

BIOSTATISTICS SEMINAR



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Robust methods for heterogeneous data collected in studies of the human microbiome.

I will present work from my group in collaboration with David Relman on combining data from studies of perturbations that effect the human microbiome. Many of these studies are longitudinal and can be enhanced with methods such as the bootstrap or Bayesian nonparametrics. However, before the confirmatory analyses can be carried out, a set of important choices have to be made in preprocessing the data. Simple variance - stabilization and standardization methods can have assumptions that are too stringent, so we combine nonparametric approaches that simplify the transformation choices. I will show how in multidomain settings, we need to combine graphs, trees, contingency tables of reads and metabolite abundances both in unsupervised and supervised workflows.

Thursday August 22, 2019

3:30 pm - 4:30 pm

Blue Cross and Blue Shield of North Carolina Foundation Auditorium



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