



COLUMBIA UNIVERSITY MAILMAN SCHOOL OF PUBLIC HEALTH

722 West 168th Street, New York, NY 10032 www.publichealth.columbia.edu

Position Title: Associate Research Scientist

Basic Information – ID: 86855

Location: New York, NY

Position Type: Officer of Research

Position URL: apply.interfolio.com/98706

Position Description

The Department of Environmental Health Sciences at Columbia University Mailman School of Public Health seeks an Associate Research Scientist for work on infectious disease modeling. The successful candidate will support multiple projects investigating nonlinear error growth in infectious disease systems and developing model-inference frameworks for simulation of infectious agents, inference of critical epidemiological characteristics, counterfactual simulations, and projections and forecasting. The scientist will join a dynamic team of computational biologists, epidemiologists, and mathematicians studying a range of infectious diseases, including influenza, COVID-19, malaria, dengue and anti-microbial resistant organisms.

The successful candidate will support multiple projects investigating nonlinear error growth in infectious disease systems and developing model-inference frameworks for simulation of infectious agents, inference of critical epidemiological characteristics, counterfactual simulations, and projections and forecasting. Expected duties include:

Conducts research on infectious diseases, deriving novel mathematical and statistical frameworks and applying them to infectious disease systems and questions (75%)

Develops new research projects in collaboration with larger scientific team (10%)

Writes up and presents findings in public talks, scientific conferences, and peer-reviewed journals (10%)

Performs related duties & responsibilities as assigned/requested. (5%)

Qualifications

Candidates applying for this position must hold a doctoral degree in Computational Biology, Mathematics, Statistics, Epidemiology or a related discipline, and at least two years postdoctoral research experience. Experience programming in languages such as Matlab, R, or Python is required.

Persons with a strong background and interest in Bayesian statistics, machine learning, data mining, mathematical modeling and infectious disease dynamics are encouraged to apply.

Application Instructions:

Interested candidates must apply at position URL: apply.interfolio.com/98706 or company website, Careers at Columbia, [Academic Jobs | Careers at Columbia](#) ASR Job Board and search for ID: 86855.

Equal Employment Opportunity Statement

Columbia University is an Equal Opportunity Employer / Disability / Veteran