## THE INFORMATION BOUND OF A DYNAMIC PANEL LOGIT MODEL WITH FIXED EFFECTS — CORRIGENDUM

JIAYING GU University of Toronto

JINYONG HAHN University of California, Los Angeles

> KYOO IL KIM Michigan State University

In Hahn (2001), an entry in Table 1 contains an algebraic mistake, and as a consequence, Theorem 1 is incorrect. The problematic entry appears in the last row of Table 1, which reads

$$E[g(z)z^{5}] + 2 \cdot E[g(z)z^{4}] + E[g(z)z^{3}]$$
  
=  $E\left[\frac{z^{3}}{(1+bz)^{2}(1+z)}\right] - E\left[\frac{2bz^{4}}{(1+bz)^{3}(1+z)}\right].$ 

The first term on the right should be multiplied by 2, that is, it should be  $E\left[2z^3/\left((1+bz)^2(1+z)\right)\right]$ . Related to this, the term  $r^B$  defined in the technical appendix should be changed as the last element of  $r^B$  should be  $E\left[2z^3/\left((1+bz)^2(1+z)\right)\right] - E\left[2bz^4/\left((1+bz)^3(1+z)\right)\right]$ . This implies that the last equation on p. 918 should read  $(1, -1, -2, -b, -1, -1-b, -b^2)r^B = 0$ , and as a consequence, there is no contradiction, contrary to the statement at the bottom of p. 918. This further implies that the conclusion of Theorem 1 is incorrect; using the same method as in the proof for Theorem 2, it can be shown that there exists a  $K(\cdot)$  with E[K(u)] = 0 that satisfies the equality  $E\left[\ell^B | y_3, y_2 + y_1\right] = E[K(u) | y_3, y_2 + y_1]$  for all  $(y_3, y_2 + y_1)$ , as long as the density of the fixed effect u is bounded away from zero on an open interval. Therefore, the conditional maximum likelihood estimatior is semiparametrically efficient under such conditions on the distribution of u.

## REFERENCE

Hahn, J. (2001) The information bound of a dynamic panel logit model with fixed effects. *Econometric Theory* 17, 913–932.

Email: hahn@econ.ucla.edu

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