Dr Arran Hamlet

Epidemic Intelligence Service Officer

Centers for Disease Control and Prevention, Atlanta, USA

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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.

Education

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*

- Looked at understanding the epidemiology of yellow fever across South America, with a focus on Brazil, examining the roles of climate, environment and host. Employed a variety of statistical and mechanistic modelling techniques. Worked with the WHO, the Brazilian Ministry of Health and the university Fundação Oswaldo Cruz.
- Awarded 3 Medical Research Council (MRC) Exceptional Training Opportunity awards (total £4,589) and a MRC pump priming award (£23,000) to present results and 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*

- 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*

- Focus on Evolutionary Biology and Neuroscience.

Employment

Epidemic Intelligence Service Officer (Washington State Department of Health)

July 2022-

Centers for Disease Control and Prevention — *Seattle, USA*

- **Select projects below.**

- **Lead on an Epi-Aid investigating the rise in detections of Corynebacterium diphtheriae in Washington state**.
  - Co-lead of a multidisciplinary team from local, state and federal agencies, tasked with investigating the increase in C. diphtheriae detections in Washington State, 2018-2023.
  - Organized meetings and coordination with local health jurisdictions and hospital system partners to gain access to medical records for chart abstraction, and to understand the context of the increases.
  - Conducted interviews with laboratory directors to understand changes in testing practices, and with partners providing housing and medical care to those experiencing homelessness.
  - Analysis currently ongoing, focusing on changes in transmission and surveillance, the clinical course and social factors related to the increase in detections.
- **Lead on estimating the prevalence of long COVID in Washington**.
  - Created a mathematical model using WA DOH data to estimate age, sex, race-ethnicity, and county level prevalence of long COVID over time.
  - The method was designed and validated with subject matter experts from WA DOH and the CDC to produce a highly flexible approach that integrated existing data sources with the latest findings from scientific literature.
  - Results presented to CSTE, WA DOH leadership, and used in discussions with the Washington State Senate for long COVID advocacy and the positioning of resources.
  - Manuscript under review and the approach is highlighted in a CSTE position paper.
- **Lead on an outbreak investigation of gastrointestinal illness on the Pacific Crest Trail**.
  - Lead the outbreak investigation and response. This included, survey design, patient interviews, epidemiological analysis and environmental sampling of pit latrines and shared use facilities.
  - The findings led to changes in WA DOH policy on the use of social media in outbreak investigation, a MMWR article was published and presentations given at EIS and CSTE conferences.
- **Evaluation of the rabies surveillance system**.
  - Compared existing rabies mandatory reporting with syndromic surveillance collected from emergency departments and urgent care centers on potential rabies exposures, and with recorded post-exposure prophylaxis.
  - Identified clear gaps in certain counties reporting of rabies, with some of these reporting less than 1 in 10 estimated rabies exposures.
  - Currently assessing whether we can use these alternative data systems to capture a more accurate understanding of human-rabies encounters, and remove potential rabies exposure as a notifiable condition.

- **Tuberculosis in the correctional system.**.
  - Part of the WA DOH team, supervising and responding to Tuberculosis in the WA correctional system following the largest outbreak in decades. Provided leadership and analytical support.
- **Malaria in Uganda and Ethiopia**.
  - Working with the CDC malaria group to analyse a study looking at increasing funding to community healthcare workers during 2021-2022, results currently being written up for a manuscript.
  - Working with the Presidents Malaria Initiative and PATH to provide subnational estimates of the impact of Anopheles stephensi on malaria transmission in Ethiopia.

Visiting Researcher

Jun 2022-

Imperial College London

London, United Kingdom

- Visiting researcher for mathematical and statistical modelling of malaria and yellow fever.
- Provide direction and feedback for projects, reviewing manuscripts and planning strategic research goals.

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.
  - Several of these outputs were used by organizations such as the WHO, IVCC, MedAccess and Ministries of Health to understand the potential benefits of different malaria control strategies and the utility of next generation bednets such as Piperonyl butoxide (PBO) or Interceptor® G2 in areas of high insecticide resistance.
- 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.
  - This piece of work was conducted with Abt Associates and the Presidents Malaria Initiative.
  - The findings were published in BMC Medicine, and have been widely cited by the WHO and PMI in their advocacy work.

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 the Nigerian Government.
- Conducted rapid analysis to answer specific questions in order to provide evidence for policy 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. Work contributed to several peer reviewed papers and numerous position papers.
- Seconded through the Global Outbreak Alert and Response Network to provide analytical support for the WHO in Geneva Feb - Apr 2020 to understand the initial spread of COVID-19.

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).
  - This involved rapid modelling and data analytics to answer questions on the spread and suitability of the environment for transmission, and planning vaccination campaign strategies to stop the outbreak.
  - Hired as a consultant to produce a report on strategies for optimally reducing the risk of yellow fever transmission in Africa, and the potential for global spread.
- 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*

- AppliedEpi is the non-profit behind the Epidemiologist R Handbook, used by almost 2 million epidemiologists worldwide. Since early 2022 they have offered courses teaching applied R coding to epidemiologists, running over a hundred courses for dozens of Ministries of Health globally as well as the WHO, CDC and various other institutions.
- I was responsible for designing and creating several of the modules on data management and analysis, as well as the sole designer and creator of the Advanced Statistics in R course.
- I have lead or demonstrated on courses for almost a dozen agencies, including the Health Departments for Michigan, Wales, Canada, Camobdia, Kazakhstan.
- Currently lead author responsible for a team of epidemiologists writing chapters of data analysis and regression in a field manual for applied epidemiologists.

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.

Funding awards

Course Instructor and Curriculum Designer
Jan 2022 -

AppliedEpi — *Online*

- Curriculum designer and creator, lecturer for courses teaching epidemiologists applied R coding.

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.
- Course was run collaboratively with the Brazilian Ministry of Health and Fundação Oswaldo Cruz (Fiocruz).

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.

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-Jun 2023

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.

Presentations

Estimating the Burden and Distribution of Long COVID in Washington State *Sep 2023*

Western States Modeling Symposium *Virtual*

Gastrointestinal illness among hikers on the Washington State Pacific Crest Trail, August–October 2022. *Apr 2023*

EIS Conference 2023 and CSTE 2023 *USA*

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, USA*

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 - 7

Notes from the Field: Gastrointestinal Illness Among Hikers on the Pacific Crest Trail—Washington, August–October 2022 *Mmwr. Morbidity And Mortality Weekly Report*

A Hamlet *2023*

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 - 31

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

Baylisascaris procyonis Roundworm Infection in Child with Autism Spectrum Disorder, Washington, USA, 2022

Emerging Infectious Diseases

BA Lipton, HN Oltean, RB Capron, A Hamlet , SP Montgomery, RJ Chancey, VJL Konold, KE Steffl

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

Serological evidence of virus infection in Eidolon helvum fruit bats: Implications for Bushmeat Consumption in Nigeria

Frontiers In Public Health

E Giotis

2023

Marburg Virus Disease outbreaks, mathematical models, and disease parameters: a Systematic Review

The Lancet Infectious Diseases

G Cuomo-Dannenburg, K McCain, R McCabe, HJT Unwin, P Doohan, RK Nash, JT Hicks, K Charniga, C Geismar, B Lambert, D Nikitin, J Skarp, J Wardle, M Kont, S Bhatia, N Imai, Sv Elsland, A Cori, C Morgenstern, A Morris, A Dighe, A Hamlet , C Whittaker, D Jorgensen, E Knock, E Unwin, H Thompson, I Routledge, J Hicks, K Fraser, L Geidelberg, L Cattarino, M Baguelin, N Moghaddas, R Nash, S Radhakrishnan, ZC Perez

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

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

Exploring agricultural land-use and childhood malaria associations in sub-Saharan Africa

Scientific Reports

HA Shah, LR Carrasco, **A Hamlet** , KA Murray

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

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

Estimating the effects of non-pharmaceutical interventions on COVID-19 in Europe

Nature

S Flaxman, S Mishra, A Gandy, HJT Unwin, TA Mellan, H Coupland, C Whittaker, H Zhu, T Berah, JW Eaton, Mél Monod, AC Ghani, CA Donnelly, S Riley, MAC Vollmer, NM Ferguson, LC Okell, S Bhatt

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

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