

SENIOR SERVICE FELLOW

Centers for Disease Control and Prevention

☑arranh92@gmail.com | ☑arranhamlet | ☐arranhamlet

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.
- 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

• Focus on Evolutionary Biology and Neuroscience.

London, United Kingdom

Employment.

Senior Service Fellow

July 2024-

CENTERS FOR DISEASE CONTROL AND PREVENTION

Seattle, USA

• Working within the Center for Forecasting and Outbreak Analytics's INFORM division as the liason between the CDC's modeling work and State, Tribal, Local, and Territorial Health Departments. Primarily working on the estimation of time-varying effective reproductive number, and wastewater informed forecasting for influenza and COVID-19.

Epidemic Intelligence Service Officer (Washington State Department of Health)

July 2022-July 2024

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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.

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Seattle, USA

- · 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

- 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

London, United Kingdom

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 economic and disease burden 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.



Course Instructor and Curriculum Designer

Jan 2022 -

APPLIEDEPI

- AppliedEpi is the non-profit behind the Epidemiologist R Handbook, used by almost 3 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 US CDC, WHO, and health departments for numerous US states, Wales, Canada, Camobdia, Kazakhstan.
- Currently lead author and editor, responsible for a team of epidemiologists writing chapters on data analysis, regression, and outbreak investigation, 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 and awards

Inagural Research Paper of the Year

October 2024

PREVENTING CHRONIC DISEASE

Awarded the journal Preventing Chronic Disease's, inagural 'Research Paper of the Year' award for my paper 'Estimating the Burden and Distribution of Post–COVID-19 Condition in Washington State, March 2020–October 2023'.

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

• 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 - 8

Estimating the Burden and Distribution of Post-COVID-19 Condition in Washington State,	Preventing Chronic Disease
March 2020-October 2023	2004
A HAMLET, D HOFFMAN, S SAYDAH, I PAINTER	2024
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, K BEGLEY, S MIKO, L STEWART, W TELLIER, JG-D LEON, H BOOTH, S LIPPMAN, A KAHLER, A ROUNDTREE, A HATADA, S LINDQUIST, B MELIUS, M GOLDOFT, M MATTIOLI, M HOLSHUE	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 - 37	
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	
	2024
DIGHE, A HAMLET , C WHITTAKER, D JORGENSEN, E KNOCK, E UNWIN, H THOMPSON, I ROUTLEDGE, J HICKS, K FRASER, L	2024
	2024
DIGHE, A HAMLET, C WHITTAKER, D JORGENSEN, E KNOCK, E UNWIN, H THOMPSON, I ROUTLEDGE, J HICKS, K FRASER, L	2024 The Lancet Global Health
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 Lassa fever outbreaks, mathematical models, and disease parameters: a systematic	
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 Lassa fever outbreaks, mathematical models, and disease parameters: a systematic review and meta-analysis	
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 Lassa fever outbreaks, mathematical models, and disease parameters: a systematic review and meta-analysis P DOOHAN, D JORGENSEN, TM NAIDOO, K MCCAIN, JT HICKS, R MCCABE, S BHATIA, K CHARNIGA, G CUOMO-DANNENBURG, A	The Lancet Global Health
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Kumar, A Ghani, S Bhatt, TS Churcher

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

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

PLoS Neglected Tropical Diseases

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

Emerging Infectious Diseases

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BA LIPTON, HN OLTEAN, RB CAPRON, A HAMLET, SP MONTGOMERY, RJ CHANCEY, VJL KONOLD, KE STEFFL

Frontiers In Public Health

Serological evidence of virus infection in Eidolon helvum fruit bats: implications for

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D Cantoni, M Mayora-Neto, M Derveni, KD Costa, JD Rosario, VO Ameh, CT Sabeta, B Auld, **A Hamlet**, IM Jones, E Wright, SD Scott, ES Giotis, AC Banyard, N Temperton

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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

Mapping environmental suitability of Haemagogus and Sabethes spp. mosquitoes to understand sylvatic transmission risk of yellow fever virus in Brazil

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

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Feasibility, acceptability, and effectiveness of non-pharmaceutical interventions against infectious diseases among crisis-affected populations: a scoping review

JA POLONSKY, S BHATIA, K FRASER, A HAMLET, J SKARP, IJ STOPARD, SÉP HUGONNET, L KAISER, C LENGELER, K BLANCHET, P

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

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Reduction in mobility and COVID-19 transmission

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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

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

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Within-country age-based prioritisation, global allocation, and public health impact of a	
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The global burden of yellow fever	Elife
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The epidemiology of Mayaro virus in the Americas: A systematic review and key	DL of Noologted Transact Disagrees
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Leveraging community mortality indicators to infer COVID-19 mortality and	Natura Camanunia atiana
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	
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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	
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FERGUSON	
Assessing the impact of preventive mass vaccination campaigns on yellow fever	
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Kév Jean, H Raad, KAM Gaythorpe, A Hamlet , JE Mueller, D Hogan, T Mengistu, HJ Whitaker, T Garske, MN Hocine	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	THE LUTICEL IHIECTIONS DISENSES
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The impact of COVID-19 and strategies for mitigation and suppression in low-and	
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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	2020

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

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

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

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

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

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

WHITTLES, JA LEES, S BHATIA, ES KNOCK, L OKELL, HC SLATER, AC GHANI, PGT WALKER, OO OKOKO, TS CHURCHER

KEC Ainslie, CE Walters, H Fu, S Bhatia, H Wang, X XI, M Baguelin, S Bhatt, A Boonyasiri, O Boyd, L Cattarino, C

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

KAM GAYTHORPE, A HAMLET, L CIBRELUS, T GARSKE, NM FERGUSON

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

Green, A HAMLET, W HINSLEY, D LAYDON, G NEDJATI-GILANI, S RILEY, SV ELSLAND, E VOLZ, H WANG, Y WANG

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

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Journal Of Travel Medicine

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

HA THOMPSON, N IMAI, A DIGHE, KEC AINSLIE, M BAGUELIN, S BHATIA, S BHATTA, 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

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

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

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Risks posed by Reston, the forgotten ebolavirus

D CANTONI, A HAMLET, M MICHAELIS, MN WASS, JS ROSSMAN

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