The potential of Generalized Linear Mixed Models

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It is common knowledge now that Generalized Linear Mixed Models rely on a random component, a link function, and a linear component with covariates that have fixed and random effects. The family of Generalized Linear Mixed Models (GLMM) is larger than is commonly thought. The GLMM framework includes random intercept models, such as the Rasch model, multilevel models, various multidimensional models, among which also some structural equation models, but also the Birnbaum (2PL) model and one approach for ordered-category data. All these models and some thus far new models can be formulated as GLMMs.

Finally, seeing latent variable models as GLMMs can resolve the controversy on the epistemological status of latent variables as causal or summary variables.