Request #: 440 - HDFS - Publication/Article

sexting growth curves

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Background

Dual growth model of sexts (zero-inflated count variable) and self-reported risky sexual behavior (continuous index, positively skewed).

First trying to run the zero-inflated poisson growth model.

Sample

N = 216 Some missing data

Hypothesis

We expect that intercepts and slopes of sexting and risky sexual behavior will be positively associated. 4 waves of data not collected at same time.

TITLE: this is an example of a linear growth model for a count outcome using a zero- inflated Poisson model DATA: FILE IS dataMplus.csv; VARIABLE: NAMES ARE ID Gr9TotText Gr10TotText Gr11TotText Gr12TotText Gr9TotSex Gr10TotSex
Gr11TotSex Gr12TotSex TC9RSI
TC10RSI TC11RSI TC12RSI inc9 inc10 inc11 inc12 gender; USEVARIABLES ARE Gr9TotSex Gr10TotSex Gr11TotSex
Gr12TotSex; MISSING ARE ALL (-99); COUNT ARE Gr9TotSex-Gr12TotSex (i); ANALYSIS: INTEGRATION = 7; MODEL: i s | Gr9TotSex@0 Gr10TotSex Gr11TotSex Gr12TotSex@1; ii si | Gr9TotSex{#}1@0 Gr10TotSex{#}1 Gr11TotSex{#}1 Gr12TotSex{#}1@1; OUTPUT: TECH1 TECH8;

Progress

Running analysis which takes days and running into errors:
WARNING: COUNT VARIABLE HAS LARGE VALUES. IT MAY BE MORE APPROPRIATE TO TREAT SUCH VARIABLES AS CONTINUOUS.

```
THE MODEL ESTIMATION DID NOT TERMINATE NORMALLY DUE TO A NON-ZERO
DERIVATIVE OF THE OBSERVED-DATA LOGLIKELIHOOD.

THE MCONVERGENCE CRITERION OF THE EM ALGORITHM IS NOT FULFILLED.
CHECK YOUR STARTING VALUES OR INCREASE THE NUMBER OF MITERATIONS.
ESTIMATES CANNOT BE TRUSTED.  THE LOGLIKELIHOOD DERIVATIVE
FOR THE FOLLOWING PARAMETER IS  0.10051341D+07:
Parameter 2, SI1 BY GR10TOTSEX{\#}1
```

Request

Help getting the computationally intensive analysis to work.

Timeline

None.