Regression models for group testing data

Joshua M. Tebbs, Department of Statistics, University of South Carolina

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Group testing, where measurements are taken on pools of individuals, is widely used in infectious disease screening and in other areas. In this talk, I will present a brief survey of regression methodologies proposed in the literature to model group testing data. I will also discuss how advances in modeling group testing data leads to informative classification algorithms that can be used to screen individuals for disease or drug use.