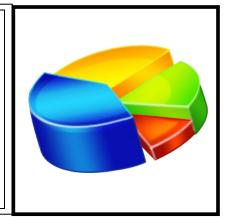
STATISTICS SEMINAR

Nels Johnson, Ph.D. Colorado State University

Wednesday, March 11, 2015 Leasure Hall, Room 13, 4:00-5:00 pm Refreshments: Dickens 108, 3:30-4:00 pm



Mis-measured microbial communities and other topics in statistical ecology

Abstract:

Microbial communities are difficult to measure. The focus of this talk is on a particular source of measurement error: choice of primer sets in multiple primer set DNA system. This issue is addressed using a hierarchical Bayesian multinomial model with matched community measurements. The model is implemented on communities of methane consuming soil bacteria collected as a part of the Great Plains Methane project. Results will be interpreted along with a discussion of further applications and extensions.