MGCFA Class Assignment

Using the RS14 dataset, program the different models of a multigroup analysis using ethnicity as the grouping variable.

Use race\_test as the variable:

* 1 = Black
* 2 = White

Be sure to first change the variable to a factor with labels.

Add partial invariance to your table if necessary.

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| --- | --- | --- | --- | --- | --- | --- |
| Model | X2 (df) | RMSEA | SRMR | CFI | Change CFI | Different? |
| All Groups | (77) = 339.948 | .086 | .041 | .925 | n/a | n/a |
| White | (77) = 342.834 | .098 | .047 | .902 | n/a | n/a |
| Black | (77) = 125.924 | .077 | .047 | .944 | n/a | n/a |
| Configural  Invariance  Picture | (154) = 468.758 | .094 | .047 | .912 | n/a | n/a |
| Metric Invariance  Loadings | (167) = 483.102 | .090 | .056 | .912 | .000 | no |
| Scalar Invariance  Intercepts | (180) = 533.891 | .092 | .060 | .901 | .011 | Yes |
| Partial Scalar Invariance  RS4 | (179) = 513.149 | .090 | .058 | .907 | .005 | no |
| Strict Invariance  Error variances | (193) = 575.899 | .092 | .060 | .893 | .014 | Yes |
| Partial Strict Invariance  RS3 | (192) = 560.317 | .091 | .060 | .897 | .010 | no |

What is the CFI you are trying to get to (i.e. CFI - .01)?

Partial scalar step = .912 - .01 = .902

Partial residual step = .907 - .01 = .897

What questions would you freely estimate to get to partial invariance?

RS4 intercept

RS3 residual

Interpret your findings – are the groups invariant? Did you see a break down between groups anywhere? What does that break down imply?