
ERRATA

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Corrections

In the following, the page numbers refer to the hard copy.

1. Page 6: “The VGAM family uninormal() implements (1.3)-(1.4),” should be “The VGAM family uninormal(zero = NULL) implements (1.3)-(1.4),”.

2. Page 27, Section 1.5.2.5: “...because males just born ...” should be “...because females just born ...”.

3. Page 30: Package zelig should be Zelig.

4. Page 52 (Fig. 2.4 caption): mcycles should be mcycle. Similarly for p. 87 (Ex. 2.17) and p. 586 (index).

5. Page 65 (Eqn. 2.57): the subscript $q$ should be $Q$:

$$f(x) = \sum_{s=1}^{K+Q-1} \beta_s B_{s,Q}(x),$$

6. Page 113–4, Example 2, which includes Figure 3.1: We really want to fit the model

$$\Pr(Y = j) = \frac{\exp[\beta_{(j)1} + f_{(1)2}(x_{i2j}) + \beta_{(1)3}x_{i3j} + \beta_{(1)4}x_{i4j}]}{\sum_{k=1}^{4}\exp(\eta_k)}$$

for some smooth function $f_{(1)2}$ and for $j = 1, 2, 3, 4 = M + 1$. That is, we allow the effect of $x_2$ to be nonlinear. The reason for this is greater interpretability. But what is actually fitted is $h_{(1)2}^*(x_{i2j} - x_{i24})$ for some function $h^*$; this is less interpretable. See the complements for the correction.

7. Page 169, the line just prior to Section 5.2.1: “so that $H_2 = I_M$” should be “so that $H_2 = I_M$”.

8. Page 177, Section 5.5.2.2: first paragraph: “...or COZIGAMs, and there was an R package by the same name”. Evidently COZIGAM was removed from CRAN in mid-2012.

9. Page 257, midway: One of the terms for Fit3 is sm.poly(sm.scale(x4), 2, raw = TRUE).

10. Page 328, Figure 11.3: $1.92 \approx 3.84/2 \approx 1/2 \chi^2_{1}(0.05)$ should be used to obtain the LRT 95% confidence interval. Evidently, $3.84 \approx \chi^2_{1}(0.05)$ had been used. See the corrected figure.

11. Page 315, Exercise 10.10: binom2.or(exchangeable = TRUE, zero = NULL) is correct, rather than binom2.or(exchangeable = TRUE, ZERO = NULL).
12. Page 327: Package COUNTS should be COUNT.

13. Page 346, Equation (12.4) can be better written

\[ \frac{1}{\theta_2} f\left( \frac{y - \theta_1}{\theta_2} \right), \]

14. Page 386, equation (14.5):

\[ -E\left( \frac{\partial^2 \ell_i}{\partial p_{ij}} \right) \text{ should be } -E\left( \frac{\partial^2 \ell_i}{\partial p^2_{ij}} \right). \]

15. Table 14.1, Page 388: \( \Pr(Y \leq j) \) has \texttt{propodds(reverse = FALSE)} and not \texttt{propodds(reverse = TRUE)}.

16. Repeatedly throughout the text: “an RR-VGLM” should be “a RR-VGLM”.

17. Section 14.4.2, Page 401 bottom: the code chunk ends with

```r
matplot(with(pneumo, let), predict(np.npom.pneumo, untransform = TRUE),
  type = "b", col = 1:3,
  ylab = "Pr(Y>=j), j = 2, 3", pch = c("2", "3"),
  xlab = "Log exposure time", main = "(c)"
```

That is, arguments \texttt{ylab} and \texttt{pch} have been changed.

18. Table 18.5, Page 508: \texttt{interleave.VGAM(L, M)} is now \texttt{interleave.VGAM(.M, M1)}. The code in the book will work unchanged because the change in argument names is a compromise solution.

19. Page 547, last displayed equation:

\[ (\hat{\theta} - \theta_0) \mathcal{I}_O(\theta_0) (\hat{\theta} - \theta_0) = U(\theta_0) \mathcal{I}_O(\theta_0) U(\theta_0) \]

should be

\[ (\hat{\theta} - \theta_0) \mathcal{I}_O(\theta_0) (\hat{\theta} - \theta_0) = U(\theta_0) \mathcal{I}_O(\theta_0)^{-1} U(\theta_0) \]

20. Page 555, Eqn.(A.50): the sign before the summation is “−” rather than “+”, i.e.,

\[ \psi(x) = \log x - \frac{1}{2} x - \sum_{k=1}^{\infty} \frac{B_{2k}}{2k x^{2k}} = \log x - \frac{1}{2} x - \frac{1}{12} x^2 + \cdots. \]

Thanks to the following people for picking up some of the above errors: Russell Millar, Cajo ter Braak.