

Prof. Luiz Paulo Lopes Fávero

READING SUGGESTION:

Material available at "Pecege Library". ([Access Tutorial Bibliotecas](#)):

- Fávero, L.P. 2017. **Manual de análise de dados: estatística e modelagem multivariada com Excel, SPSS e Stata**. Elsevier.

Material available at "USP Library". ([Access Tutorial Bibliotecas](#)):

- Fávero, L.P.; Belfiore, P.; Santos, M.A. 2020. **Overdisp: a Stata (and Mata) package for direct detection of overdispersion in Poisson and negative binomial regression models**. Statistics, Optimization & Information Computing.
 - v. 8, p. 773-789
- Fávero, L.P.; Hair Jr, J.F.; Souza, R.F.; Albergaria, M.; Brugni, T.V. 2021. **Zero-Inflated Generalized Linear Mixed Models: A Better Way to Understand Data Relationships**. Mathematics.
- Fávero, L.P.; Souza, R.F.; Belfiore, P.; Corrêa, H.L.; Haddad, M.F.C. 2021. **Count Data Regression Analysis: Concepts, Overdispersion Detection, Zero-inflation Identification, and Applications with R**. Practical Assessment, Research, and Evaluation.
- Fávero, L.P.; Belfiore, P. 2019. **Data science for business and decision making**. Cambridge: Academic Press.

Material available on the web

- Gardner, W.; Mulvey, E.P.; Shaw, E.C. 1995. **Regression Analyses of Counts and Rates: Poisson, Overdispersed Poisson, and Negative Binomial Models**. PubMed. [Link](#)
- Lambert, D. 1992. **Zero-inflated Poisson regression, with an application to defects in manufacturing**. Technometrics. [Link](#)

- Vuong, Q. 1989. **Likelihood Ratio Tests for Model Selection and Non-Nested Hypotheses**. [Link](#)
- Fávero, L.P. 2019. **Machine Learning e modelos supervisionados: o uso correto do GLM na tomada de decisão**. It Forum. [Link](#)

Books and Articles:

- Cameron, A.C.; Trivedi, P.K. 2013. **Regression Analysis of Count Data**. Cambridge University Press.
- Cameron, A.C.; Trivedi, P.K. 1990. **Regression-based tests for overdispersion in the Poisson model**. Journal of Econometrics.
- Desmarais, B.A.; Harden, J.J. 2013. **Testing for zero inflation in count models: bias correction for the Vuong test**. Stata Journal.
- Famoye, F.; Singh, K.P. 2006. **Zero-inflated generalized Poisson regression model with an application to domestic violence data**. Journal of Data Science.
- Gupta, P.L.; Gupta, R.; Tripathi, R.C. 1996. **Analysis of zero-adjusted count data**. Computational Statistics & Data Analysis.
- Tang, W.; He, H.; Tu, X. 2012. **Applied categorical and count data analysis**. Editora CRC Press.
- Xie, F.C.; Wei, B.C.; Lin, J.G. 2008. **Assessing influence for pharmaceutical data in zero-inflated generalized Poisson mixed models**. Statistics in Medicine.
- Yau, K.K.W.; Wang, K.; Lee, A.H. 2003. **Zero-Inflated Negative Binomial Mixed Regression Modeling of Over-Dispersed Count Data with Extra Zeros**. Biometrical Journal