Remarks and corrections for second and later printings of:
Generalized Latent Variable Modeling


Datasets and do-files

Major corrections

• P. 70
There are some errors in the text. The corrected page can be downloaded [here](#).

• P. 74
There are some errors in the text. The corrected page can be downloaded [here](#).

• P. 176, third equation
The expression for $c_{jr}^{MC}$ should be:

$$c_{jr}^{MC} = \frac{\prod_i g(y_{ij}|Q^k_{jr}; \vartheta^k)}{\sum_r \prod_i g(y_{ij}|Q^k_{jr}; \vartheta^k)},$$

• P. 176, fifth equation
The expression for $c_{jr}^{GH}$ should be:

$$c_{jr}^{GH} = \frac{\prod_i g(y_{ij}|Q^k_{jr}; \vartheta^k)}{\sum_r \prod_i g(y_{ij}|Q^k_{jr}; \vartheta^k)},$$

• P. 210
There are some errors in the text. The corrected page can be downloaded [here](#).

• P. 211
There are some errors in the text. The corrected page can be downloaded [here](#).

• P. 352
There are some errors for the BIC’s in Table 11.2 and the surrounding text. The corrected page can be downloaded [here](#).

• P. 354
There are some errors for the BIC’s in Table 11.4 and the surrounding text. The corrected page can be downloaded [here](#).

• P. 409, Table 13.7
For model $M_0$: Estimate $-0.37 (0.34)$ should be for class 3 whereas estimate $-0.73 (0.23)$ should be for class 2.

We thank Jeroen Vermunt for pointing out mistakes on page 74, Pengsheng Ni for making us aware of the two corrections on page 176 and Dirk Knol for pointing out mistakes on pages 70, 352, 354 and 409.
Minor corrections

• P. 23, last displayed equation
  Should be
  \[ \Pr(y_i | \mu_i) = \binom{n}{y_i} \mu_i^{y_i} (1 - \mu_i)^{(1-y_i)n}, \]

• P. 124, log link
  Replace “apart from the intercept” by “for all covariates that do not appear in the random part of the model”

• P. 124, line -5
  Replace “Section 4.28” by “equation (4.28)”

• P. 125, line -13
  Should be
  \[ (16/15)^2 \approx 0.35 \]

• P. 293, line 2
  Replace \( \hat{\beta}_i \) by \( -\hat{\beta}_i \)

• P. 308, last two displayed equations
  Should be
  \[ \Pr(y_{tj} = 1 | x_{tj}, y_{t-1,j} = 0, \zeta_j) = \frac{\exp(x_{tj}' \beta + \zeta_j)}{1 + \exp(x_{tj}' \beta + \zeta_j)}, \]
  and
  \[ \Pr(y_{tj} = 1 | x_{tj}, y_{t-1,j} = 1, \zeta_j) = \frac{\exp(x_{tj}' \beta + \gamma + \lambda \zeta_j)}{1 + \exp(x_{tj}' \beta + \gamma + \lambda \zeta_j)}. \]

• P. 329, line -19
  Replace “four thresholds” by “three thresholds”

• P. 329, line -18
  Replace “\( \kappa_1, \ldots, \kappa_4 \)” by “\( \kappa_{i1}, \kappa_{i2}, \kappa_{i3} \)”

• P. 353, displayed equation
  Should be
  \[ g(y_i; \mu_i) = \frac{y_i!}{y_i!(8-y_i)!} \mu_i^{y_i} (1 - \mu_i)^{8-y_i}. \]

• P. 358, line -18
  Should be: “probabilities 0.02, 0.15, 0.45, 0.22, 0.09 and 0.09, respectively...”

• P. 359, Caption of Figure 11.2
  Should be “...for components \( c=1, \ldots, 6 \) when...”

• P. 370, line -14

• P. 407, Table 13.6
  Deviance for model with 3 classes should be 23.68 instead of 23.58

• P. 433, line -6
  After “... count variable.”, insert “This variable is the product of self-reported drinking frequency (the number of days in the past two weeks with any drinking) and drinking intensity (the average number of drinks on a day with any drinking), rounded to the nearest integer.”
• P. 461, lines 4-5

• P. 476, line 16-18
Reference should be:

We are very grateful to Dirk Knol for pointing out many of these corrections.

Remarks

• P. 43, line -9 to -8
Note that omitting the offset \(\ln(d_{ir})\) leads to an equivalent model if a dummy variable is used for each risk set. We thank Harvey Goldstein for pointing this out.

• P. 113, line -17
Omitted reference on robustness:

• P. 199, line -5 Add reference:

• P. 216
From Stata 9 there is a command for linear mixed models called *xtmixed*. From Stata 10 there are commands *xtmelogit* and *xtmepoisson* implementing adaptive quadrature for random effects logistic and Poisson regression.

• Section 10.2
A useful reference for latent growth curve models with continuous responses is

• P. 432
Readers might find a path diagram for the CACE model useful:

![Path Diagram](https://example.com/path_diagram.png)
We would appreciate to be informed of further remarks and corrections; please email Sophia Rabe-Hesketh: sophiarh@berkeley.edu.