primary\_hypotheses

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library(tidyverse)

## Warning: package 'tidyverse' was built under R version 4.0.5

## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --

## v ggplot2 3.3.5 v purrr 0.3.4  
## v tibble 3.1.5 v dplyr 1.0.7  
## v tidyr 1.1.4 v stringr 1.4.0  
## v readr 1.4.0 v forcats 0.5.1

## Warning: package 'ggplot2' was built under R version 4.0.5

## Warning: package 'tibble' was built under R version 4.0.5

## Warning: package 'tidyr' was built under R version 4.0.5

## Warning: package 'dplyr' was built under R version 4.0.5

## Warning: package 'forcats' was built under R version 4.0.5

## -- Conflicts ------------------------------------------ tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

library(here)

## Warning: package 'here' was built under R version 4.0.5

## here() starts at C:/repositories/attention\_pilot

library(broom)  
library(performance)

## Warning: package 'performance' was built under R version 4.0.5

library(lme4)

## Loading required package: Matrix

##   
## Attaching package: 'Matrix'

## The following objects are masked from 'package:tidyr':  
##   
## expand, pack, unpack

library(lmerTest)

##   
## Attaching package: 'lmerTest'

## The following object is masked from 'package:lme4':  
##   
## lmer

## The following object is masked from 'package:stats':  
##   
## step

library(GPArotation)  
library(psych)

##   
## Attaching package: 'psych'

## The following objects are masked from 'package:ggplot2':  
##   
## %+%, alpha

library(nFactors)

## Warning: package 'nFactors' was built under R version 4.0.5

## Loading required package: lattice

##   
## Attaching package: 'nFactors'

## The following object is masked from 'package:lattice':  
##   
## parallel

library(flextable)

## Warning: package 'flextable' was built under R version 4.0.5

##   
## Attaching package: 'flextable'

## The following object is masked from 'package:purrr':  
##   
## compose

library(magrittr)

## Warning: package 'magrittr' was built under R version 4.0.5

##   
## Attaching package: 'magrittr'

## The following object is masked from 'package:purrr':  
##   
## set\_names

## The following object is masked from 'package:tidyr':  
##   
## extract

library(ggeffects)

## Warning: package 'ggeffects' was built under R version 4.0.5

change\_data\_clean <- read\_csv(here("data", "1\_pilot", "change\_data\_clean.csv"))

##   
## -- Column specification --------------------------------------------------------  
## cols(  
## id = col\_double(),  
## rt = col\_double(),  
## key\_press = col\_character(),  
## response = col\_character(),  
## variable = col\_character(),  
## task = col\_character(),  
## condition = col\_character(),  
## correct\_response = col\_character(),  
## trial\_index = col\_double(),  
## time\_elapsed = col\_double(),  
## counterbalance = col\_double(),  
## correct = col\_double(),  
## ex\_narb\_change\_rowcount = col\_double(),  
## ex\_narb\_change\_NA\_trials = col\_double(),  
## ex\_narb\_change\_log\_outliers = col\_double(),  
## ex\_narb\_change\_invalid\_trials = col\_double(),  
## ex\_narb\_change\_chance\_performance = col\_logical()  
## )

cueing\_data\_clean <- read\_csv(here("data", "1\_pilot", "cueing\_data\_clean.csv"))

##   
## -- Column specification --------------------------------------------------------  
## cols(  
## id = col\_double(),  
## rt = col\_double(),  
## key\_press = col\_character(),  
## response = col\_character(),  
## avg\_frame\_time = col\_double(),  
## variable = col\_character(),  
## task = col\_character(),  
## condition = col\_character(),  
## correct\_response = col\_character(),  
## trial\_index = col\_double(),  
## time\_elapsed = col\_double(),  
## counterbalance = col\_double(),  
## correct = col\_double(),  
## ex\_narb\_cueing\_rowcount = col\_double(),  
## ex\_narb\_cueing\_NA\_trials = col\_double(),  
## ex\_narb\_cueing\_log\_outliers = col\_double(),  
## ex\_narb\_cueing\_invalid\_trials = col\_double(),  
## ex\_narb\_cueing\_chance\_performance = col\_logical()  
## )

flanker\_data\_clean <- read\_csv(here("data", "1\_pilot", "flanker\_data\_clean.csv"))

##   
## -- Column specification --------------------------------------------------------  
## cols(  
## id = col\_double(),  
## rt = col\_double(),  
## response = col\_character(),  
## variable = col\_character(),  
## task = col\_character(),  
## location = col\_character(),  
## correct\_response = col\_character(),  
## trial\_type = col\_character(),  
## trial\_index = col\_double(),  
## time\_elapsed = col\_double(),  
## counterbalance = col\_double(),  
## correct = col\_double(),  
## congruency = col\_character(),  
## ex\_narb\_flanker\_rowcount = col\_double(),  
## ex\_narb\_flanker\_NA\_trials = col\_double(),  
## ex\_narb\_flanker\_log\_outliers = col\_double(),  
## ex\_narb\_flanker\_invalid\_trials = col\_double(),  
## ex\_narb\_flanker\_chance\_performance = col\_logical()  
## )

self\_report\_clean <- read\_csv(here("data", "1\_pilot", "self\_report\_clean.csv"))

##   
## -- Column specification --------------------------------------------------------  
## cols(  
## .default = col\_double(),  
## meta\_start = col\_datetime(format = ""),  
## meta\_end = col\_datetime(format = ""),  
## meta\_recorded = col\_datetime(format = ""),  
## meta\_browser = col\_character(),  
## meta\_version = col\_character(),  
## `meta\_operating system` = col\_character(),  
## meta\_resolution = col\_character(),  
## meta\_feedback = col\_character(),  
## dems\_ethnicity = col\_character(),  
## dems\_gender\_4\_text = col\_character(),  
## dems\_occupation = col\_character(),  
## responseid = col\_character(),  
## prolific\_pid = col\_logical(),  
## study\_id = col\_logical(),  
## session\_id = col\_logical(),  
## ex\_narb\_attention\_checks\_pass = col\_logical(),  
## ex\_narb\_NA\_selfreport\_pass = col\_logical(),  
## ex\_narb\_suspect\_responses\_pass = col\_logical(),  
## ex\_arb\_suspect\_responses = col\_logical()  
## )  
## i Use `spec()` for the full column specifications.

codebook <- read\_csv(here("data", "1\_pilot", "pilot\_self\_report\_codebook.csv"))

##   
## -- Column specification --------------------------------------------------------  
## cols(  
## Variable = col\_character(),  
## Label = col\_character(),  
## Values = col\_logical()  
## )

# Create datasets with mean RTs and accuracy   
change\_data\_clean\_mean <- change\_data\_clean %>%  
 group\_by(id) %>%  
 summarise(rt\_change = mean(rt, na.rm = T), acc\_change = (sum(correct) / n()) \* 100) %>%  
 ungroup() %>%  
 left\_join(self\_report\_clean %>% select(id, matches("(total|composite|mean)$")))

## Joining, by = "id"

cueing\_data\_clean\_mean <- cueing\_data\_clean %>%  
 group\_by(id, condition) %>%  
 summarise(rt\_cueing = mean(rt, na.rm = T), acc\_cueing = (sum(correct) / n()) \* 100) %>%  
 ungroup() %>%  
 mutate(  
 condition = ifelse(condition == "neutral", -1, 1),  
 rt\_cueing = scale(rt\_cueing)  
 ) %>%  
 left\_join(self\_report\_clean %>% select(id, matches("(total|composite|mean)$")))

## `summarise()` has grouped output by 'id'. You can override using the `.groups` argument.

## Joining, by = "id"

flanker\_data\_clean\_mean <- flanker\_data\_clean %>%  
 group\_by(id, congruency) %>%  
 summarise(rt\_flanker = mean(rt, na.rm = T), acc\_flanker = (sum(correct) / n()) \* 100) %>%  
 ungroup() %>%  
 mutate(  
 congruency = ifelse(congruency == "congruent", -1, 1),  
 rt\_flanker = scale(rt\_flanker)  
 ) %>%  
 left\_join(self\_report\_clean %>% select(id, matches("(total|composite|mean)$")))

## `summarise()` has grouped output by 'id'. You can override using the `.groups` argument.  
## Joining, by = "id"

# 1. Primary hypotheses - Effect of violence exposure on task performance

## Reaction Times

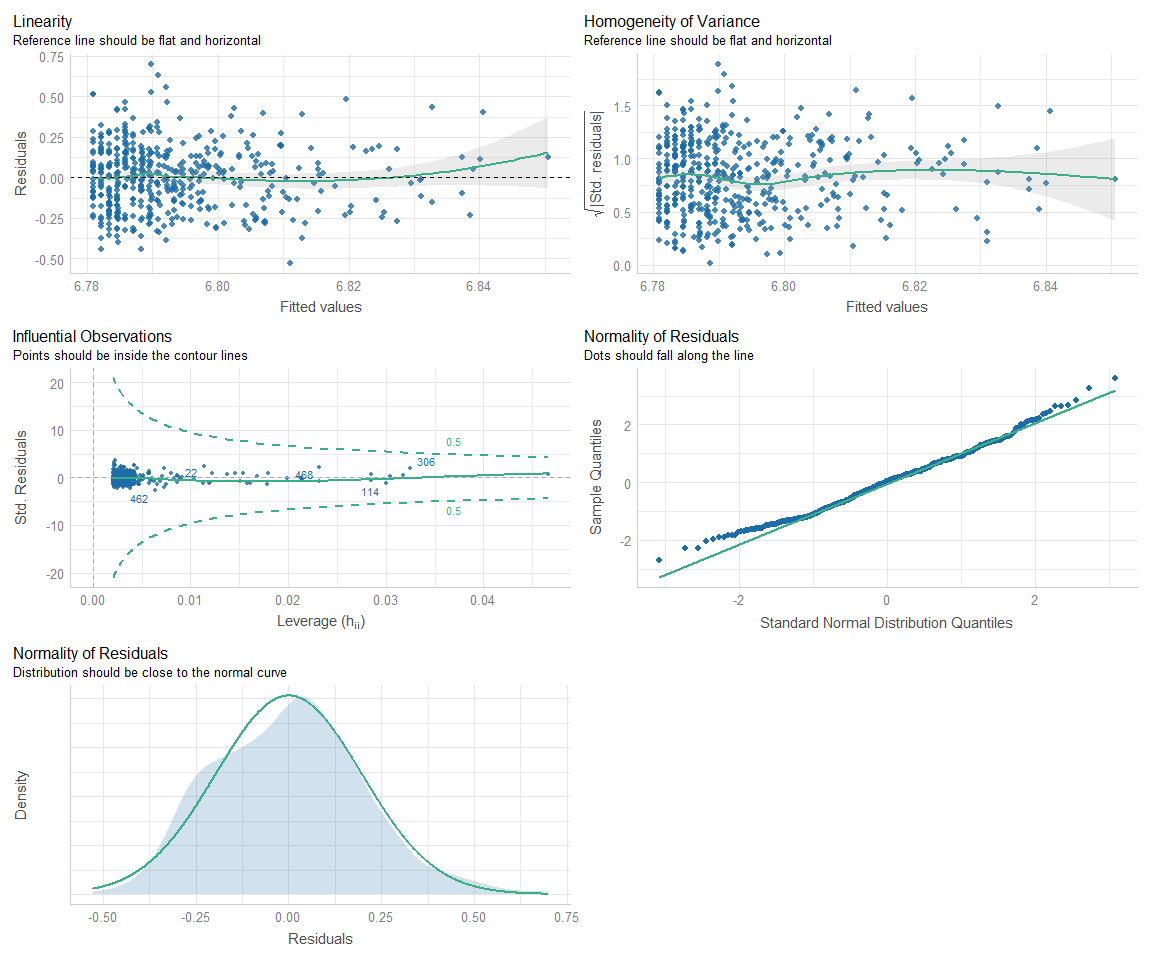
### Change Detection Task

The mean accuracy across participants on the Change Detection Task was *M* = 76.51 (*SD* = 8.31). Therefore, we also conducted an analysis on the mean accuracy.

model\_change\_rt\_vio <- lm(data = change\_data\_clean\_mean, log(rt\_change) ~ violence\_composite)   
summary(model\_change\_rt\_vio)

##   
## Call:  
## lm(formula = log(rt\_change) ~ violence\_composite, data = change\_data\_clean\_mean)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -0.52724 -0.14697 0.00522 0.13311 0.70028   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 6.793768 0.009039 751.590 <2e-16 \*\*\*  
## violence\_composite 0.014238 0.010363 1.374 0.17   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.1969 on 473 degrees of freedom  
## Multiple R-squared: 0.003975, Adjusted R-squared: 0.00187   
## F-statistic: 1.888 on 1 and 473 DF, p-value: 0.1701

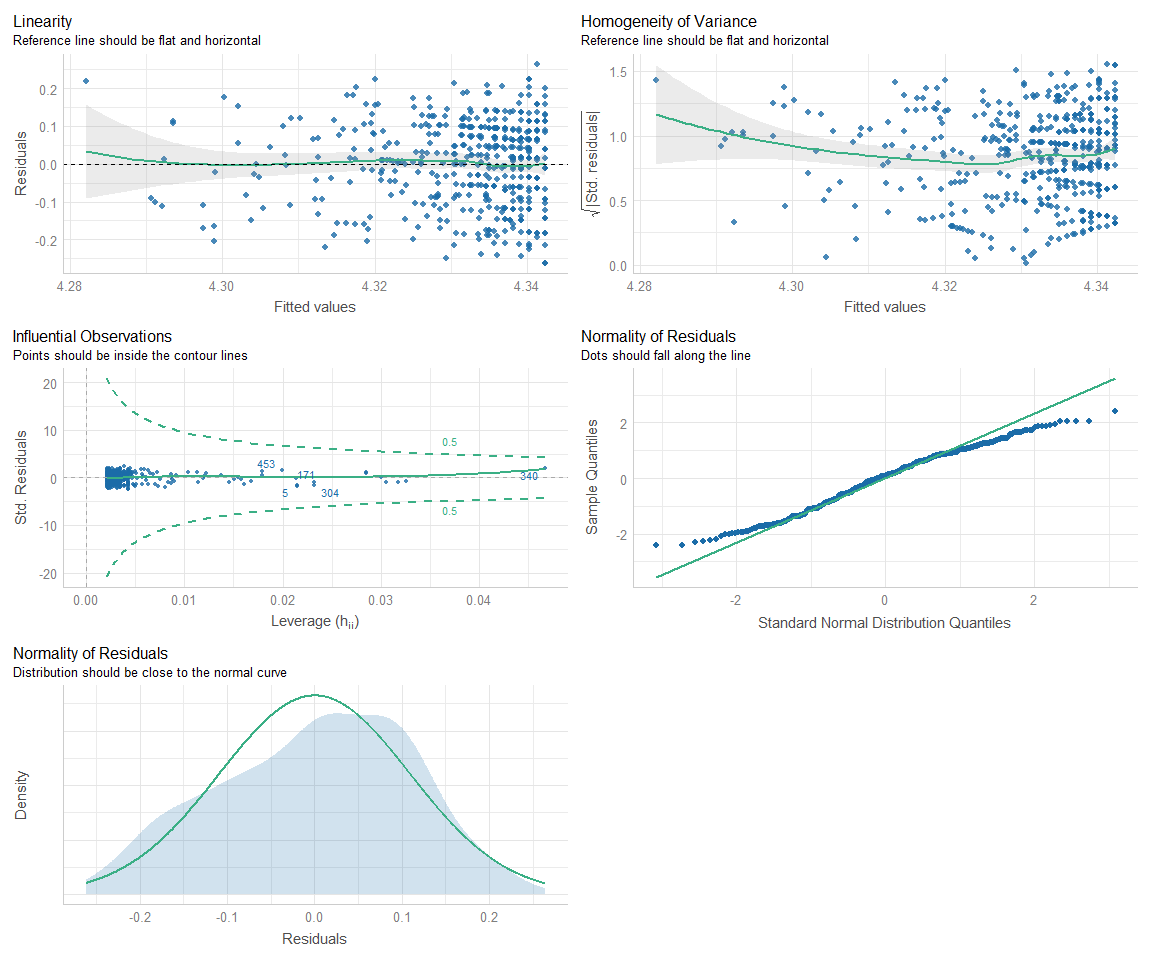
check\_model(model\_change\_rt\_vio)



model\_change\_acc\_vio <- lm(data = change\_data\_clean\_mean, log(acc\_change) ~ violence\_composite)   
summary(model\_change\_acc\_vio)

##   
## Call:  
## lm(formula = log(acc\_change) ~ violence\_composite, data = change\_data\_clean\_mean)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -0.261691 -0.083129 0.009945 0.088195 0.263886   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 4.331217 0.005025 861.866 <2e-16 \*\*\*  
## violence\_composite -0.012313 0.005761 -2.137 0.0331 \*   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.1095 on 473 degrees of freedom  
## Multiple R-squared: 0.009564, Adjusted R-squared: 0.00747   
## F-statistic: 4.568 on 1 and 473 DF, p-value: 0.03309

check\_model(model\_change\_acc\_vio)



### Attention Cueing Task

cueing\_data\_clean\_mean %<>%  
 filter(!id %in% c("269", "32", "37"))  
  
model\_cueing\_rt\_vio <- lmer(data = cueing\_data\_clean\_mean, rt\_cueing ~ violence\_composite\*condition + (1|id))   
summary(model\_cueing\_rt\_vio)

## Linear mixed model fit by REML. t-tests use Satterthwaite's method [  
## lmerModLmerTest]  
## Formula: rt\_cueing ~ violence\_composite \* condition + (1 | id)  
## Data: cueing\_data\_clean\_mean  
##   
## REML criterion at convergence: 1736.4  
##   
## Scaled residuals:   
## Min 1Q Median 3Q Max   
## -4.1240 -0.3984 -0.0318 0.3413 5.6381   
##   
## Random effects:  
## Groups Name Variance Std.Dev.  
## id (Intercept) 0.81617 0.9034   
## Residual 0.06608 0.2571   
## Number of obs: 984, groups: id, 492  
##   
## Fixed effects:  
## Estimate Std. Error df t value Pr(>|t|)  
## (Intercept) 0.002028 0.041555 489.999999 0.049 0.9611  
## violence\_composite 0.120528 0.048162 489.999994 2.503 0.0127  
## condition -0.336526 0.008197 490.000002 -41.056 <2e-16  
## violence\_composite:condition -0.003400 0.009500 490.000002 -0.358 0.7206  
##   
## (Intercept)   
## violence\_composite \*   
## condition \*\*\*  
## violence\_composite:condition   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Correlation of Fixed Effects:  
## (Intr) vlnc\_c condtn  
## vilnc\_cmpst 0.021   
## condition 0.000 0.000   
## vlnc\_cmpst: 0.000 0.000 0.021

check\_model(model\_cueing\_rt\_vio)



### Flanker Task

model\_flanker\_rt\_vio <- lmer(data = flanker\_data\_clean\_mean, rt\_flanker ~ violence\_composite\*congruency + (1|id))   
summary(model\_flanker\_rt\_vio)

## Linear mixed model fit by REML. t-tests use Satterthwaite's method [  
## lmerModLmerTest]  
## Formula: rt\_flanker ~ violence\_composite \* congruency + (1 | id)  
## Data: flanker\_data\_clean\_mean  
##   
## REML criterion at convergence: 2011.7  
##   
## Scaled residuals:   
## Min 1Q Median 3Q Max   
## -5.5061 -0.3398 -0.0341 0.2614 7.6539   
##   
## Random effects:  
## Groups Name Variance Std.Dev.  
## id (Intercept) 0.8066 0.8981   
## Residual 0.1122 0.3350   
## Number of obs: 988, groups: id, 494  
##   
## Fixed effects:  
## Estimate Std. Error df t value Pr(>|t|)  
## (Intercept) 0.001325 0.041796 491.999996 0.032 0.9747  
## violence\_composite 0.091447 0.048065 491.999991 1.903 0.0577  
## congruency 0.277929 0.010659 492.000004 26.074 <2e-16  
## violence\_composite:congruency -0.015607 0.012258 492.000004 -1.273 0.2035  
##   
## (Intercept)   
## violence\_composite .   
## congruency \*\*\*  
## violence\_composite:congruency   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Correlation of Fixed Effects:  
## (Intr) vlnc\_c cngrnc  
## vilnc\_cmpst 0.017   
## congruency 0.000 0.000   
## vlnc\_cmpst: 0.000 0.000 0.017

ggpredict(model\_flanker\_rt\_vio, terms = c("composite\_composite [-1,1]", "congruency [-1,1]"))

## `composite\_composite` was not found in model terms. Maybe misspelled?

## # Predicted values of rt\_flanker  
##   
## # congruency = -1  
##   
## composite\_composite | Predicted | 95% CI  
## ------------------------------------------------  
## -1 | -0.28 | [-0.36, -0.19]  
## 1 | -0.28 |   
##   
## # congruency = 1  
##   
## composite\_composite | Predicted | 95% CI  
## ----------------------------------------------  
## -1 | 0.28 | [0.19, 0.36]  
## 1 | 0.28 |   
##   
## Adjusted for:  
## \* violence\_composite = -0.01  
## \* id = 0 (population-level)

check\_model(model\_flanker\_rt\_vio)



# 2. Primary hypotheses - Factor structure of unpredictability measures

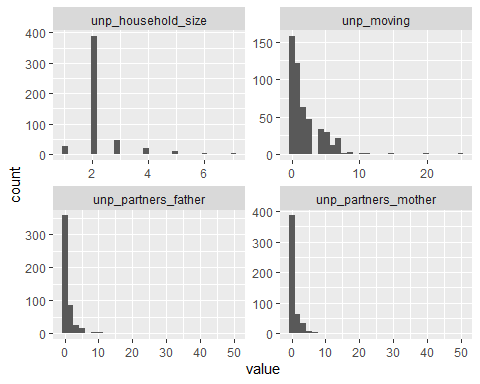
We conducted an EFA including all items measuring unpredictability: 1) The QUIC items, 2) the perceived unpredictability items, 3) the CHAOS items, 4) the items measuring environmental change, 5) number of partners of the father and mother, 6) Number of residential changes, 7) household size.

The measures of residential changes and number of different partners of both parents were heavily positively skewed.

self\_report\_clean %>%  
 select(id, unp\_partners\_father, unp\_partners\_mother, unp\_household\_size, unp\_moving) %>%  
 pivot\_longer(starts\_with("unp\_"), names\_to = "var", values\_to = "value") %>%  
 ggplot() +  
 geom\_histogram(aes(value)) +  
 facet\_wrap(~var, scales = "free")

## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.

## Warning: Removed 5 rows containing non-finite values (stat\_bin).



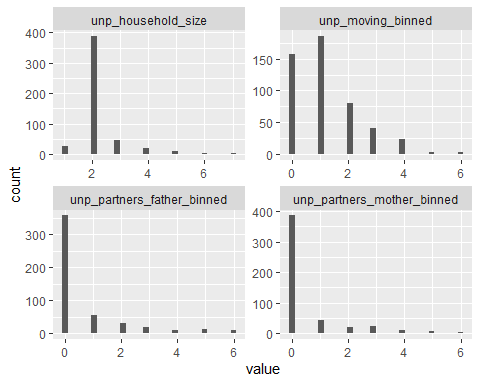
Two participants indicated 50 different partners for either their mother or father. This number corresponded with other items focusing on the family situation, such as on the QUIC (“At least one of my parents had many romantic partners”) and changes in the family environment. Therefore, we saw no reason to exclude these responses. We binned the responses for these three variables to get rid of the skew. For number of residential changes, responses were recoded into 7 bins: 0 (0 times), 1 (1-2 times), 2 (3-4 times), 3 (5-6 times), 4 (7-8 times), 5 (9-10 times), and 6 (10 or more times). For the number of partners of both parents, responses were recoded into .. bins: 0 (0 partners), 1 (1 partner), 2 (2 partners), 3 (3 partners), 4 (4 partners), 5 (5 partners), and 6 (6 or more partners).

self\_report\_clean %<>%  
 mutate(  
 unp\_moving\_binned = case\_when(  
 unp\_moving == 0 ~ 0,  
 unp\_moving %in% c(1,2) ~ 1,  
 unp\_moving %in% c(3,4) ~ 2,  
 unp\_moving %in% c(5,6) ~ 3,  
 unp\_moving %in% c(7,8) ~ 4,  
 unp\_moving %in% c(9,10) ~ 5,  
 unp\_moving > 10 ~ 6,  
 ),  
 unp\_partners\_mother\_binned = case\_when(  
 unp\_partners\_mother == 0 ~ 0,  
 unp\_partners\_mother == 1 ~ 1,  
 unp\_partners\_mother == 2 ~ 2,  
 unp\_partners\_mother == 3 ~ 3,  
 unp\_partners\_mother == 4 ~ 4,  
 unp\_partners\_mother == 5 ~ 5,  
 unp\_partners\_mother >= 6 ~ 6,  
 ),  
 unp\_partners\_father\_binned = case\_when(  
 unp\_partners\_father == 0 ~ 0,  
 unp\_partners\_father == 1 ~ 1,  
 unp\_partners\_father == 2 ~ 2,  
 unp\_partners\_father == 3 ~ 3,  
 unp\_partners\_father == 4 ~ 4,  
 unp\_partners\_father == 5 ~ 5,  
 unp\_partners\_father >= 6 ~ 6,  
 )  
 )

self\_report\_clean %>%  
 select(id, unp\_partners\_father\_binned, unp\_partners\_mother\_binned, unp\_household\_size, unp\_moving\_binned) %>%  
 pivot\_longer(starts\_with("unp\_"), names\_to = "var", values\_to = "value") %>%  
 ggplot() +  
 geom\_histogram(aes(value)) +  
 facet\_wrap(~var, scales = "free")

## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.

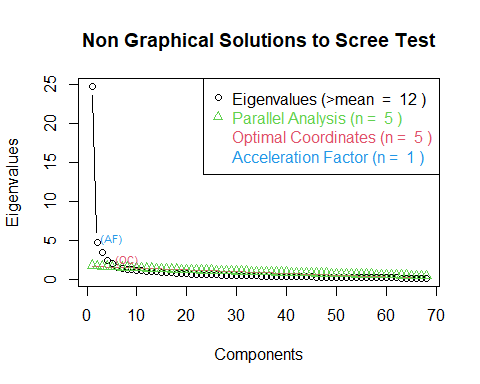
## Warning: Removed 5 rows containing non-finite values (stat\_bin).



efa\_data <- self\_report\_clean %>%  
 select(matches("(quic\\d\\d)|(unp\\d\\d)|(chaos\\d\\d)|(change\_env\\d\\d)"),   
 unp\_partners\_father\_binned, unp\_partners\_mother\_binned, unp\_household\_size, unp\_moving\_binned) %>%  
 drop\_na() %>%  
 mutate(across(matches("quic(01|02|03|04|05|06|07|08|09|11|14|16|22|32)"), ~ 6 - .)) %>%  
 mutate(across(matches("chaos(01|02|04|07|12|14|15)"), ~ 6 - .))

First, we determine the number of factors through parallel analysis, with the added constraint that each factor should have at least 5 items that have their highest loading on that factor. Parallel analysis suggests extracting 5 factors.

ev <- eigen(cor(efa\_data)) # get eigenvalues  
ap <- parallel(subject=nrow(efa\_data),var=ncol(efa\_data),  
 rep=100,cent=.05)  
nS <- nScree(x=ev$values, aparallel=ap$eigen$qevpea)  
plotnScree(nS)



efa\_model <- factanal(efa\_data, factors = 5, rotation = "oblimin")  
  
efa\_model

##   
## Call:  
## factanal(x = efa\_data, factors = 5, rotation = "oblimin")  
##   
## Uniquenesses:  
## chaos01 chaos02   
## 0.519 0.415   
## chaos03 chaos04   
## 0.580 0.391   
## chaos05 chaos06   
## 0.552 0.421   
## chaos07 chaos08   
## 0.585 0.321   
## chaos09 chaos10   
## 0.414 0.505   
## chaos11 chaos12   
## 0.433 0.296   
## chaos13 chaos14   
## 0.934 0.355   
## chaos15 unp01   
## 0.563 0.398   
## unp02 unp03   
## 0.350 0.455   
## unp04 unp05   
## 0.606 0.359   
## unp06 unp07   
## 0.189 0.258   
## unp08 quic01   
## 0.309 0.635   
## quic02 quic03   
## 0.509 0.555   
## quic04 quic05   
## 0.352 0.460   
## quic06 quic07   
## 0.443 0.426   
## quic08 quic09   
## 0.347 0.327   
## quic10 quic11   
## 0.725 0.645   
## quic12 quic13   
## 0.505 0.657   
## quic14 quic15   
## 0.540 0.702   
## quic16 quic17   
## 0.683 0.482   
## quic18 quic19   
## 0.312 0.344   
## quic20 quic21   
## 0.380 0.457   
## quic22 quic23   
## 0.370 0.474   
## quic24 quic25   
## 0.533 0.543   
## quic26 quic27   
## 0.606 0.679   
## quic28 quic29   
## 0.648 0.365   
## quic30 quic31   
## 0.333 0.470   
## quic32 quic33   
## 0.424 0.432   
## quic34 quic35   
## 0.452 0.594   
## quic36 quic37   
## 0.543 0.457   
## change\_env01 change\_env02   
## 0.660 0.539   
## change\_env03 change\_env04   
## 0.354 0.342   
## unp\_partners\_father\_binned unp\_partners\_mother\_binned   
## 0.617 0.520   
## unp\_household\_size unp\_moving\_binned   
## 0.931 0.432   
##   
## Loadings:  
## Factor1 Factor2 Factor3 Factor4 Factor5  
## chaos01 0.496 0.201   
## chaos02 0.261 0.540 0.127   
## chaos03 0.412 0.349   
## chaos04 0.154 0.276 0.467   
## chaos05 0.120 0.566 0.104   
## chaos06 0.370 0.464   
## chaos07 0.446 0.160 0.151   
## chaos08 0.671 0.221   
## chaos09 0.439 0.353   
## chaos10 0.431 0.350   
## chaos11 0.707 0.117   
## chaos12 0.598 0.290 0.141   
## chaos13 0.225 0.137   
## chaos14 0.566 0.237 0.189   
## chaos15 0.144 0.507 0.121   
## unp01 0.630 0.152   
## unp02 0.786 0.133   
## unp03 0.144 0.689   
## unp04 0.128 0.179 0.461   
## unp05 0.715   
## unp06 0.945 -0.102   
## unp07 0.721 0.160   
## unp08 0.786   
## quic01 0.414 0.116 0.147   
## quic02 0.652   
## quic03 0.530 0.145   
## quic04 0.745 0.106   
## quic05 0.697   
## quic06 0.662 0.156   
## quic07 0.746   
## quic08 -0.118 0.825   
## quic09 0.258 0.724   
## quic10 0.138 0.275 0.169   
## quic11 0.325 0.175 0.173 0.133   
## quic12 0.688 0.103   
## quic13 0.190 0.157 0.130 0.315   
## quic14 0.108 0.580   
## quic15 0.262 0.252 0.111   
## quic16 0.556   
## quic17 0.206 0.496 0.155   
## quic18 0.750   
## quic19 0.821   
## quic20 0.820   
## quic21 0.722   
## quic22 0.498 0.169 -0.112 0.406   
## quic23 0.137 0.635   
## quic24 0.630   
## quic25 0.153 0.592   
## quic26 0.262 0.180 0.432   
## quic27 0.193 0.244 0.362   
## quic28 0.236 0.158 0.380   
## quic29 0.734 0.139   
## quic30 0.852   
## quic31 0.123 0.695   
## quic32 0.230 0.650   
## quic33 0.745   
## quic34 0.697   
## quic35 0.171 0.218 0.235 0.266   
## quic36 0.422 0.316   
## quic37 0.638 0.106   
## change\_env01 0.394 0.173 0.180   
## change\_env02 0.357 0.304 0.214   
## change\_env03 0.780   
## change\_env04 0.830   
## unp\_partners\_father\_binned 0.167 -0.143 0.548   
## unp\_partners\_mother\_binned 0.161 0.605   
## unp\_household\_size 0.181 0.143 -0.122   
## unp\_moving\_binned 0.649 0.179   
##   
## Factor1 Factor2 Factor3 Factor4 Factor5  
## SS loadings 10.376 5.800 4.195 4.099 3.840  
## Proportion Var 0.153 0.085 0.062 0.060 0.056  
## Cumulative Var 0.153 0.238 0.300 0.360 0.416  
##   
## Factor Correlations:  
## Factor1 Factor2 Factor3 Factor4 Factor5  
## Factor1 1.000 0.327 -0.512 0.578 0.426  
## Factor2 0.327 1.000 -0.313 0.247 0.453  
## Factor3 -0.512 -0.313 1.000 -0.429 -0.379  
## Factor4 0.578 0.247 -0.429 1.000 0.210  
## Factor5 0.426 0.453 -0.379 0.210 1.000  
##   
## Test of the hypothesis that 5 factors are sufficient.  
## The chi square statistic is 5809.86 on 1948 degrees of freedom.  
## The p-value is 0

tidy(efa\_model) %>%   
 mutate(across(starts\_with("fl"), ~ifelse(. < .32, NA, .))) %>%   
 left\_join(codebook %>% rename(variable = Variable)) %>%   
 arrange(fl1, fl2, fl3, fl4, fl5) %>%   
 mutate(  
 Label = case\_when(  
 variable == "unp\_moving\_binned" ~ "Residential changes",   
 variable == "unp\_partners\_father\_binned" ~ "Romantic partners - father",   
 variable == "unp\_partners\_mother\_binned" ~ "Romantic partners - mother",   
 variable == "unp\_household\_size" ~ "Household size",  
 variable == "unp03" ~ "My parents had a difficult divorce or separation during this time.",  
 TRUE ~ Label  
 ),  
 variable = case\_when(  
 str\_detect(variable, "quic") ~ "QUIC - ",  
 str\_detect(variable, "unp\\d\\d") ~ "Perceived - ",  
 str\_detect(variable, "chaos") ~ "CHAOS - ",  
 str\_detect(variable, "change\_env") ~ "Changes - ",  
 TRUE ~ ""  
 )  
 ) %>%   
 unite(col = "Item", c(variable, Label), sep = "") %>%  
 select(Item, fl1, fl2, fl3, fl4, fl5) %>%   
 mutate(across(starts\_with("fl"), ~round(., 2))) %>%  
 rename(  
 `1` = fl1,  
 `2` = fl2,  
 `3` = fl3,  
 `4` = fl4,  
 `5` = fl5  
 ) %>%  
 flextable(cwidth = c(5, .6,.6,.6,.6,.6))

## Joining, by = "variable"

| Item | 1 | 2 | 3 | 4 | 5 |
| --- | --- | --- | --- | --- | --- |
| Changes - Family environment. | 0.36 |  |  |  |  |
| CHAOS - It was a real zoo in our home. | 0.37 |  |  | 0.46 |  |
| CHAOS - We almost always seemed to be rushed. | 0.41 |  |  | 0.35 |  |
| CHAOS - You couldn't hear yourself think in our home. | 0.43 |  |  | 0.35 |  |
| CHAOS - No matter what our family planned, it usually didn't seem to work out. | 0.44 |  |  | 0.35 |  |
| CHAOS - At home we could talk to each other without being interrupted. | 0.45 |  |  |  |  |
| CHAOS - There was very little commotion in our home. | 0.50 |  |  |  |  |
| QUIC - My parents had a stable relationship with each other. | 0.50 |  |  |  | 0.41 |
| CHAOS - The atmosphere in our home was calm. | 0.57 |  |  |  |  |
| CHAOS - Our home was a good place to relax. | 0.60 |  |  |  |  |
| Perceived - My family life was generally inconsistent and unpredictable from day-to-day. | 0.63 |  |  |  |  |
| QUIC - I did not feel safe in my home. | 0.64 |  |  |  |  |
| CHAOS - There was often a fuss going on at our home. | 0.67 |  |  |  |  |
| QUIC - At least one of my parents had punishments that were unpredictable. | 0.69 |  |  |  |  |
| CHAOS - I often got drawn into other people's arguments at home. | 0.71 |  |  |  |  |
| Perceived - When I woke up, I often didn't know what could happen in my house that day. | 0.71 |  |  |  |  |
| Perceived - Things were often chaotic in my house. | 0.72 |  |  |  |  |
| QUIC - One of my parents could go from calm to stressed or nervous in an instant. | 0.72 |  |  |  |  |
| QUIC - At least one of my parents was unpredictable. | 0.75 |  |  |  |  |
| Perceived - I had a hard time knowing what my parent(s) or other people in my house were going to say. | 0.79 |  |  |  |  |
| Perceived - My parent(s) frequently had arguments or fights with each other or other people in my childhood. | 0.79 |  |  |  |  |
| QUIC - One of my parents could go from calm to furious in an instant. | 0.82 |  |  |  |  |
| QUIC - For at least one of my parents, when they were upset I did not know how they would act. | 0.82 |  |  |  |  |
| Perceived - My family environment was often tense and "on edge". | 0.94 |  |  |  |  |
| QUIC - I usually knew when my parents were going to be home. |  | 0.33 |  |  |  |
| QUIC - I had a set morning routine on school days (i.e., I usually did the same thing each day to get ready). |  | 0.41 |  |  |  |
| CHAOS - First thing in the day, we had a regular routine at home. |  | 0.51 |  |  |  |
| QUIC - My family ate a meal together most days. |  | 0.53 |  |  |  |
| QUIC - My family had holiday traditions that we did every year (e.g., cooking a special food at a particular time of year/decorate the house the same way). |  | 0.56 |  |  |  |
| QUIC - My family planned activities to do together. |  | 0.58 |  |  |  |
| QUIC - My parents kept track of what I ate (e.g., made sure that I didn’t skip meals or tried to make sure I ate healthy food). |  | 0.65 |  |  |  |
| QUIC - In my afterschool or free time hours at least one of my parents knew what I was doing. |  | 0.66 |  |  |  |
| QUIC - I had a bedtime routine (e.g, my parents tucked me in, my parents read me a book, I took a bath). |  | 0.70 |  |  |  |
| QUIC - At least one parent made time each day to see how I was doing. |  | 0.72 |  |  |  |
| QUIC - My parents tried to make sure I got a good night’s sleep (e.g., I had a regular bedtime, my parents checked to make sure I went to sleep). |  | 0.75 |  |  |  |
| QUIC - At least one of my parents regularly checked that I did my homework. |  | 0.75 |  |  |  |
| QUIC - At least one of my parents regularly kept track of my school progress. |  | 0.83 |  |  |  |
| Changes - Economic status. |  |  | 0.39 |  |  |
| Residential changes |  |  | 0.65 |  |  |
| QUIC - I changed schools mid-year. |  |  | 0.70 |  |  |
| QUIC - I moved homes. |  |  | 0.73 |  |  |
| Changes - Your childhood neighborhood environment. |  |  | 0.78 |  |  |
| Changes - Your childhood school environment. |  |  | 0.83 |  |  |
| QUIC - I changed schools. |  |  | 0.85 |  |  |
| QUIC - I worried that my family would not have enough money to pay for necessities like clothing or bills. |  |  |  | 0.42 |  |
| CHAOS - We were usually able to stay on top of things. |  |  |  | 0.47 |  |
| QUIC - At least one of my parents was disorganized. |  |  |  | 0.50 |  |
| CHAOS - We could usually find things when we needed them. |  |  |  | 0.54 |  |
| CHAOS - No matter how hard we tried, we always seemed to be running late. |  |  |  | 0.57 |  |
| QUIC - I lived in a clean house. |  |  |  | 0.65 |  |
| QUIC - In my house things I needed were often misplaced so that I could not find them. |  |  |  | 0.70 |  |
| QUIC - I lived in a cluttered house (e.g., piles of stuff everywhere). |  |  |  | 0.75 |  |
| QUIC - One of my parents was unemployed and couldn't find a job even though he/she wanted one. |  |  |  |  | 0.36 |
| QUIC - There were people coming and going in my house that I did not expect to be there. |  |  |  |  | 0.38 |
| QUIC - At least one of my parents changed jobs. |  |  |  |  | 0.43 |
| Perceived - People often moved in and out of my house on a pretty random basis. |  |  |  |  | 0.46 |
| Romantic partners - father |  |  |  |  | 0.55 |
| QUIC - I experienced changes in my custody arrangement. |  |  |  |  | 0.59 |
| Romantic partners - mother |  |  |  |  | 0.60 |
| QUIC - There were long periods of time when I didn’t see one of my parents (e.g. military deployment, jail time, custody arrangements). |  |  |  |  | 0.63 |
| QUIC - At least one of my parents had many romantic partners. |  |  |  |  | 0.63 |
| Perceived - My parents had a difficult divorce or separation during this time. |  |  |  |  | 0.69 |
| CHAOS - The telephone took up a lot of our time at home. |  |  |  |  |  |
| QUIC - My parents were very late to pick me up (e.g., from school, aftercare or sports). |  |  |  |  |  |
| QUIC - I often wondered whether or not one of my parents would come home at the end of the day. |  |  |  |  |  |
| QUIC - At least one of my parents would plan something for the family, but then not follow through with the plan. |  |  |  |  |  |
| QUIC - I worried that I was not going to have enough food to eat. |  |  |  |  |  |
| Household size |  |  |  |  |  |