



Encontros com a Estatística

**Departamento de Estatística/UFJF
Comemoração do Dia do Estatístico**

30 / 05 / 2016
(SEGUNDA-FEIRA)

14h

AUDITÓRIO

DEPARTAMENTO DE
ESTATÍSTICA

PRÉDIO NOVO

**Palestrante: Professor Marcel de Toledo Vieira
(UFJF)**

Impacts of Complex Sampling on Latent Growth Curve Modelling

Resumo

We investigate the impacts of complex sampling on point and standard error estimates in latent growth curve modelling of survey data. Methodological issues are illustrated with empirical evidence from the analysis of longitudinal data on life satisfaction trajectories using data from the British Household Panel Survey, a national representative survey in Great Britain. A multi-process second-order latent growth curve model with conditional linear growth is used to study variation in the two perceived life satisfaction latent factors considered. The benefits of accounting for the complex survey design are considered, including obtaining unbiased both point and standard error estimates, and therefore correctly specified confidence intervals and statistical tests. We conclude that, even for the rather elaborated longitudinal data models that were considered, estimation procedures are affected by variance-inflating impacts of complex sampling.