

Postdoctoral Associate in Bayesian Community Modeling

The position is focused on the development and application of novel Bayesian models and computational methods for characterizing biological communities. Model and methodology development will be concretely motivated by high-dimensional and complex biological data sets. Challenges include multi-dimensionality, discrete and composition data structure, large sample sizes, and hierarchical, spatial and temporal dependence. The emphasis will be on developing models that can realistically characterize the data structure, along with efficient computational algorithms for reliable and efficient inference.

The candidate will be co-mentored by Professors David Dunson of the Department of Statistical Science at Duke University and Otso Ovaskainen head of the Mathematical Biology Group at the University of Helsinki. In particular, 50% of the time will be spent at Duke and 50% at the University of Helsinki. The ideal candidate will be finishing a PhD in Statistics, Computer Science, Mathematics or a related field and will have background in Bayesian hierarchical modeling and computation. The position would start as soon as possible.

Please contact David Dunson via email at dunson@duke.edu to submit an application (CV and brief informal statement of research interests) and make inquiries.