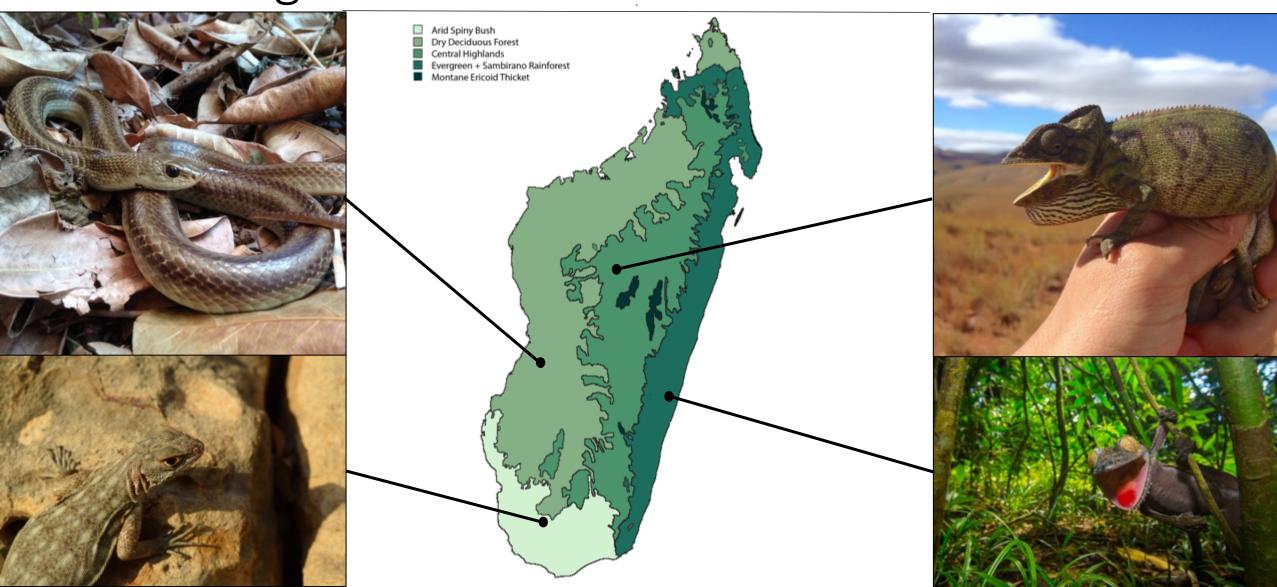


Madagascar is an isolated landmass with sharply contrasting habitats



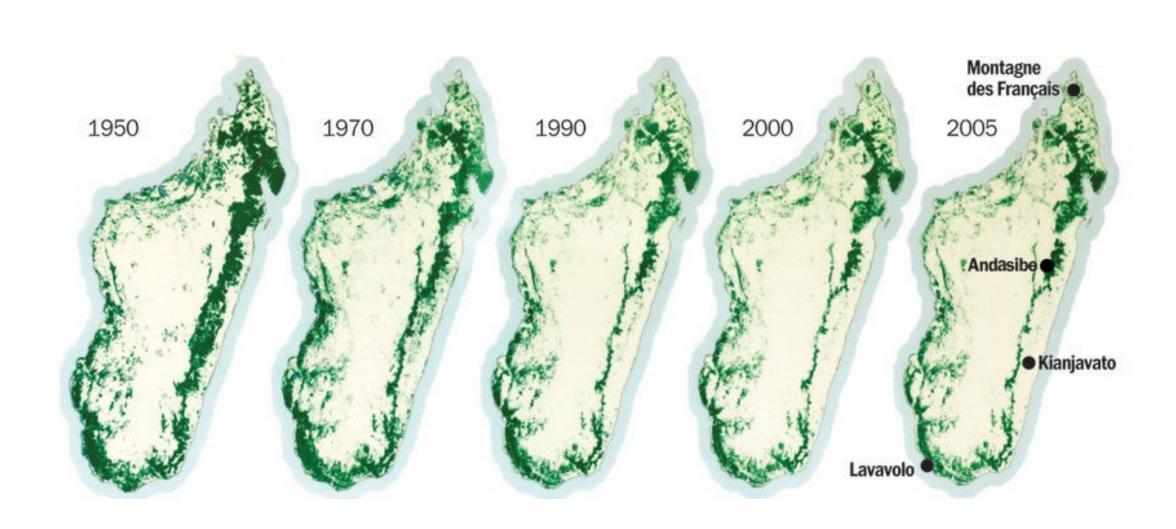


These habitats may have driven observed patterns of extreme species richness and endemism





Right now, as little as 8% of the original forest remains

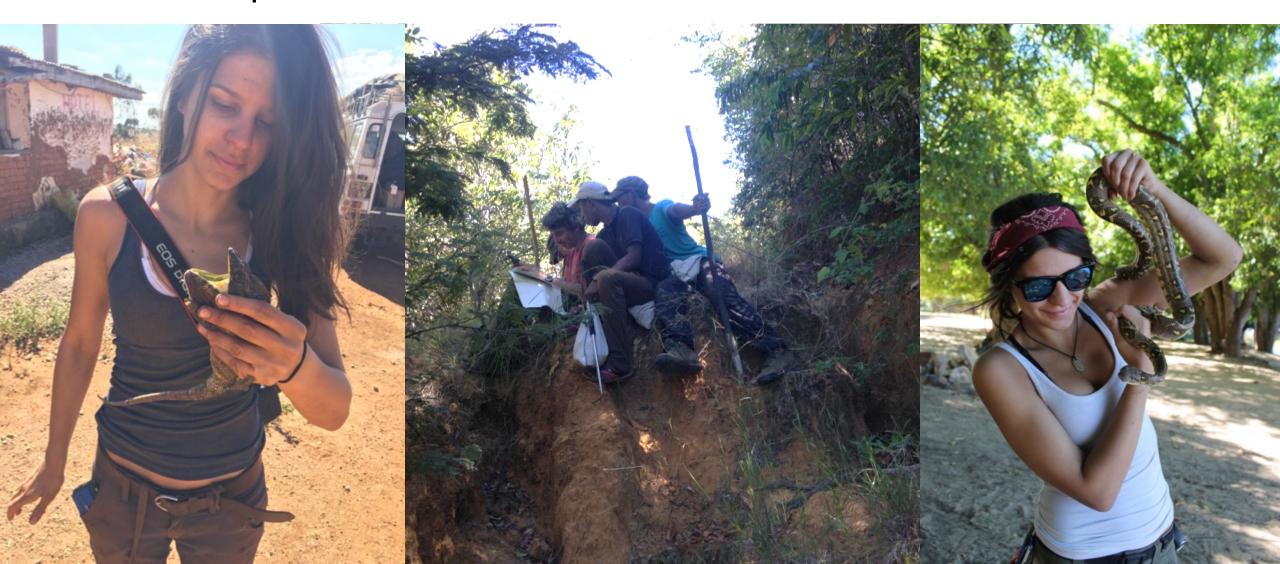




I am working with a team that has been exploring new regions of Madagascar for the past 30 years

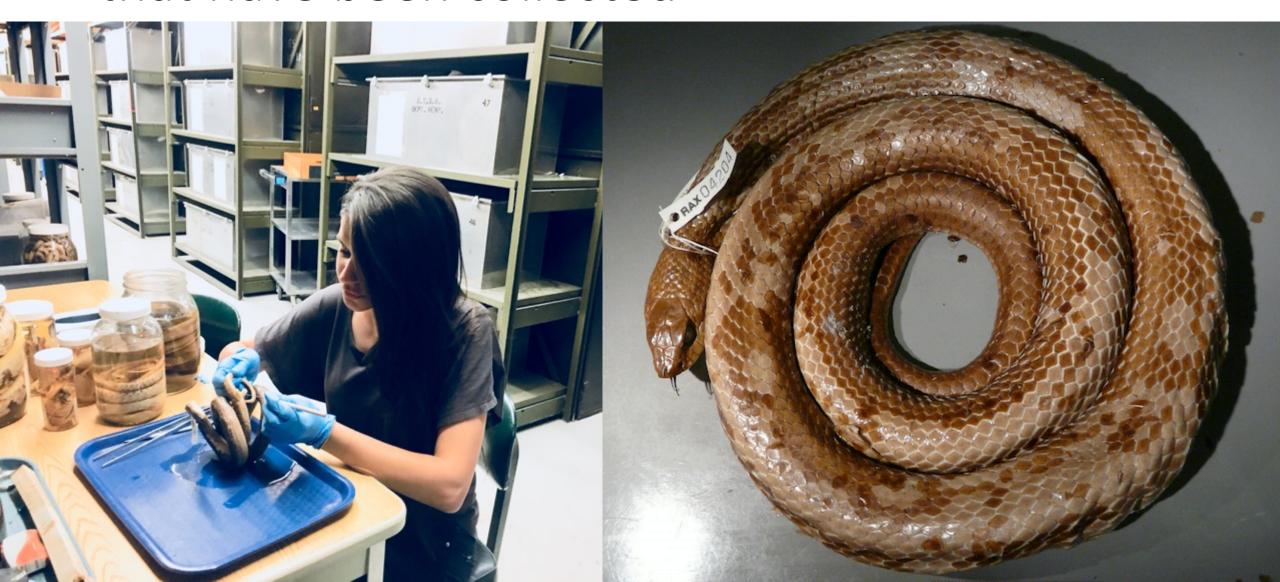


This team surveys new areas for amphibians and reptiles that have never been studied





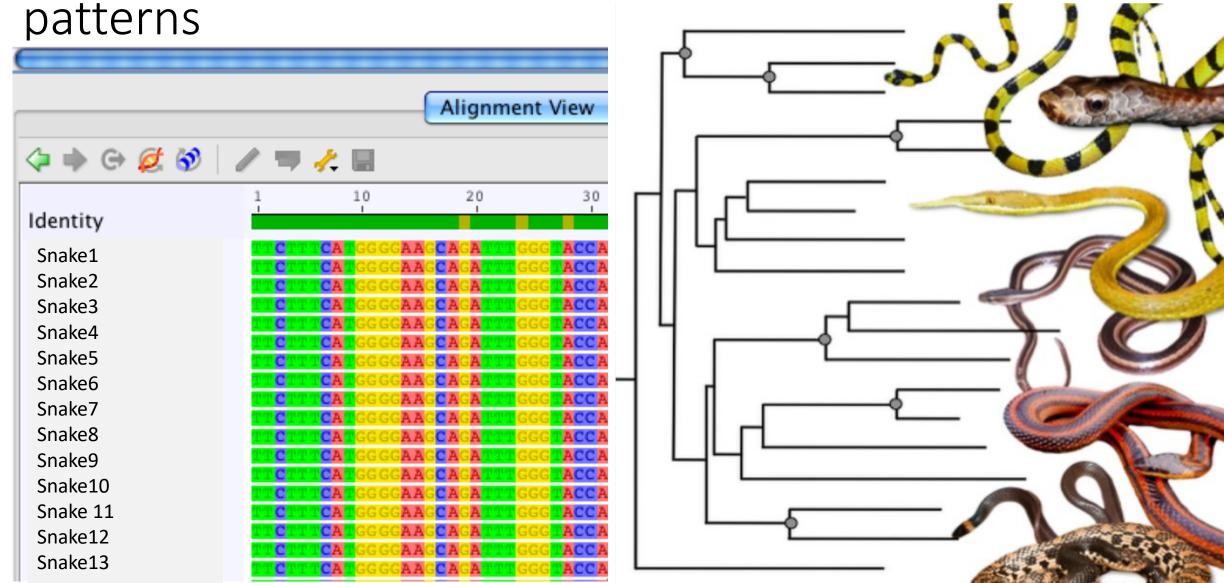
Back at the museum, we study specimens that have been collected



And we also extract DNA from tissues collected in the field



Using this DNA & computer programs, we can determine evolutionary history and speciation



In particular, right now I am studying a group called the 'gemsnakes'





DNA and external characteristics can be used to identify new species



TRILOBITES

The New Ghost Snake in Madagascar

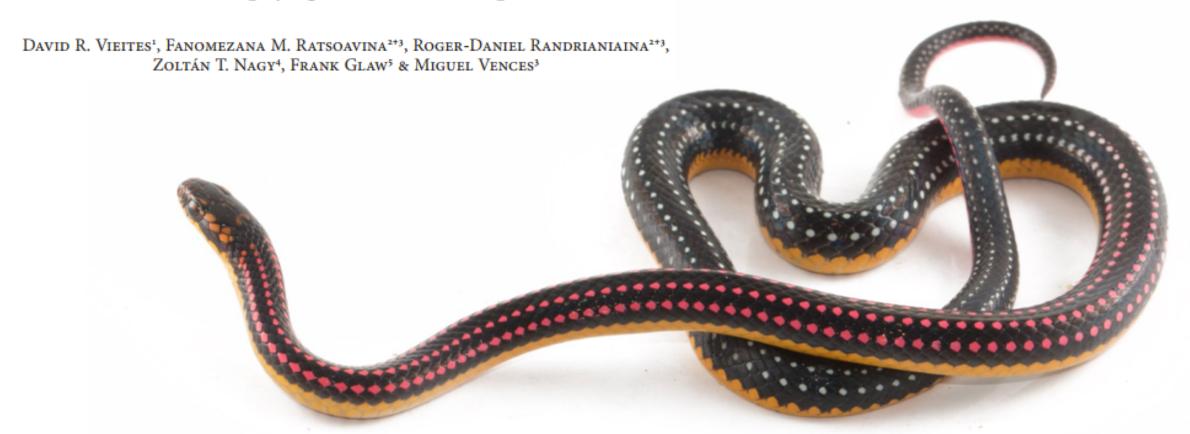




A newly discovered species of cat-eyed snake in Madagascar, Madagascarophis lolo. Christopher J. Raxworthy/American Museum of Natural History

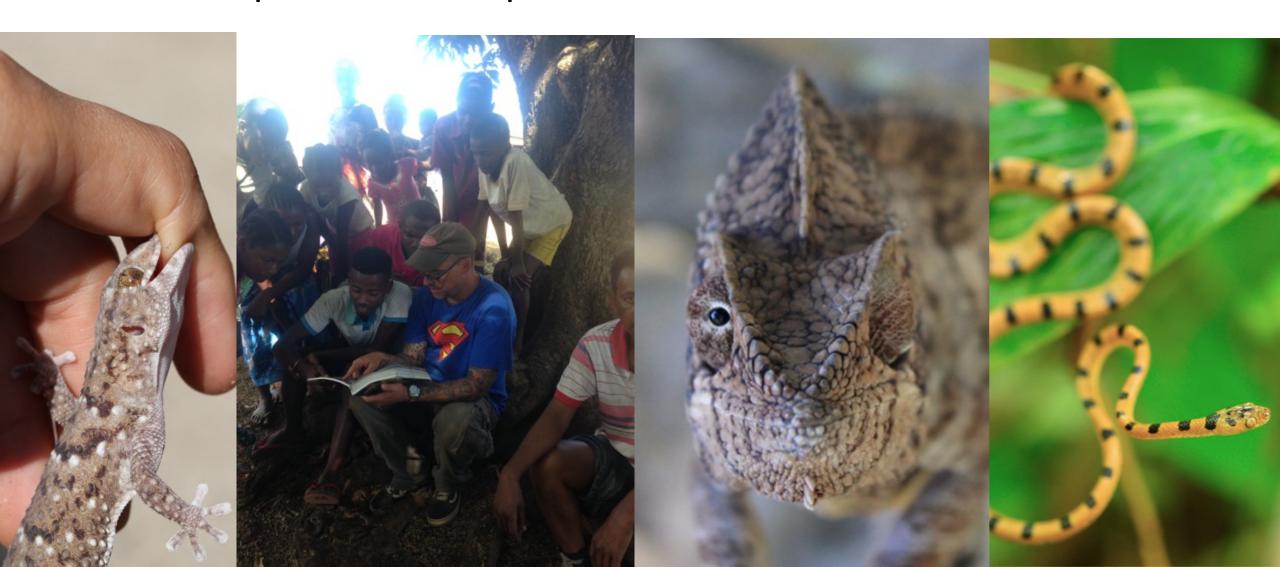
PC: @Sara and Snakes

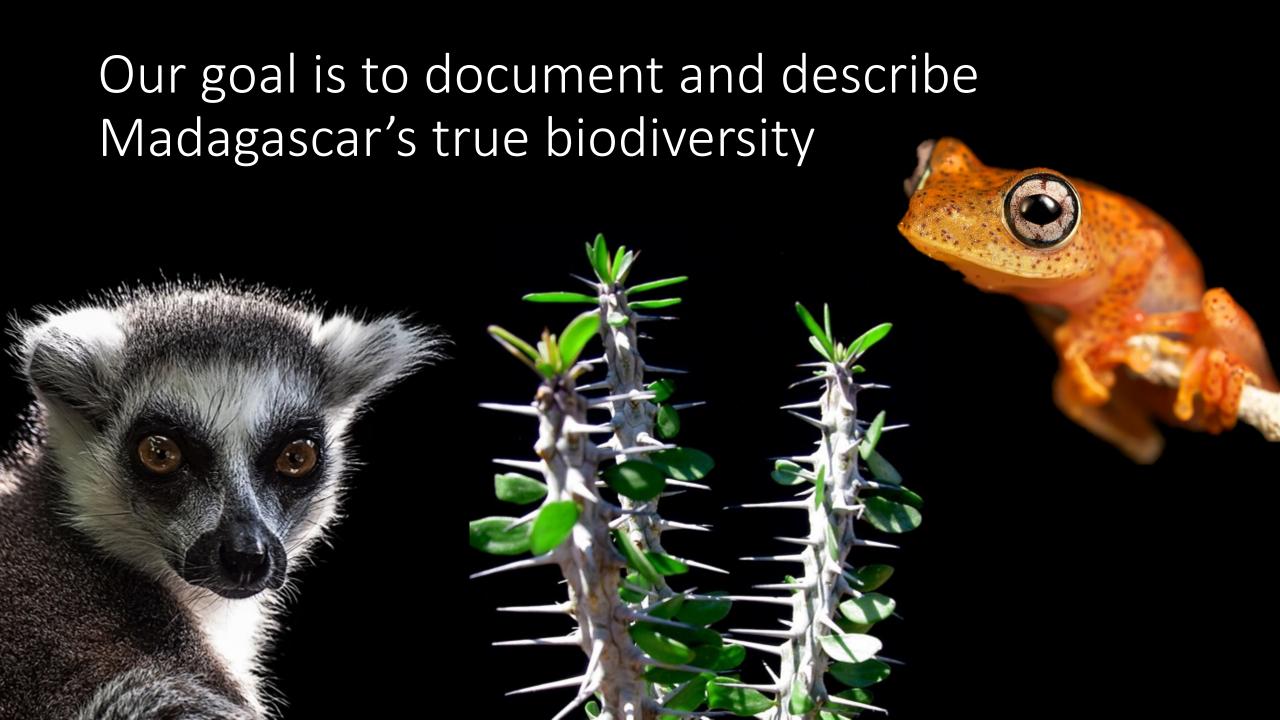
A rhapsody of colours from Madagascar: discovery of a remarkable new snake of the genus *Liophidium* and its phylogenetic relationships



PC: @CarlHutter

We can only protect these species if we know what species are present





To inform conservation decisions that will protect this beautiful and unique biota

