Position in Statistical Ecology
We seek a candidate with demonstrated expertise using scientific programming languages (R, Python, Matlab) to conceptualize, develop, and fit a variety of advanced spatial/spatiotemporal statistical models to ecological data including both physical and biological aspects of rainforest ecosystems and biodiverse species assemblages. This is a one-year position with possibilities for extension. The successful candidate will help conceive and implement solutions to large, complex spatial and spatiotemporal ecological modeling challenges, including modeling of species' distributions. The individual must have a MSc or PhD in ecology/biology, statistics, or closely related field by the start of employment. We expect to see demonstrated experience publishing scientific papers in quantitative ecology. Must have proficiency with programming, spatial analysis and statistics in GIS and R, and be able to develop and implement hierarchical statistical models using both Bayesian and frequentist methods. This position requires high level of expertise executing models in R, Matlab, and Python. The successful candidate will have demonstrated ability to independently identify, analyze, and solve complex spatial statistical modeling challenges, working with large data sets and computationally complex tasks. Experience with AI and machine learning a plus.

- Develop and implement model selection, performance assessment, and validation.
- Synthesize and interpret model outputs, including maps.
- Contribute to peer-reviewed publications.
- Provide statistical guidance to team members.
- Conduct data management skills using Excel using knowledge of MS SQL and macro programming.

The work can be based anywhere the candidate can find workspace and access to computing facilities. However, the preferred option is being based in the field in the Peruvian Amazon for candidates who wish to experience the real-world context where the data is gathered. We need a biostatistician, but we are not averse to the person being involved in some sampling efforts. We are expecting the person to play a strong role in suggesting experimental designs that would improve our insights and ability to answer ecological questions. There is a team of 5-6 people in the field ranging from experienced PhD level to graduate student and undergraduate assistants drawn from Peru, Colombia, Europe and North America. The working languages are English and Spanish.

Candidates must be willing to frequently and verbally engage with the project PIs and to provide frequent and systematic scheduled progress updates. We hope be submitting one manuscript every two months to peer-reviewed journals based on data already accumulated so being organized and disciplined about task completion is essential. This is not a routine 9-5 job. It is ideal for a driven individual who wants to build a career in this field based on a high level of productivity and creativity. You should be someone driven by a passion for ecology and seeking an understanding of biodiverse systems.

Interest candidates should submit a CV, statement of their relevant interests, information on time of availability, salary expectation, COVID vaccination status, and potential willingness to be based in the Peruvian Amazon.

Write to: adrianforsyth@gmail.com with the subject heading Biostatistics position.