Supplemental Materials

Part I: Details about creating the indicators for harshness and unpredictability in ECLS-B

Because the ECLS-B has an unbalanced design, with children varying somewhat in age (in months) at each measurement occasion (due to varying birth dates, data-collection scheduling and time taken to collect all the data), there was a need to accommodate this time-of-assessment variation when creating these two parameters. This was achieved by creating within-person centered time (i.e., person-specific mean age across the four measurement occasions as the zero point, and each month serving as one unit of time) and, when it came to calculating growth curves, individual- and wave-specific centered ages (in months).

Table S.1.

*Descriptive Information about ECLS-B Income Ratings from Nine Months to Kindergarten (N= 10,700).*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Household  Income Rating | ECLS-B income category | 9 month frequency | 2 years frequency | Preschool frequency | Kindergarten 2006 frequency | Kindergarten 2007 frequency |
| 1 | <= $5,000 | 600 | 450 | 400 | 250 | 50 |
| 2 | $5,001-$10,000 | 700 | 550 | 400 | 300 | 100 |
| 3 | $10,001-$15,000 | 800 | 750 | 550 | 400 | 100 |
| 4 | $15,001-$20,000 | 800 | 700 | 600 | 400 | 100 |
| 5 | $20,001-$25,000 | 1,000 | 700 | 750 | 450 | 150 |
| 6 | $25,001-$30,000 | 850 | 700 | 550 | 450 | 100 |
| 7 | $30,001-$35,000 | 650 | 600 | 500 | 400 | 100 |
| 8 | $35,001-$40,000 | 650 | 650 | 550 | 400 | 100 |
| 9 | $40,001-$50,000 | 950 | 850 | 800 | 600 | 150 |
| 10 | $50,001-$75,000 | 1,500 | 1,600 | 1,400 | 1,100 | 300 |
| 11 | $75,001-$100,000 | 1,000 | 1,100 | 1,100 | 900 | 250 |
| 12 | $100,001-$200,000 | 1,000 | 950 | 1,100 | 1,050 | 300 |
| 13 | >= $200,001 | 150 | 200 | 300 | 250 | 100 |
| Total |  | 10,700 | 9,850 | 8,950 | 7,000 | 1,900 |

Note. Sample sizes in each cell are rounded to the nearest 50 in accordance with ECLS-B data-security regulations.

Table S.2.

*Parameter Estimates for Multilevel Models for Stability of Household Income Adjusted by Poverty Thresholds from Nine Month to Kindergarten 2006 Measurements.*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Unconditional Model | Fixed Effect Model | Random Slope Model |
| **Model for intercept** |  |  |  |
| (*SE*) | 2.99(0.03) | 3.00(0.03) | 3.00(0.03) |
| Variance() | 6.42 | 6.49 | 6.62 |
| **Model for Slopes** |  |  |  |
| (*SE*) | - | 0.01(0.0004) | 0.01(0.0004) |
| Variance() | - | - | 0.0007 |
| ResidualVariance() | 1.93 | 1.85 | 1.44 |
| **Model Fit** |  |  |  |
| -2 log likelihood | 153838.0 | 151030.0 | 149668.3 |
| AIC | 153844.0 | 151038.0 | 149680.3 |
| BIC | 153865.8 | 151067.1 | 149723.9 |

Table S.3.

*Descriptive Analyses for the Centered Environmental Harshness, Unpredictability and Harshness-X-Unpredictability Interactions for the Complete Data (N= 10,700).*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1.Harshness** | **2.Unpredictability** | **3.Interaction** |
| *Mean* | 0 | 0 | -0.14 |
| *SD* | 0.70 | 0.44 | 0.42 |
| *Min* | -2.63 | -1.96 | -5.58 |
| *Max* | 2.74 | 2.36 | 1.97 |
| **1.** | 1 | - | - |
| **2.** | -0.46\*\* | 1 | - |
| **3.** | 0.21\*\* | -0.51\*\* | 1 |

\*: p<.05, \*\*: p <.01.