

GEOSPATIAL TECHNIQUES ✨ AND ARTIFICIAL INTELLIGENCE IN TUBERCULOSIS RESEARCH

April 24, 2026
9-10 AM

Virtual via Zoom

<https://zoom.us/j/93867240723>

To understand the transmission of *M. tuberculosis* in the community, it is important to know the settings and geographic locations of transmission events. We have used mobile digital technologies, geospatial methods, and AI to track the movements of tuberculosis cases before diagnosis, during their infectious periods, as a proxy for transmission. We will present the novel methods used to estimate trajectories of cases and have found heterogeneity of mobility that can be explained in part by demographic and epidemiologic characteristics. Our findings may help to inform new community-based interventions.



Angela Yao, PhD, Professor,

Department of Geography, University of Georgia (UGA)



Hao Yang, PhD, Ezra Postdoctoral Associate,

Department of Systems Engineering, Cornell University



Christopher Whalen, MD, Holbrook

Professor of Global Health, Global Health Institute, UGA

Join us to learn about the potential of AI to impact your TB research!