

Post-doc in HIV modeling

We are seeking a post-doc to start immediately in the Division of Epidemiology at Vanderbilt University Medical Center (VUMC), in HIV modeling. The post-doc will work on a project using agent-based modeling to evaluate the role of pre-exposure prophylaxis (PrEP) in HIV elimination in key US cities. The post-doc will be encouraged to craft his or her own analyses based on their interests, as well as address the overall aims of the study. As a new study, the post-doc will have an opportunity to leave an important mark on future analyses and infuse it with their own expertise and interests.

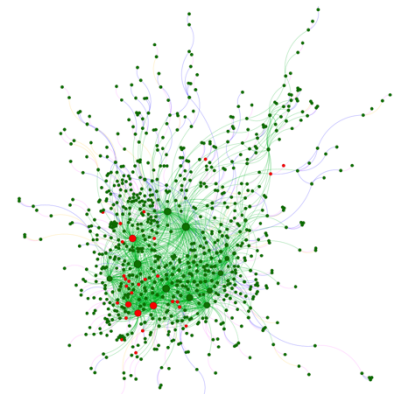
Relevant areas of inquiry include disparities in PrEP access/use among different communities, the role of PrEP in the context of combination HIV prevention, HIV test and treat strategies, and the impact of sexually transmitted infections on PrEP strategies. Innovative approaches that will add to the study aims and methods are highly encouraged, as well as identification of new opportunities for future grant work.

The position will be under the mentorship of Dr. Daniel Escudero, within the Division of Epidemiology. Mentorship will include access to exceptional infectious disease and HIV expertise at Vanderbilt, and support to further the post-doc's career (e.g., K-award preparation). The post-doc will have the benefits of a great study team, including research and programming support, and a collaborative environment within VUMC, Vanderbilt University, and the Tennessee Center for AIDS Research (CFAR).

A successful candidate should have the following qualifications:

1. A Ph.D., Sc.D., M.D., or equivalent in a related field (e.g., epidemiology, computational biology, infectious diseases).
2. Relevant research experience and publication record.
3. Experience in agent-based modeling, network modeling, simulation modeling, or related methods is highly valuable, though those with experience in other types of epidemiologic modeling (e.g., compartmental, SIR/SEIR) are also encouraged to apply.
4. Excellent writing skills and proficiency in English.

Interested candidates are encouraged to send a CV and statement of interests to Dan Escudero by e-mail at Daniel.escudero@vumc.org.



Example of model network graph