

runmlwin : run MLwiN from within Stata



runmlwin is a Stata command which allows Stata users to run the powerful MLwiN multilevel modelling software from within Stata.



The command is developed by George Leckie and Chris Charlton at the Centre for Multilevel Modelling, University of Bristol.

Key features

The runmlwin command allows Stata users to easily access the following MLwiN modelling features:

- (1) Estimation of multilevel models for continuous, binary, count, ordered categorical and unordered categorical data
- (2) Fast estimation via classical and Bayesian methods
- (3) Estimation of multilevel models for cross-classified and multiple membership non-hierarchical data structures
- (4) Estimation of multilevel multivariate response models, multilevel spatial models, multilevel measurement error models and multilevel multiple imputation models

```
Results
. runmlwin weight cons age age2 girl girlXage, ///
> level2(child: cons age, residuals(u)) ///
> level1(occasion: boy girl, diagonal) ///
> nopause

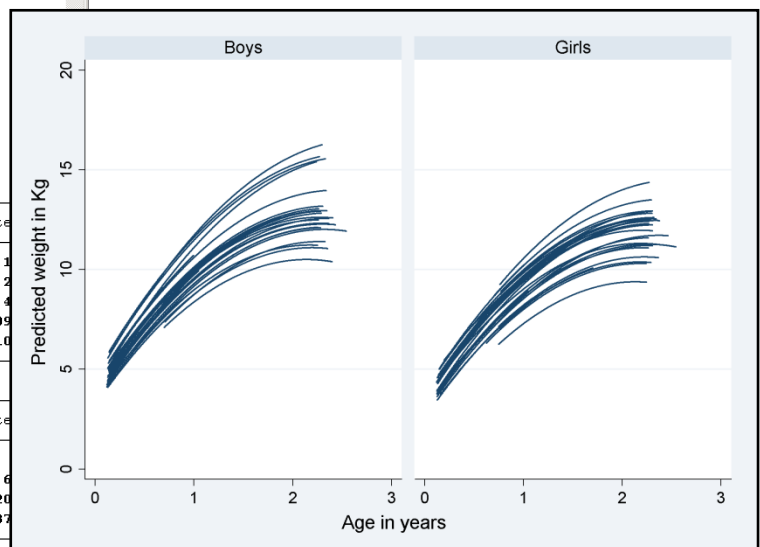
MLwiN 2.26 multilevel model           Number of obs   =   198
Normal response model
Estimation algorithm: IGLS

Level Variable      No. of      Observations per Group
                   Groups      Minimum   Average   Maximum
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child              68          1         2.9      5

Run time (seconds) =      5.20
Number of iterations =      8
Log likelihood      = -251.55885
Deviance            = 503.11771

weight      Coef.   Std. Err.   z   P>|z|   [95% Conf. Inte
-----
cons        3.768715  .178281    21.14  0.000   3.41929  4.1
age         7.755619  .2505671  30.95  0.000   7.264517  8.2
age2       -1.636874  .0859184  -19.05  0.000  -1.805271  -1.4
girl       -0.5090014  .2124869  -2.40  0.017  -.9254682  -.09
girlXage   -0.2208346  .1680837  -1.31  0.189  -.5502726  .10

Random-effects Parameters      Estimate   Std. Err.   [95% Conf. Inte
-----
Level 2: child
var(cons)      .3868839  .1341005   .1240517   .6
cov(cons,age) .0525628  .0759471  -.0962907  .20
var(age)       .2218493  .0771886   .0705624   .37
Level 1: occasion
var(girl)     .2456807  .0547544   .138364   .3529974
var(boy)     .4098192  .0839725   .2452362   .5744021
```



Support and documentation

Stata users can download runmlwin by typing `ssc install runmlwin` from within Stata. Comprehensive documentation, worked examples and an active discussion forum can be found at the runmlwin website.

Contact us

Please send any queries to George Leckie: g.leckie@bristol.ac.uk