



## Clinic on Meaningful Modeling of Epidemiological Data

May 29 – June 9, 2017

African Institute of Mathematical Sciences, South Africa

### *Request for Applications*

The International Clinics on Infectious Disease Dynamics and Data (ICI3D) Program invites applications to the seventh annual Clinic on Meaningful Modeling of Epidemiological Data (MMED). This 2-week modeling clinic will bring together graduate students, postdoctoral scholars, and other researchers from North America and Africa, with the goal of engaging the participants in epidemiological modeling projects that use real data to grapple with practical questions in a meaningful way.

The Clinic will consist of a series of lectures, discussions, and tutorials that will guide participants through the process of developing data-based, dynamical models of disease spread and using models to answer public health questions. Participants are encouraged to bring data sets and questions to the Clinic, and to start collaborative projects with each other or the organizers. Various statistical and dynamical modeling paradigms will be explored. Computer exercises and group projects will reinforce and extend the concepts covered, and participants will gain experience using tools such as R, R Studio, git, and GitHub for collaborative projects. Please review the schedule from MMED 2016 (<http://www.ici3d.org/MMED2016/schedule>) for additional information on the topics covered.

During the first week of the Clinic, all participants will be required to present on previous or ongoing research that is related to the Clinic's themes. Participants are encouraged to continue research projects begun during the Clinic when they return to their home institutions and will be required to complete a written report on group projects.

Students and researchers with a demonstrated interest in infectious disease research are encouraged to apply. The Clinic is targeted towards participants with strong quantitative backgrounds and some prior knowledge of mathematical modeling in epidemiology but limited experience integrating data and models to address applied questions in infectious disease dynamics.

Funding is available to cover room, board, and travel costs for a limited number of Clinic participants from the US and Africa. The application process for the Clinic is highly competitive. Preference will be given to applicants that have the most to gain from Clinic participation. **The deadline for receipt of applications is 5pm Eastern (New York) on February 6, 2017 for North American applicants and on February 20, 2017 for African applicants.** Late or incomplete applications will not be considered. A description of the application procedure, eligibility requirements, and all necessary forms are located online and can be accessed through the Program's website:

**<http://www.ici3d.org/mmed>**

The Clinic on Meaningful Modeling of Epidemiological Data (MMED) is part of the International Clinics on Infectious Disease Dynamics and Data (ICI3D) Program. Development of the program was supported by the National Institute of General Medical Science of the U.S. National Institutes of Health under award number R25GM102149. Support for MMED 2017 is provided the South African DST-NRF Centre of Excellence in Epidemiological Modelling and Analysis (SACEMA) and the Center for Inference and Dynamics of Infectious Diseases (CIDID), a Center of Excellence of the NIGMS/NIH-MIDAS program.