Prof. Luiz Paulo Lopes Fávero

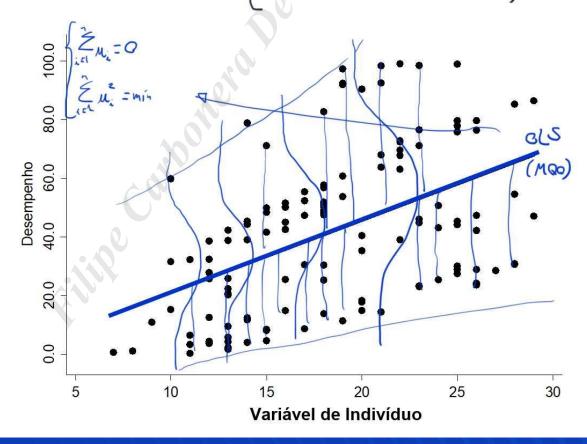
PRINTS FEITOS DURANTE A AULA DE 17/09/2024:

- Modelos Multinível. -Modelos Hierarquicos.
-HLM (Hierarchical Linear Models - Mixed Models

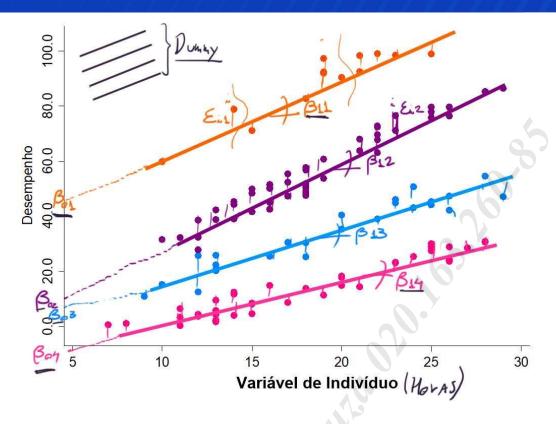
Modelos Lineares Generalizados Multinível (GLMM)

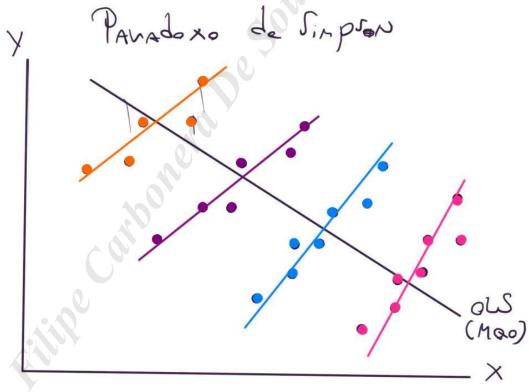
Linear and Latert Multiland Madels)

- Nested Madels (Aninhados)
- No Jelos Chaxtuais
- RCM (Randon Cefficient
Madels)





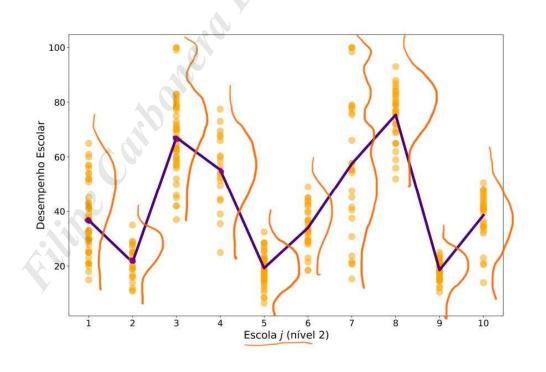


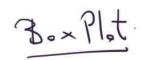


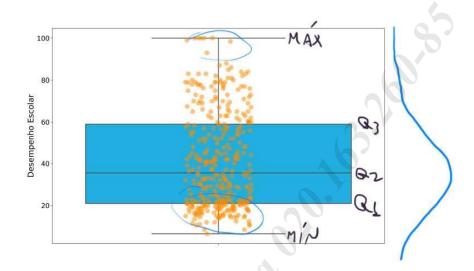




$$Y_{ij} = \underbrace{\gamma_{00} + \gamma_{10}.X_{ij} + \gamma_{01}.W_j + \gamma_{11}.W_j.X_{ij}}_{\textbf{Efeitos Fixos}} + \underbrace{V_{0j} + \underbrace{V_{1j}.X_{ij}}_{\textbf{Efeitos Aleatórios}}}_{\textbf{Var}(v_{0j}) \stackrel{?}{=} O} \\ \underbrace{V_{Ar}(v_{0j}) \stackrel{?}{=} O}_{\textbf{Var}(v_{0j}) \stackrel{?}{=} O} \\ \underbrace{V_{Ar}(v_{0j}) \stackrel{?}{=} O}_{\textbf{Var}(v_{0j}) \neq O} \\ \underbrace{V_{Ar}(v_{0j}) \stackrel{?}{=} O}_{\textbf{$$







Step-up Stratepy.

- Modelo Nulo (Doj)

- Modelo Int. e Incl. Alectoria (Dij)

- Modelo Completo (X, W).

Efector Fixor.



Mixed Linear Model Regression Results

Model: MixedLM Dependent Variable: desempenho
No. Observations: 358 Method: REML
No. Groups: 10 Scale: Var (E) 142.9242
Min. group size: 20 Log-Likelihood: 142.9242
Max. group size: 48 Converged: Yes
Mean group size: 35.8

Coef. Std.Err. z P>|z| [0.025 0.975

EF. Va Intercept 42.387 6.468 6.553 0.000 29.709 55.065

VAr (vo y) escola Var 414.067 16.695

 $desempenho_{ij} = 42,387 + v_{0j} + \varepsilon_{ij}$

ICC= 414,067 = 74,34%.

(intraclass (socia) 414,067 + 142,9242 = 74,34%.

Chrelation) escolar

