

# Arran Hamlet

POSTDOCTORAL RESEARCHER

Global Infectious Disease Analysis, School of Public Health, Imperial College London

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## Education

### Imperial College London

London, United Kingdom

PHD IN INFECTIOUS DISEASE MODELLING

2017-2020

- PhD thesis titled 'Yellow fever in South America: The role of environment and host on transmission dynamics'.
- Project focused on understanding the epidemiology of yellow fever across South America, and in focus in Brazil, using climate, environment and host using a variety of statistical and mechanistic modelling techniques.
- Awarded 3 Medical Research Council Exceptional Training Opportunity awards (total £) to present results as well as teach and run workshops in Brazil and Colombia to Ministries of Health and Universities.
- Supervised by Dr Tini Garske and Professor Neil Ferguson.

### Imperial College London

London, United Kingdom

MSC IN EPIDEMIOLOGY

2014-2015

- 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.'

### Queen Mary University of London

London, United Kingdom

BSc IN BIOLOGY WITH PSYCHOLOGY

2011-2014

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

## Employment

### Imperial College London

London, United Kingdom

POSTDOCTORAL RESEARCHER

Jan 2020-

- 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 commissioned by Abbott and the Presidents Malaria Initiative to assess the potential impact of Anopheles stephensi establishment on malaria transmission in the Horn of Africa.

### Imperial College London

London, United Kingdom

PHD IN INFECTIOUS DISEASE MODELLING

Jan 2017 - Jan 2020

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

### Imperial College London

London, United Kingdom

RESEARCH ASSISTANT

Oct 2015 - Dec 2016

- 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

### World Health Organization

Geneva, Switzerland

EPIDEMIOLOGIST: COVID-19

Feb 2020 - Apr 2020

- 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.

### World Health Organization

Geneva, Switzerland

EPIDEMIOLOGIST: YELLOW FEVER

Jul 2016 - Sep 2016

- 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.

## Oxygen Systems

London, United Kingdom

### EPIDEMIOLOGIST

Feb 2016 - Mar 2016

- 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

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### Imperial College London

London, United Kingdom

#### MSC DISSERTATION SUPERVISOR

May 2020 - Oct 2020

- 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.

### Imperial College London

London, United Kingdom

#### GRADUATE TEACHING ASSISTANT

Jan 2017 -

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

### Imperial College London

London, United Kingdom

#### SHORTCOURSE DEMONSTRATOR

September 2017/September

2018/September 2019

- Demonstrator on the departments 'Mathematical modelling for the control of infectious diseases' short course, run since 1990 and designed to teach public health professionals about infectious disease modelling.

### Imperial College London

Bogota, Colombia

#### SHORTCOURSE DEMONSTRATOR

June 2020

- 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.

### Imperial College London

London, United Kingdom

#### DESIGN AND IMPLEMENTATION OF AN ONLINE PLATFORM FOR TEACHING INFECTIOUS DISEASE MODELLING

Jan 2019 - Sept 2019

- Responsible for liaising 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.

## Publications

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- O'Hara-Wild, M., & Hyndman, R. (2020). *Vitae: Curriculum vitae for r markdown*. <https://CRAN.R-project.org/package=vitae>
- Müller, K., & Wickham, H. (2020). *Tibble: Simple data frames*. <https://CRAN.R-project.org/package=tibble>