



Mahaliana
IT ALWAYS STARTS WITH A QUESTION

E²M²: Ecological and Epidemiological Modeling in Madagascar

January 6-14, 2020

Institut Pasteur de Madagascar, Antananarivo & Centre ValBio, Ranomafana National Park

Applications available at:

E2M2.org

Deadline: Friday, November 8, 2019

We are pleased to announce the fourth annual *E2M2: Ecological and Epidemiological Modeling in Madagascar* clinic to be held January 6-12, 2020 at Centre ValBio, Ranomafana National Park, Madagascar, with an optional 'R bootcamp' on January 3-5 and a mandatory closing session on January 14, both at Institut Pasteur de Madagascar in Antananarivo. The clinic will be an eight-day intensive workshop aimed to provide an introduction to the use of statistical and dynamical models in understanding ecological and epidemiological data.

Students will participate in a series of interactive lectures and computer-based tutorials and learn to fine-tune model-based research questions, develop clear model frameworks and corresponding equations, and fit models to real-world data. All students will work closely with peers and faculty to develop a research plan for an ongoing or existing project integrating dynamical modeling with data collection and/or analysis in a biological system of their choice. These research plans can then be used as a foundation for future dissertation or grant proposals. Materials from last year's course are available for your perusal at: E2M2.org/E2M2_2019

The course will be targeted towards students in their third cycle or higher in biology, mathematics, medicine, public health, or related fields, though **all are welcome to apply**. The course will be taught primarily in English, though a subset of the faculty will be available to offer some translation into French and/or Malagasy. A working knowledge of the English language is required for admission; however, we will do our best to make the material accessible to students who find English challenging. If you have any questions about the appropriateness of your background or training for our course, either in language or in science, please do not hesitate to contact us straight away (email below).

Funding is available to cover transportation from Antananarivo to Ranomafana and back, in addition to room and board throughout the duration of the clinic for all participants (lodging in Antananarivo not included). International applicants are welcome to apply but will need to provide their own funding for travel to Madagascar. The application process is expected to be highly competitive.

Applications are available for submission at E2M2.org and must be completed and uploaded by midnight on **Friday, November 8, 2019** if you wish to be considered.

Please do not hesitate contact Cara Brook (cbrook@berkeley.edu), Tanjona Ramiadantsoa (ramiadantsoa@wisc.edu) or Fidisoa Rasambainarivo (fidy@mahaliana.org) with any questions or concerns. We hope to see you in January!

–The E²M² instructor team

Cara Brook, Tanjona Ramiadantsoa, Fidy Rasambainarivo,

Clara Champagne, Andres Garchitorea, Sarah Guth, Hafaliana Christian Ranaivoson

Please note that many of the materials and methods used in were adapted from the International Clinics on Infectious Disease, Dynamics, and Data: <http://www.ici3d.org/>

