

Recap 2024-05-13

(1)

- Repeated Observations  
⇒ New class of models: Linear Mixed Effects Model (LME)

Before: Fixed Linear Effects Models

- Regression coefficients
  - Factor effects
- } fixed effects  
not associated with variation

- Random error / residuals

↳ variation, can model by  $\text{var}(e) \Rightarrow I \cdot \sigma_e^2$

LME: Additional random effect in the model

⇒ Account for specific structure in variation pattern of data

- Application of LME: • Prediction of breeding values