Study 3: Code Translation from SPSS to R

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Contents

Reported Results for Study 3

Crombach's Alpha

- Harm: .69
- Fairness: .69
- Ingroup: .69
- Authority: .67
- Purity: .58

Moral Foundations Sacredness Scale

- The aggregated moral sacredness ratings for individualizing foundations were higher than the aggregated ratings for binding foundations $F(1, 6596) = 3689.66$, $p < .001$, $\eta^2 = .36$.
- This effect was moderated by politics $F(1, 6596) = 236.28$, $p < .001$, $\eta^2 = .18$.

Setup

```
# Load Data
s3 <- read.csv("GrahamS3data.csv")
```

```
########## Load Packages ############

library(psych)
library(tidyverse)
```

```
## -- Attaching packages ----------------- tidyverse 1.2.1 --
```

```
## v ggplot2 3.2.0     v purrr   0.3.2
## v tibble  2.1.3     v dplyr   0.8.1
## v tidyr   0.8.3     v stringr 1.4.0
## v readr   1.3.1     v forcats 0.4.0
```

```
## -- Conflicts -------------------- tidyverse_conflicts() --
## x ggplot2::%+%()   masks psych::%+%()
## x ggplot2::alpha() masks psych::alpha()
## x dplyr::filter()  masks stats::filter()
## x dplyr::lag()     masks stats::lag()
```

```
########## Check Variables ##############

str(s3$gender)
```

```
##  int [1:8193] 1 0 1 1 1 1 1 0 1 1 ...
```

```
s3$gender <- as.factor(s3$gender)
class(s3$gender)
```

```
## [1] "factor"
```

Code Translation

Regression of Harm foundation average by gender, age, politics and religion

```
REGRESSION
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT SACRED_HARM_AVG
```

```
/METHOD=ENTER gender Age politics Religion_attend_num.
```

```
summary(lm(SACRED_HARM_AVG ~ gender + Age + politics + Religion_attend_num,
    data = s3))
```

```
##
## Call:
## lm(formula = SACRED_HARM_AVG ~ gender + Age + politics + Religion_attend_num,
##     data = s3)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -5.4204 -0.5943  0.1123  0.7305  2.3986
##
## Coefficients:
##                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)          6.2056024  0.0459695 134.994  < 2e-16 ***
## gender1             -0.5261164  0.0274317 -19.179  < 2e-16 ***
## Age                  0.0148666  0.0009083  16.368  < 2e-16 ***
## politics            -0.0787257  0.0093412  -8.428  < 2e-16 ***
## Religion_attend_num  0.0864505  0.0135379   6.386 1.83e-10 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.061 on 6261 degrees of freedom
##   (1927 observations deleted due to missingness)
## Multiple R-squared:  0.1114, Adjusted R-squared:  0.1108
## F-statistic: 196.3 on 4 and 6261 DF,  p-value: < 2.2e-16
```

Regression of Fairness foundation average by gender, age, politics and religion

```
REGRESSION
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT SACRED_FAIRNESS_AVG
/METHOD=ENTER gender Age politics Religion_attend_num.
```

```
summary(lm(SACRED_FAIRNESS_AVG ~ gender + Age + politics + Religion_attend_num,
    data = s3))
```

```
##
## Call:
```

```
## lm(formula = SACRED_FAIRNESS_AVG ~ gender + Age + politics +
##     Religion_attend_num, data = s3)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -5.7570 -0.5939  0.2066  0.7835  1.8519
##
## Coefficients:
##                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)          6.0087314  0.0461380 130.234  < 2e-16 ***
## gender1             -0.2262413  0.0275274  -8.219 2.48e-16 ***
## Age                  0.0191709  0.0009114  21.035  < 2e-16 ***
## politics             0.0068524  0.0093752   0.731    0.465
## Religion_attend_num  0.1303736  0.0135882   9.595  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.064 on 6263 degrees of freedom
##   (1925 observations deleted due to missingness)
## Multiple R-squared:  0.09433,    Adjusted R-squared:  0.09375
## F-statistic: 163.1 on 4 and 6263 DF,  p-value: < 2.2e-16
```

Regression of Ingroup foundation average by gender, age, politics and religion

```
REGRESSION
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT SACRED_INGROUP_AVG
/METHOD=ENTER gender Age politics Religion_attend_num.
```

```
summary(lm(SACRED_INGROUP_AVG ~ gender + Age + politics + Religion_attend_num,
    data = s3))
```

```
##
## Call:
## lm(formula = SACRED_INGROUP_AVG ~ gender + Age + politics + Religion_attend_num,
##     data = s3)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -5.0448 -0.8102  0.0438  0.8574  3.4807
```

```
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          4.096599   0.054261   75.50   <2e-16 ***
## gender1             -0.424087   0.032380  -13.10   <2e-16 ***
## Age                  0.014173   0.001072   13.22   <2e-16 ***
## politics             0.246250   0.011028   22.33   <2e-16 ***
## Religion_attend_num  0.248396   0.015982   15.54   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.252 on 6263 degrees of freedom
##   (1925 observations deleted due to missingness)
## Multiple R-squared:  0.1917, Adjusted R-squared:  0.1912
## F-statistic: 371.4 on 4 and 6263 DF,  p-value: < 2.2e-16
```

Regression of Authority foundation average by gender, age, politics and religion

```
REGRESSION
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT SACRED_AUTHORITY_AVG
/METHOD=ENTER gender Age politics Religion_attend_num.
```

```
summary(lm(SACRED_AUTHORITY_AVG ~ gender + Age + politics + Religion_attend_num,
    data = s3))
```

```
##
## Call:
## lm(formula = SACRED_AUTHORITY_AVG ~ gender + Age + politics +
##     Religion_attend_num, data = s3)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -5.1752 -0.9847 -0.1010  0.9567  4.6616
##
## Coefficients:
##                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)          2.85881    0.06227   45.91   <2e-16 ***
## gender1             -0.46390    0.03716  -12.48   <2e-16 ***
## Age                  0.02032    0.00123   16.52   <2e-16 ***
```

```
## politics             0.23811    0.01265   18.82   <2e-16 ***
## Religion_attend_num  0.28866    0.01834   15.74   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.437 on 6262 degrees of freedom
##   (1926 observations deleted due to missingness)
## Multiple R-squared:  0.1808, Adjusted R-squared:  0.1803
## F-statistic: 345.5 on 4 and 6262 DF,  p-value: < 2.2e-16
```

Regression of Purity foundation average by gender, age, politics and religion

```
REGRESSION
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT SACRED_PURITY_AVG
/METHOD=ENTER gender Age politics Religion_attend_num.
```

```
summary(lm(SACRED_PURITY_AVG ~ gender + Age + politics + Religion_attend_num,
    data = s3))
```

```
##
## Call:
## lm(formula = SACRED_PURITY_AVG ~ gender + Age + politics + Religion_attend_num,
##     data = s3)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -5.6974 -0.8270  0.0367  0.8671  2.9541
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          5.353434   0.051461 104.029  < 2e-16 ***
## gender1             -0.674210   0.030707 -21.956  < 2e-16 ***
## Age                  0.005878   0.001017   5.781  7.8e-09 ***
## politics             0.196203   0.010457  18.762  < 2e-16 ***
## Religion_attend_num  0.209061   0.015156  13.794  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.187 on 6262 degrees of freedom
```

```
##   (1926 observations deleted due to missingness)
## Multiple R-squared:  0.1736, Adjusted R-squared:  0.1731
## F-statistic: 328.8 on 4 and 6262 DF,  p-value: < 2.2e-16
```