

# Recent developments in linear and generalized linear mixed models

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Generalized linear mixed models have become very popular for analyzing correlated data. These models are useful for modeling the dependence among response variables inherent in longitudinal or repeated measures studies, and for producing shrinkage estimators in multiparameter problems such as the construction of maps of small area disease rates. In this talk, I will discuss recent developments in three major topics (spatial models, small area estimation, and measurement errors in covariates) in details, if time permits.