Ph.D. position available at the University of Hawai‘i at Mānoa

We invite applications for one Graduate Research Assistant position in the Department of Atmospheric Sciences at the University of Hawai‘i at Mānoa (UHM).

About the project

Stable water isotopes have proved to be useful tools in many fields related to Earth science, including hydrology, paleoclimatology, and forest ecology, just to cite few examples. Despite their potential to reveal important information about atmospheric dynamics, this research area remains relatively unexplored.

We are looking for a candidate for a Ph.D. position to investigate how convective processes affect the isotopic composition of atmospheric water vapor and rainfall. We will approach this topic in two ways: a numerical approach, using a combination of a state-of-the-art isotopic-enabled cloud resolving model and a Lagrangian particle model; and with observational data, which will be collected in Hawai‘i. Results from this research will help develop new diagnostic tools for the study of atmospheric systems and also improve the interpretation of isotope records.

About the applicant

The candidate is expected to have a bachelor’s degree in atmospheric sciences, mathematics, physics, or a related field, with a strong interest in atmospheric dynamics. A background in atmospheric science and excellent coding skills are an advantage. The candidate should speak fluent English and have excellent communication and interpersonal skills. The successful applicant must complete the UHM Office of Graduation application process and be accepted into the UHM Atmospheric Sciences Ph.D. program.

About us

The University of Hawai‘i at Mānoa is an R1 Research University and considered a global leader in earth and environmental sciences. The Department of Atmospheric Sciences is part of the School of Ocean and Earth Science and Technology (SOEST). SOEST is one of the world’s most active schools in the geosciences, with about 200 faculty members who study a wide variety of phenomena related to the physics, chemistry and biology of the Earth, ocean, and atmosphere. Among its many facilities, SOEST also features the Biogeochemical Stable Isotope Facility, run by Professor Brian Popp, where data collected for this project will be analyzed. SOEST also has over 180 graduate students and over 500 professional and technical staff members.

What to do

Prospective candidates interested in the position are invited to contact Dr. Giuseppe Torri directly (gtorri@hawaii.edu). Send an updated CV, unofficial copies of transcripts, publications (if applicable), and contact information for three references.