

# Errata for Generalized, Linear, and Mixed Models

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## Errata

1. p.37, (2.22). In the equation for SSE,  $\bar{y}.$  should be  $\bar{y}_i$ .
2. p.38, l.16. E 2.17 should be E 2.4.
3. p.42, l.9.  $\hat{\sigma}^2 = (\text{MSA}-\text{MSE})/n$  should be  $\hat{\sigma}_a^2 = (\text{MSA}-\text{MSE})/n$
4. p.107, l.-4. E 3.8 should be E 3.15.
5. p.112, l.4. E 3.16 should be E 2.19.
6. p.108, l.2. The covariance term is missing a piece. It should also include 
$$- \int_{-\infty}^{+\infty} \frac{1}{1+e^{-(\alpha+a_i+\beta x_{ij})}} \frac{1}{\sqrt{2\pi\sigma_a^2}} e^{-\frac{1}{2\sigma_a^2} a_i^2} da_i \times \int_{-\infty}^{+\infty} \frac{1}{1+e^{-(\alpha+a_i+\beta x_{ik})}} \frac{1}{\sqrt{2\pi\sigma_a^2}} e^{-\frac{1}{2\sigma_a^2} a_i^2} da_i.$$
7. p.165, (6.28); p.166, (6.34) and p.167, l.h.s. of (6.39)  $(\mathbf{X}'\mathbf{V}^{-1}\mathbf{X})$  should be  $(\mathbf{X}'\mathbf{V}^{-1}\mathbf{X})^-$ .
8. p.179, l.1.  $f(\mathbf{y}|\mathbf{u}, \mathbf{V})$  should be  $f(\mathbf{y}|\boldsymbol{\mu}, \mathbf{V})$
9. p.179, l.-1.  $(\mathbf{y} - \boldsymbol{\mu})' \mathbf{V}^{-1} \frac{\partial^2 \boldsymbol{\mu}}{\partial \boldsymbol{\theta} \partial \boldsymbol{\theta}'}$  should be  $\left\{ {}_c (\mathbf{y} - \boldsymbol{\mu})' \mathbf{V}^{-1} \frac{\partial^2 \boldsymbol{\mu}}{\partial \theta_i \partial \boldsymbol{\theta}'} \right\}$ .
10. p.188, l.4. On the r.h.s. brace,  $i = 1$  should be  $j = 1$ .
11. p.188, l.13. The second  $\mathbf{1}'_m$  should be  $\mathbf{1}_m$ .
12. p.188, (7.4). The index on the r.h.s. brace should range from  $j = 1$  to  $n$ .

13. p.202, below (10.58)  $+\frac{1}{2}|\mathbf{Z}'\mathbf{WZD}/\tau^2 + \mathbf{I}|$  should be  $-\frac{1}{2}|\mathbf{Z}'\mathbf{WZD}/\tau^2 + \mathbf{I}|$
14. p.303, l.14. There should be no  $\sigma^2$ , i.e., this is only true for  $\sigma^2 = 1$ .
15. p.303, l.3.  $\text{tr}(\mathbf{AVBV})$  should be  $\text{tr}(\mathbf{AVBV}) + 4\boldsymbol{\mu}'\mathbf{AVB}\boldsymbol{\mu}$ .