Stanford



Benjamin Singer

Bio

BIO

Ben Singer is a postdoctoral scholar with interests in mathematical epidemiology and global public health. Ben's research career began with an internship at the Okinawa Institute of Science and Technology, where he applied quantitative skills he had learnt studying physics at the University of Oxford to the study of nematode locomotion. Ben further pursued quantitative methods in life sciences in the Interdisciplinary Bioscience Doctoral Training Partnership at the University of Oxford, earning a DPhil (PhD equivalent) in mathematical methods for evaluating pandemic risk and control. During these studies he maintained an interest in global public health policy, interning with the UK government's Department for International Development, where he developed models of international COVID-19 vaccine distribution. Ben is now working in Nathan Lo's research group at Stanford, creating infectious disease models informing public health policy for schistosomiasis, hepatitis E, and other infections.

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

Publications

PUBLICATIONS

- **Comparing Phylogeographies to Reveal Incompatible Geographical Histories within Genomes.** *Molecular biology and evolution*
  Singer, B., Di Nardo, A., Hein, J., Ferretti, L.
  2024

- **Development of prediction models to identify hotspots of schistosomiasis in endemic regions to guide mass drug administration.** *Proceedings of the National Academy of Sciences of the United States of America*
  Singer, B. J., Coulibaly, J. T., Park, H. J., Andrews, J. R., Bogoch, I. I., Lo, N. C.
  2024; 121 (2): e2315463120