

Sound font size music. small

I ~ group of subject i

Levels music.

medium lorge

 $y_i|g_i, \mu, \sigma^2 \stackrel{ind}{\sim} N(\mu_{g_i}, \sigma^2)$ $g_i \in \{1, ..., G\}, i=1, ..., n$

Alternative

$$E(y_{i}) = \beta_{0} + \beta_{i} \wedge A_{i} + \dots + \beta_{G-1} \wedge A_{G-1}, i$$

$$T(g_{i}=1) \qquad T(g_{i}=G-1)$$

4's are indicators or dummy variables

A, B ~ Factors

6 treatment groups

Additive model: (good for no interactions between factors) $E(y_i) = \mu + \alpha_2 I(a_i = 2) + \beta_2 I(b_i = 2) + \beta_3 I(b_i = 3)$

No. 937 011E Findinger's Committedian $\begin{cases}
Y \\
X \\
E(y_i|X)
\end{cases}$

 y_i / ϕ_i and Bernoulli (ϕ_i) , i=1,...,nIn linear regression = $E(y_i) = \beta_0 + \beta_i \chi_{ii}$

\$ is probability of

 $\frac{\phi}{1-\phi} \Leftrightarrow \text{odds}$ $\log\left(\frac{\phi}{1-\phi}\right) \Leftrightarrow \text{logit link}$ $\log_{i}\left(\phi_{i}\right) = \log\left(\frac{\phi_{i}}{1-\phi_{i}}\right) = \beta_{0} + \beta_{1} \times_{1i}$ $E(y_{i}) = \phi_{i} = \exp\left(\beta_{0} + \beta_{1} \times_{1i}\right)$

 $E(y_i) = \phi_i' = \exp(\beta_0 + \beta_i \chi_{ii})$ $1 + \exp(\beta_0 + \beta_i \chi_{ii}) = \frac{1}{1 + e^{-(\beta_0 + \beta_i \chi_{ii})}}$

Yil Ki, B ind Bernoulli (1+exp[-Both, Kii+...+Bh Kni])