2020.

PhD in Infectious Disease Modelling

Jan 2017 - Jan 2020

Imperial College London — *London, United Kingdom*

- PhD thesis titled 'Yellow fever in South America: The role of environment and host on transmission dynamics'.
- Explored the role of climate, landcover and zoonotic reservoirs on the distribution of yellow fever in South America. Additional work focussed on estimating the vaccination coverage of yellow fever globally over time.

Research Assistant

Oct 2015 - Dec 2016

Imperial College London — *London, United Kingdom*

- Outbreak analysis and response for the 2015-2016 outbreak in Angola and the Democratic Republic of the Congo working with the World Health Organization (WHO).
- Responsible for estimating population-level vaccination coverage across Africa and the development of an open-source tool to explore this information. Currently utilised by researchers and the WHO.

Consultancy

Course Instructor and Curriculum Designer

Jan 2022 -

AppliedEpi — *Online*

- Responsible for creating learning materials for self directed and taught courses designed to teach Epidemiologists how to code in R..
- Lead and assisted on taught courses teaching applied epidemiology to various Health Departments (Wales, Kazakhstan, Cambodia, Canada).
- Designed and created the Advanced Statistics in R course.

Epidemiologist: COVID-19

Feb 2020 - Apr 2020

World Health Organization — *Geneva, Switzerland*

- Provided technical support for the WHO in the Health Emergency Information and Risk Assessment (HIM) pillar through GOARN deployment
- Work involved exploring and quantifying mortality, transmission and country specific impacts through data analysis and visualisation in real time as the COVID-19 pandemic unfolded. Aspects of data visualisation acknowledged in https://worldhealthorg.shinyapps.io/covid/.
- Continued to provide adhoc support till Dec 2020.

Epidemiologist: Yellow fever

Jul 2016 - Sep 2016

World Health Organization — *Geneva, Switzerland*

- Commissioned to produce a report evaluating the risk of outbreaks of yellow fever across Africa as a result of ongoing transmission in Angola and the Democratic Republic of the Congo and the potential for introduction into Asia.

Epidemiologist

Feb 2016 - Mar 2016

Ozygen Systems — *London, United Kingdom*

- Hired to produce a report on numerous pathogens involved in nosocomial infection and to evaluate the applicability of ozone decontamination technology in UK healthcare settings to limit their spread.

Teaching

Shortcourse co-organiser

Jan 2021 - Sep 2021

Imperial College London — *London, United Kingdom*

- Co-organiser on the departments 'Mathematical modelling for the control of infectious diseases' short course, run since 1990 and designed to teach pubic health professionals about infectious disease modelling.
- Responsible for helping redesign, and restructure, the course in order to deliver it fully online in light of the ongoing COVID-19 pandemic.

PhD Assessor

Oct 2020-

University of São Paulo — *São Paulo, Brazil*

- Examining progress and assisting with the research of a PhD student's project titled 'Spatio-temporal dynamics of yellow fever in Brazil'.

MSc Dissertation Supervisor

May 2020 - Oct 2020

Imperial College London — *London, United Kingdom*

- Designed and supervised MSc Epidemiology projects looking at the effect of forest fragmentation on yellow fever in Southern Brazil, and exploring the differences in transmission dynamics between yellow fever, dengue and zika.

Graduate Teaching Assistant

Jan 2017 - Jun 2022

Imperial College London — *London, United Kingdom*

- Teaching assistant and demonstrator for numerous modules on infectious disease modelling, statistical analysis and epidemiology.

Shortcourse Demonstrator

Jun 2019

Imperial College London

Bogota, Colombia

- Demonstrator and lecturer on a course coordinated between Imperial College London, Instituto Nacional De Salud and Pontificia Universidad Javeriana Bogota which aimed to give an introduction to infectious disease modelling.

Shortcourse Demonstrator

Sep 2017/Sep 2018/Sep 2019

Imperial College London

London, United Kingdom

- Demonstrator on numerous practical exercises and lectures on data analysis and infectious disease modelling on the aformentioned departments 'Mathematical modelling for the control of infectious diseases' short course.

Design and implementation of an online platform for teaching infectious disease modelling

Jan 2019 - Sept 2019

Imperial College London

London, United Kingdom

- Responsible for liasing between programming team and course organisers to design and translate existing practicals from Berkely Madonna to an online web interface running the Odin language.
- Highly successful implementation with the platform now being used for both future shortcourses and the MSc Epidemiology at Imperial College London.

Funding awards

MRC Pump Priming (£23,000)

Nov 2019

Imperial College London

London, United Kingdom

- Jointly awarded £23,000 with co-PI Natsuko Imai to run a week long training workshop in Rio de Janeiro focusing on the use of mathematical models in outbreak response and policy in July 2020.
- Course was to be run collaboratively with the Brazilian Ministry of Health and Fundação Oswaldo Cruz (Fiocruz).
- Postponed due to the COVID-19 pandemic and rescheduled for August 2022.

MRC Exceptional Training Opportunity

Oct 2017/Aug 2018/Jun 2019

Imperial College London

London, United Kingdom

- Oct 2017: Awarded £650 to travel to the WHO in Geneva, Switzerland to present my work on yellow fever and discuss with the yellow fever team how my PhD can provide support for their activities.
- Aug 2018: Awarded £2220 to travel to Rio de Janiro and Brasilia, Brazil, and present my results on modelling yellow fever in South America at a meeting co-hosted by the Brazilian Ministry of Health and the Pan American Health Organization, as well as to set up a research collaboration with Fiocruz.
- Jun 2019: Awarded £1719 to travel to Bogota, Colombia to lecture and demonstrate on a course coordinated between Imperial College London, Instituto Nacional De Salud and Pontificia Universidad Javeriana Bogota which aimed to give an introduction to infectious disease modelling.

Presentations

Gastrointestinal illness among hikers on the Washington State Pacific Crest Trail, August–October 2022.

Apr 2023

EIS Conference 2023 and CSTE 2023

Atlanta, United States of America

The potential public health consequences of COVID-19 on malaria in Africa

Oct 2020

London Malaria Network

London, United Kingdom

Seasonality of agricultural exposure more important than seasonality of climate for predicting yellow fever transmission in Brazil

Nov 2019

American Society of Tropical Medicine and Hygiene

National Harbor, United States of America

Statistical and mathematical modelling of yellow fever in South America

Jun 2019

Outbreak Analysis and Modelling for Public Health

Bogota, Colombia

Land-use, vegetation and habitat fragmentation as drivers of yellow fever transmission in South America

Feb 2019

International Conference on One Medicine One Science

Chiang Mai, Thailand

Yellow fever in Brazil - Modelling as a tool to inform outbreak response and public health policy

Nov 2018

Yellow fever forecasting: Embedding modelling in lessons learnt exercises

Brasilia, Brazil

Publications

First author publications

The potential impact of Anopheles stephensi establishment on the transmission of Plasmodium falciparum in Ethiopia and prospective control measures
BMC medicine
A Hamlet, D Dengela, JE Tongren, FG Tadesse, T Bousema, M Sinka, A Seyoum, SR Irish, JS Armistead, T Churcher
2022

Seasonality of agricultural exposure as an important predictor of seasonal yellow fever spillover in Brazil
Nature Communications
A Hamlet, DG Ramos, KAM Gaythorpe, APM Romano, T Garske, NM Ferguson
2021

Seasonal and inter-annual drivers of yellow fever transmission in South America
PLoS neglected tropical diseases
A Hamlet, KAM Gaythorpe, T Garske, NM Ferguson
2021

Yellow fever in South America: The role of environment and host on transmission dynamics
Imperial College London
A Hamlet
2020

POLICI: A web application for visualising and extracting yellow fever vaccination coverage in Africa
Vaccine
A Hamlet, K Jean, S Yactayo, J Benzler, L Cibrelus, N Ferguson, T Garske
2019

The seasonal influence of climate and environment on yellow fever transmission across Africa
PLoS neglected tropical diseases
A Hamlet, Kév Jean, W Perea, S Yactayo, J Biey, MV Kerkhove, N Ferguson, T Garske
2018

Additional publications

Seasonal dynamics of Anopheles stephensi and its implications for mosquito detection and emergent malaria control in the Horn of Africa
Proceedings of the National Academy of Sciences
C Whittaker, *A Hamlet*, E Sherrard-Smith, P Winskill, G Cuomo-Dannenburg, PGT Walker, M Sinka, S Pironon, A Kumar, A Ghani, S Bhatt, TS Churcher
2023

Correction: The epidemiology of Mayaro virus in the Americas: A systematic review and key parameter estimates for outbreak modelling
PLOS Neglected Tropical Diseases
E-Y Caicedo, K Charniga, A Rueda, I Dorigatti, Y Mendez, *A Hamlet*, J-P Carrera, ZM Cucunubá
2023

Alternative epidemic indicators for COVID-19 in three settings with incomplete death registration systems
Science Advances
R McCabe, C Whittaker, RJ Sheppard, N Abdelmagid, A Ahmed, IZ Alabdeen, NF Brazeau, AAA Elhameed, AS Bin-Ghouth, *A Hamlet*, R AbuKoura, G Barnsley, JA Hay, M Alhaffar, EK Besson, SM Saje, BG Sisay, SH Gebreyesus, AP Sikamo, A Worku, YS Ahmed, DH Mariam, MM Sisay, F Checchi, M Dahab, BS Endris, AC Ghani, PGT Walker, CA Donnelly, OJ Watson
2023

Optimising the deployment of vector control tools against malaria: a data-informed modelling study
The Lancet Planetary Health
E Sherrard-Smith, P Winskill, *A Hamlet*, C Ngufor, R N'Guessan, MW Guelbeogo, A Sanou, RK Nash, A Hill, EL Russell, M Woodbridge, PK Tungu, MD Kont, T Mclean, C Fornadel, JH Richardson, MJ Donnelly, SG Staedke, S Gonahasa, N Protopopoff, M Rowland, TS Churcher
2022

Mapping environmental suitability of Haemagogus and Sabethes spp. mosquitoes to understand sylvatic transmission risk of yellow fever virus in Brazil
PLoS neglected tropical diseases
SL Li, AéL Acosta, SC Hill, OJ Brady, MABd Almeida, JdC Cardoso, *A Hamlet*, LF Mucci, JTd Deus, FCM Iani, NS Alexander, GRW Wint, OG Pybus, MUG Kraemer, NR Faria, JP Messina
2022

Exploring agricultural land-use and childhood malaria associations in sub-Saharan Africa
Scientific reports
HA Shah, LR Carrasco, *A Hamlet*, KA Murray
2022

Feasibility, acceptability, and effectiveness of non-pharmaceutical interventions against infectious diseases among crisis-affected populations: a scoping review
Infectious diseases of poverty
JA Polonsky, S Bhatia, K Fraser, *A Hamlet*, J Skarp, IJ Stopard, Sép Hugonnet, L Kaiser, C Lengeler, K Blanchet, P Spiegel
2022

Understanding the potential impact of different drug properties on severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) transmission and disease burden: A modelling …

Clinical Infectious Diseases

C Whittaker, OJ Watson, C Alvarez-Moreno, N Angkasekwinai, A Boonyasiri, LC Triana, D Chanda, L Charoenpong, M Chayakulkeeree, GS Cooke, J Croda, ZM Cucunubá, BA Djaafara, CF Estofolete, ME Grillet, NR Faria, SF Costa, DA Forero-Peña, DM Gibb, AC Gordon, RL Hamers, *A Hamlet*, V Irawany, A Jitmuang, N Keurueangkul, TN Kimani, M Lampo, AS Levin, G Lopardo, R Mustafa, S Nayagam, T Ngamprasertchai, N'a'aIH Njeri, ML Nogueira, E Ortiz-Prado, MWP Jr, AN Phillips, P Promsin, A Qavi, AJ Rodger, EC Sabino, S Sangkaew, D Sari, R Sirijatuphat, AC Sposito, P Srisangthong, HA Thompson, Z Udwadia, S Valderrama-Beltran, P Winskill, AC Ghani, PGT Walker, TB Hallett

2022

Optimising the deployment of vector control tools against malaria: a data-informed modelling study (vol 6, pg e100, 2022)

LANCET PLANETARY HEALTH

E Sherrard-Smith, P Winskill, *A Hamlet*

2022

Reduction in mobility and COVID-19 transmission

Nature communications

P Nouvellet, S Bhatia, A Cori, KEC Ainslie, M Baguelin, S Bhatt, A Boonyasiri, NF Brazeau, L Cattarino, LV Cooper, H Coupland, ZM Cucunuba, G Cuomo-Dannenburg, A Dighe, BA Djaafara, I Dorigatti, OD Eales, SLv Elsland, FF Nascimento, RG FitzJohn, KAM Gaythorpe, L Geidelberg, WD Green, *A Hamlet*, K Hauck, W Hinsley, N Imai, B Jeffrey, E Knock, DJ Laydon, JA Lees, T Mangal, TA Mellan, G Nedjati-Gilani, KV Parag, M Pons-Salort, M Ragonnet-Cronin, S Riley, HJT Unwin, R Verity, MAC Vollmer, E Volz, PGT Walker, CE Walters, H Wang, OJ Watson, C Whittaker, LK Whittles, X Xi, NM Ferguson, CA Donnelly

2021

Under-reporting of deaths limits our understanding of true burden of covid-19

bmj

C Whittaker, PGT Walker, M Alhaffar, *A Hamlet*, BA Djaafara, A Ghani, N Ferguson, M Dahab, F Checchi, OJ Watson

2021

Within-country age-based prioritisation, global allocation, and public health impact of a vaccine against SARS-CoV-2: A mathematical modelling analysis

Vaccine

AB Hogan, P Winskill, OJ Watson, PGT Walker, C Whittaker, M Baguelin, NF Brazeau, GD Charles, KAM Gaythorpe, *A Hamlet*, E Knock, DJ Laydon, JA Lees, A Løchen, R Verity, LK Whittles, F Muhib, K Hauck, NM Ferguson, AC Ghani

2021

The global burden of yellow fever

Elife

KAM Gaythorpe, *A Hamlet*, K Jean, DG Ramos, L Cibrelus, T Garske, N Ferguson

2021

Leveraging community mortality indicators to infer COVID-19 mortality and transmission dynamics in Damascus, Syria

Nature communications

OJ Watson, M Alhaffar, Z Mehchy, C Whittaker, Z Akil, NF Brazeau, G Cuomo-Dannenburg, *A Hamlet*, HA Thompson, M Baguelin, RG FitzJohn, E Knock, JA Lees, LK Whittles, T Mellan, P Winskill, ICCOVID-19RTBSDBA.DCA.FSGKAMINJELDJ.MSUH.JT.VR 1, N Howard, H Clapham, F Checchi, N Ferguson, A Ghani, E Beals, P Walker

2021

The epidemiology of Mayaro virus in the Americas: A systematic review and key parameter estimates for outbreak modelling

PLoS neglected tropical diseases

E-Y Caicedo, K Charniga, A Rueda, I Dorigatti, Y Mendez, *A Hamlet*, J-P Carrera, ZM Cucunubá

2021

Mental health and psychosocial support in conflict: children's protection concerns and intervention outcomes in Syria

Conflict and health

N Raslan, *A Hamlet*, V Kumari

2021

Database of epidemic trends and control measures during the first wave of COVID-19 in mainland China

International Journal of Infectious Diseases

H Fu, H Wang, X Xi, A Boonyasiri, Y Wang, W Hinsley, KJ Fraser, R McCabe, DO Mesa, J Skarp, A Ledda, T Dewé, A Dighe, P Winskill, SLv Elsland, KEC Ainslie, M Baguelin, S Bhatt, O Boyd, NF Brazeau, L Cattarino, G Charles, H Coupland, ZM Cucunuba, G Cuomo-Dannenburg, CA Donnelly, I Dorigatti, OD Eales, RG FitzJohn, S Flaxman, KAM Gaythorpe, AC Ghani, WD Green, *A Hamlet*, K Hauck, DJ Haw, B Jeffrey, DJ Laydon, JA Lees, T Mellan, S Mishra, G Nedjati-Gilani, P Nouvellet, L Okell, KV Parag, M Ragonnet-Cronin, S Riley, N Schmit, HA Thompson, HJT Unwin, R Verity, MAC Vollmer, E Volz, PGT Walker, CE Walters, OJ Watson, C Whittaker, LK Whittles, N Imai, S Bhatia, NM Ferguson

2021

Assessing the impact of preventive mass vaccination campaigns on yellow fever outbreaks in Africa: A population-level self-controlled case series study

PLoS medicine

Kév Jean, H Raad, KAM Gaythorpe, *A Hamlet*, JE Mueller, D Hogan, T Mengistu, HJ Whitaker, T Garske, MN Hocine

2021

Estimating the number of undetected COVID-19 cases among travellers from mainland China

Wellcome Open Research

CA Donnelly, S Bhatia, N Imai, G Cuomo-Dannenburg, M Baguelin, A Boonyasiri, A Cori, Z Cucunubá, I Dorigatti, R FitzJohn, H Fu, K Gaythorpe, A Ghani, *A Hamlet*, W Hinsley, D Laydon, G Nedjati-Gilani, L Okell, S Riley, H Thompson, Sv Elsland, E Volz, H Wang, Y Wang, C Whittaker, X Xi, NM Ferguson

2021

Estimates of the severity of coronavirus disease 2019: a model-based analysis

The Lancet infectious diseases

R Verity, LC Okell, I Dorigatti, P Winskill, C Whittaker, N Imai, G Cuomo-Dannenburg, H Thompson, PGT Walker, H Fu, A Dighe, JT Griffin, M Baguelin, S Bhatia, A Boonyasiri, A Cori, Z Cucunubá, R FitzJohn, K Gaythorpe, W Green, *A Hamlet*, W Hinsley, D Laydon, G Nedjati-Gilani, S Riley, SV Elsland, E Volz, H Wang, Y Wang, X Xi, CA Donnelly, AC Ghani, NM Ferguson

2020

The impact of COVID-19 and strategies for mitigation and suppression in low-and middle-income countries

Science

PGT Walker, C Whittaker, OJ Watson, M Baguelin, P Winskill, *A Hamlet*, BA Djafaara, Z Cucunubá, DO Mesa, W Green, H Thompson, S Nayagam, KEC Ainslie, S Bhatia, S Bhatt, A Boonyasiri, O Boyd, NF Brazeau, L Cattarino, G Cuomo-Dannenburg, A Dighe, CA Donnelly, I Dorigatti, SLV Elsland, R FitzJohn, H Fu, KAM Gaythorpe, L Geidelberg, N Grassly, D Haw, S Hayes, W Hinsley, N Imai, D Jorgensen, E Knock, D Laydon, S Mishra, G Nedjati-Gilani, LC Okell, HJ Unwin, R Verity, M Vollmer, CE Walters, H Wang, Y Wang, X Xi, DG Lalloo, NM Ferguson, AC Ghani

2020

Potential impact of the COVID-19 pandemic on HIV, tuberculosis, and malaria in low-income and middle-income countries: a modelling study

The Lancet global health

AB Hogan, BL Jewell, E Sherrard-Smith, JF Vesga, OJ Watson, C Whittaker, *A Hamlet*, JA Smith, P Winskill, R Verity, M Baguelin, JA Lees, LK Whittles, KEC Ainslie, S Bhatt, A Boonyasiri, NF Brazeau, L Cattarino, LV Cooper, H Coupland, G Cuomo-Dannenburg, A Dighe, BA Djaafara, CA Donnelly, JW Eaton, SLv Elsland, RG FitzJohn, H Fu, KAM Gaythorpe, W Green, DJ Haw, S Hayes, W Hinsley, N Imai, DJ Laydon, TD Mangal, TA Mellan, S Mishra, G Nedjati-Gilani, KV Parag, HA Thompson, HJT Unwin, MAC Vollmer, CE Walters, H Wang, Y Wang, X Xi, NM Ferguson, LC Okell, TS Churcher, N Arinaminpathy, AC Ghani, PGT Walker, TB Hallett

2020

Comparison of molecular testing strategies for COVID-19 control: a mathematical modelling study

The Lancet Infectious Diseases

NC Grassly, M Pons-Salort, EPK Parker, PJ White, NM Ferguson, K Ainslie, M Baguelin, S Bhatt, A Boonyasiri, N Brazeau, L Cattarino, H Coupland, Z Cucunuba, G Cuomo-Dannenburg, A Dighe, C Donnelly, SLv Elsland, R FitzJohn, S Flaxman, K Fraser, K Gaythorpe, W Green, *A Hamlet*, W Hinsley, N Imai, E Knock, D Laydon, T Mellan, S Mishra, G Nedjati-Gilani, P Nouvellet, L Okell, M Ragonnet-Cronin, HA Thompson, HJT Unwin, M Vollmer, E Volz, C Walters, Y Wang, OJ Watson, C Whittaker, L Whittles, X Xi

2020

The potential public health consequences of COVID-19 on malaria in Africa

Nature medicine

E Sherrard-Smith, AB Hogan, *A Hamlet*, OJ Watson, C Whittaker, P Winskill, F Ali, AB Mohammad, P Uhomoibhi, I Maikore, N Ogbulafor, J Nikau, MD Kont, JD Challenger, R Verity, B Lambert, M Cairns, B Rao, M Baguelin, LK Whittles, JA Lees, S Bhatia, ES Knock, L Okell, HC Slater, AC Ghani, PGT Walker, OO Okoko, TS Churcher

2020

Evidence of initial success for China exiting COVID-19 social distancing policy after achieving containment

Wellcome Open Research

KEC Ainslie, CE Walters, H Fu, S Bhatia, H Wang, X Xi, M Baguelin, S Bhatt, A Boonyasiri, O Boyd, L Cattarino, C Ciavarella, Z Cucunuba, G Cuomo-Dannenburg, A Dighe, I Dorigatti, SLv Elsland, R FitzJohn, K Gaythorpe, AC Ghani, W Green, *A Hamlet*, W Hinsley, N Imai, D Jorgensen, E Knock, D Laydon, G Nedjati-Gilani, LC Okell, I Siveroni, HA Thompson, HJT Unwin, R Verity, M Vollmer, PGT Walker, Y Wang, OJ Watson, C Whittaker, P Winskill, CA Donnelly, NM Ferguson, S Riley

2020

The effect of climate change on yellow fever disease burden in Africa

Elife

KAM Gaythorpe, *A Hamlet*, L Cibrelus, T Garske, NM Ferguson

2020

Eliminating yellow fever epidemics in Africa: vaccine demand forecast and impact modelling

PLoS neglected tropical diseases

Kév Jean, *A Hamlet*, J Benzler, L Cibrelus, KAM Gaythorpe, A Sall, NM Ferguson, T Garske

2020

SARS-CoV-2 infection prevalence on repatriation flights from Wuhan City, China

Journal of travel medicine

HA Thompson, N Imai, A Dighe, KEC Ainslie, M Baguelin, S Bhatia, S Bhatt, A Boonyasiri, O Boyd, NF Brazeau, L Cattarino, LV Cooper, H Coupland, Z Cucunuba, G Cuomo-Dannenburg, B Djaafara, I Dorigatti, SV Elsland, R FitzJohn, H Fu, KAM Gaythorpe, W Green, T Hallett, *A Hamlet*, D Haw, S Hayes, W Hinsley, B Jeffrey, E Knock, DJ Laydon, J Lees, TD Mangal, T Mellan, S Mishra, A Mousa, G Nedjati-Gilani, P Nouvellet, L Okell, KV Parag, M Ragonnet-Cronin, S Riley, HJT Unwin, R Verity, M Vollmer, E Volz, PGT Walker, C Walters, H Wang, Y Wang, OJ Watson, C Whittaker, LK Whittles, P Winskill, X Xi, CA Donnelly, NM Ferguson

2020

International risk of yellow fever spread from the ongoing outbreak in Brazil, December 2016 to May 2017

Eurosurveillance

I Dorigatti, *A Hamlet*, R Aguas, L Cattarino, A Cori, CA Donnelly, T Garske, N Imai, NM Ferguson

2017

Risks posed by Reston, the forgotten ebolavirus

Msphere

D Cantoni, *A Hamlet*, M Michaelis, MN Wass, JS Rossman

2016