Bridging the gap - Bayesian contributions to survey sampling inference

Abstract: Bayesian contributions to survey sampling inference have been few, but they are very significant. This talk describes the multinomial model for finite populations, and the use of empirical likelihood and the Bayesian bootstrap for frequentist and Bayesian inference respectively. Extensions of the Bayesian approach allow for clustering and stratification in a fully Bayesian posterior framework, and also provide formal procedures for goodness of fit of parametric models.