



# TB Modelling and Analysis Consortium

Dear <<First Name>>,

Welcome to the latest TB Modelling and Analysis Consortium ([TB MAC](#)) newsletter, with information for TB modellers, epidemiologists, and decision-makers. This newsletter contains details of a job opportunity at the Bill & Melinda Gates Foundation, PhD opportunities at the London School of Hygiene and Tropical Medicine and papers from our community.

## **Job opportunity: Senior Program Officer in Data Analytics & Modeling, Bill & Melinda Gates Foundation [deadline 2 December]**

The TB and HIV Delivery Team is recruiting a Senior Program Officer in Data Analytics and Modeling, who will support the Deputy Director in Evidence Generation in achieving its impact goals by supporting implementation of the foundation's HIV & TB Delivery Data strategy. The role will integrate with key technical/functional colleagues within the team and across the matrix, while also working with external partners to drive progress toward the Foundation's goals. More information is available [here](#).

## **PhD opportunities: London School of Hygiene and Tropical Medicine [deadline 22 January]**

The London School of Hygiene and Tropical Medicine is offering multiple PhD opportunities through the Medical Research Council [London Intercollegiate Doctoral Training Partnership](#) programme. This includes three TB modelling projects:

- [Estimating the effect of heterogeneity in vaccine hesitancy on the impact of tuberculosis vaccines in South Africa](#)
- [Assessing tuberculosis vaccine efficacy using subclinical disease outcomes](#)
- [Evaluating the impact and mitigation of climate change on tuberculosis](#)

See [here](#) for further details on the application process or contact Nicky McCreesh ([nicky.mccreesh@lshtm.ac.uk](mailto:nicky.mccreesh@lshtm.ac.uk)), Tom Sumner ([tom.sumner@lshtm.ac.uk](mailto:tom.sumner@lshtm.ac.uk)) or Finn McQuaid ([finn.mcquaid@lshtm.ac.uk](mailto:finn.mcquaid@lshtm.ac.uk)) for project-specific discussions.

## **Papers**

[Kafie et al](#) review the cost-effectiveness of digital technologies for TB treatment adherence support

[Getchell et al](#) model improved diagnostic testing for DR-TB in high burden settings

[Swartwood et al](#) estimate the effects of the COVID-19 pandemic on TB outcomes in the United States

[Bezuidenhout et al](#) evaluate the cost-effectiveness of sputum and tongue swab molecular testing for diagnosis of TB in household contacts

[Hallett et al](#) estimate resource use in the public-sector health-care system and the effect of strengthening health-care services in Malawi

[Rosen et al](#) model TB preventive treatment for pregnant people with HIV in South Africa

[Zhai et al](#) estimate the epidemiologic impact of age-targeted vaccination for DR-TB

[Bashir et al](#) calculate the cost-effectiveness of diagnostic technologies for M.tb infection in India and Brazil

[Kumar et al](#) analyse TB burden, progress, and future projections in South Asia

[Nandi et al](#) model TB transmission with vaccination and reinfection

[Kalizhanova et al](#) model TB transmission dynamics in Kazakhstan

For more information on TB MAC, or to get involved, please contact any of the [TB MAC Committee](#), visit [www.tb-mac.org](http://www.tb-mac.org) or email us directly at [tb-mac@lshtm.ac.uk](mailto:tb-mac@lshtm.ac.uk).

Best wishes,

Richard, Finn, Christina and the TB MAC Committee

[www.tb-mac.org](http://www.tb-mac.org)

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