

## Derek Cummings

The goal of Dr. Cummings's research is to understand the temporal and spatial dynamics of the spread of infectious diseases in order to guide interventions to control their spread. His research includes analyses of spatial-temporal patterns of infectious disease spread and theoretical approaches to simulate the spread of pathogens in populations. Using simulations, he studies the impact of vaccines and other public health interventions as well as behavioral adaptations in response to the spread of infectious diseases. He is specifically interested in the dynamics of dengue hemorrhagic fever, influenza, and measles.

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