Case studies

Case study
Ebola outbreak

- LFI is well suited for infectious disease epidemiology

- Simulating the dynamics of the disease at individual-level enables flexibility not achievable in traditional models

- In this case study we demonstrate modern LFI using the Ebola haemorrhagic fever outbreak in West Africa in 2014 as the example

  - We estimate the basic reproduction number R_0

    - the mean value of secondary infections caused by infectee when no countermeasures are in place