R Code for Calculating the Relative Importance of Each Component in a PD Observed Score

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```
# Estimated variance of each component
  fam < -0.473
  imo < -0.129
  ifa \leftarrow 0.417
  ioc <- 0.099
  iyc <- 0
  mofa <- 0.261
  mooc <- 0.168
 moyc < -0.063
 faoc <- 0.045
  fayc <-0.094
  ycoc <- 0.473
# function for calculating amount of relative variance (no need to modify, just run the following lines
relvar <- function(c1, c2, c3, c4){
  tot <- c1+c2+c3+c4
  rv1 <- round(c1/tot*100,2)
  rv2 <- round(c2/tot*100,2)
 rv3 <- round(c3/tot*100,2)
 rv4 \leftarrow round(c4/tot*100,2)
  cat("% of variance explained by", deparse(substitute(c1)), " = ",rv1,
      "\n% of variance explained by", deparse(substitute(c2)), " = ",rv2,
      "\n% of variance explained by", deparse(substitute(c3)), " = ",rv3,
      "\n% of variance explained by", deparse(substitute(c4)), " = ",rv4)
}
# Use this function for calculate the relative variances of each PD score
  # tell R by which components the PD scores is defined
 relvar(c1 = fam, c2 = imo, c3 = ifa, c4 = mofa)
## \% of variance explained by fam = 36.95
## \% of variance explained by imo = 10.08
## \% of variance explained by ifa = 32.58
## % of variance explained by mofa = 20.39
relvar(c1 = fam, c2 = imo, c3 = ioc, c4 = mooc)
## % of variance explained by fam = 54.43
## % of variance explained by imo = 14.84
## \% of variance explained by ioc = 11.39
## % of variance explained by mooc = 19.33
relvar(c1 = fam, c2 = imo, c3 = iyc, c4 = moyc)
## % of variance explained by fam = 71.13
## \% of variance explained by imo = 19.4
## % of variance explained by iyc = 0
```

```
## \% of variance explained by moyc = 9.47
relvar(c1 = fam, c2 = ifa, c3 = ioc, c4 = faoc)
## % of variance explained by fam = 45.74
## \% of variance explained by ifa = 40.33
## % of variance explained by ioc = 9.57
## \% of variance explained by faoc = 4.35
relvar(c1 = fam, c2 = ifa, c3 = iyc, c4 = fayc)
## % of variance explained by fam = 48.07
## \% of variance explained by ifa = 42.38
## \% of variance explained by iyc = 0
## \% of variance explained by fayc = 9.55
relvar(c1 = fam, c2 = iyc, c3 = ioc, c4 = ycoc)
## % of variance explained by fam = 45.26
## \% of variance explained by iyc = 0
## \% of variance explained by ioc = 9.47
## \% of variance explained by ycoc = 45.26
```