Results

The 'cran\_repo' argument in shelf() was not set, so it will use  
 cran\_repo = 'https://cran.r-project.org' by default.  
  
 To avoid this message, set the 'cran\_repo' argument to a CRAN  
 mirror URL (see https://cran.r-project.org/mirrors.html) or set  
 'quiet = TRUE'.

## CFA

### Factor Loadings

flextable(tbl.cfa.loadings)

| Variable | risk | sanctions | peers |
| --- | --- | --- | --- |
| overrated | 0.595 | 0.000 | 0.000 |
| police | 0.398 | 0.000 | 0.000 |
| caught | 0.763 | 0.000 | 0.000 |
| high | 0.871 | 0.000 | 0.000 |
| strict | 0.000 | 0.916 | 0.000 |
| jail | 0.000 | 0.897 | 0.000 |
| lose | 0.000 | 0.744 | 0.000 |
| friends | 0.000 | 0.000 | 0.762 |
| dumb | 0.000 | 0.000 | 0.561 |

summary(cfa.att, standardized = TRUE, fit.measures = TRUE)

lavaan 0.6.15 ended normally after 40 iterations  
  
 Estimator ML  
 Optimization method NLMINB  
 Number of model parameters 21  
  
 Number of observations 125  
  
Model Test User Model:  
   
 Test statistic 178.498  
 Degrees of freedom 24  
 P-value (Chi-square) 0.000  
  
Model Test Baseline Model:  
  
 Test statistic 739.922  
 Degrees of freedom 36  
 P-value 0.000  
  
User Model versus Baseline Model:  
  
 Comparative Fit Index (CFI) 0.781  
 Tucker-Lewis Index (TLI) 0.671  
  
Loglikelihood and Information Criteria:  
  
 Loglikelihood user model (H0) -1685.927  
 Loglikelihood unrestricted model (H1) -1596.678  
   
 Akaike (AIC) 3413.854  
 Bayesian (BIC) 3473.249  
 Sample-size adjusted Bayesian (SABIC) 3406.843  
  
Root Mean Square Error of Approximation:  
  
 RMSEA 0.227  
 90 Percent confidence interval - lower 0.196  
 90 Percent confidence interval - upper 0.259  
 P-value H\_0: RMSEA <= 0.050 0.000  
 P-value H\_0: RMSEA >= 0.080 1.000  
  
Standardized Root Mean Square Residual:  
  
 SRMR 0.148  
  
Parameter Estimates:  
  
 Standard errors Standard  
 Information Expected  
 Information saturated (h1) model Structured  
  
Latent Variables:  
 Estimate Std.Err z-value P(>|z|) Std.lv Std.all  
 risk =~   
 overrated 1.000 0.790 0.595  
 police 0.744 0.189 3.940 0.000 0.588 0.398  
 caught 1.248 0.191 6.545 0.000 0.986 0.763  
 high 1.723 0.244 7.050 0.000 1.362 0.871  
 sanctions =~   
 strict 1.000 1.210 0.916  
 jail 1.043 0.076 13.637 0.000 1.261 0.897  
 lose 0.804 0.078 10.244 0.000 0.972 0.744  
 peers =~   
 friends 1.000 1.145 0.762  
 dumb 0.657 0.099 6.621 0.000 0.753 0.561  
  
Covariances:  
 Estimate Std.Err z-value P(>|z|) Std.lv Std.all  
 risk ~~   
 sanctions 0.578 0.133 4.352 0.000 0.605 0.605  
 peers 0.970 0.187 5.179 0.000 1.072 1.072  
 sanctions ~~   
 peers 1.025 0.192 5.328 0.000 0.740 0.740  
  
Variances:  
 Estimate Std.Err z-value P(>|z|) Std.lv Std.all  
 .overrated 1.139 0.154 7.380 0.000 1.139 0.646  
 .police 1.838 0.238 7.727 0.000 1.838 0.842  
 .caught 0.697 0.107 6.523 0.000 0.697 0.418  
 .high 0.587 0.128 4.594 0.000 0.587 0.241  
 .strict 0.281 0.078 3.610 0.000 0.281 0.161  
 .jail 0.387 0.090 4.294 0.000 0.387 0.196  
 .lose 0.761 0.109 6.981 0.000 0.761 0.446  
 .friends 0.945 0.188 5.033 0.000 0.945 0.419  
 .dumb 1.230 0.168 7.336 0.000 1.230 0.685  
 risk 0.625 0.179 3.488 0.000 1.000 1.000  
 sanctions 1.463 0.229 6.403 0.000 1.000 1.000  
 peers 1.311 0.297 4.417 0.000 1.000 1.000

## Multigroup Analyses

Structural Equation Model of model.psem   
  
Groups = ma.ingest [ FALSE, TRUE ]  
  
---  
  
Global goodness-of-fit:  
  
 Fisher's C = NA with P-value = NA and on 0 degrees of freedom  
  
---  
  
Model-wide Interactions:  
  
 Response Predictor Test.Stat DF P.Value   
 dd.total duid.att.risk:ma.ingest 904.9 1 0.0088 \*\*  
 dd.total ma.ingest:duid.att.sanction 904.9 1 0.0002 \*\*\*  
 dd.total ma.ingest:duid.att.peer 904.9 1 0.0120 \*  
  
 No paths constrained to the global model (P > 0.05)  
  
---  
  
Group [FALSE] coefficients:   
  
 Response Predictor Estimate Std.Error DF Crit.Value P.Value  
 dd.total duid.att.risk 0.4905 1.9383 68 0.2531 0.8010  
 dd.total duid.att.sanction 2.6226 1.6319 68 1.6071 0.1127  
 dd.total duid.att.peer 7.5076 1.6989 68 4.4191 0.0000  
 Std.Estimate   
 0.0268   
 0.2093   
 0.5410 \*\*\*   
   
Group [TRUE] coefficients:   
  
 Response Predictor Estimate Std.Error DF Crit.Value P.Value  
 dd.total duid.att.risk 9.6444 3.0206 49 3.1929 0.0025  
 dd.total duid.att.sanction -8.2329 2.4124 49 -3.4128 0.0013  
 dd.total duid.att.peer 0.2056 2.4182 49 0.0850 0.9326  
 Std.Estimate   
 0.6031 \*\*   
 -0.6152 \*\*   
 0.0126   
   
Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 c = constrained