Replication Log for National Identity, Social Preferences, and Foreign Policy Attitudes: Experimental Evidence from Japan

Disclaimer: This analysis was conducted using RStudio version 1.2.5033 on Mac Mojave OS 10.14.6. Replication on a different OS might require additional corrections.

R code for analysis/replication is saved as "Chung FPA Replication.R" and data are saved as "Chung_FPA_Prosociality.sav."

```
##############################
## load data and packages
##############################
library(memisc)
library(foreign)
library(mediation)
MyData <- read.spss("~/Downloads/ Chung_FPA_Prosociality.sav") #insert data location before file name

##############################
## Main finding 1 (Figure 3)
## Mediation analysis for
## Cooperative foreign policy
## Code for 1000 sims; note that numbers may slightly differ each time
##############################
MonX <- glm(Prosociality~NIA,data=MyData,family=binomial("logit")) #logistic regression for M
0: proself, 1: prosocial
summary(MonX)

Call:
glm(formula = Prosociality ~ NIA, family = binomial("logit"), data = MyData)

Deviance Residuals:
   Min      1Q  Median      3Q     Max
-1.6465  -1.4111   0.7722   0.9605   0.9605

Coefficients:
            Estimate Std. Error z value Pr(>|z|)
(Intercept)   0.5344     0.1122   4.763 1.91e-06 ***
NIA           0.5230     0.2311   2.263   0.0236 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 600.68  on 468  degrees of freedom
Residual deviance: 595.34  on 467  degrees of freedom
  (308 observations deleted due to missingness)
AIC: 599.34

Number of Fisher Scoring iterations: 4


YonXM <- lm(CoopFP~NIA+ProRecode,data=MyData) #linear regression
summary(YonXM)

Call:
lm(formula = CoopFP ~ NIA + ProRecode, data = MyData)

Residuals:
     Min       1Q   Median       3Q      Max
-0.68785 -0.03946 -0.01785  0.06215  0.37054

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.629460   0.014269  44.115  < 2e-16 ***
NIA         0.005328   0.018093   0.294 0.768536
ProRecode   0.058391   0.017026   3.429 0.000658 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1736 on 466 degrees of freedom
  (308 observations deleted due to missingness)
Multiple R-squared:  0.0255,  Adjusted R-squared:  0.02132
F-statistic: 6.098 on 2 and 466 DF,  p-value: 0.002432


med.output <- mediate(MonX,YonXM,treat="NIA",mediator="ProRecode",
                      boot=TRUE,sims=1000,dropobs=TRUE)
summary(med.output)

Causal Mediation Analysis

Nonparametric Bootstrap Confidence Intervals with the Percentile Method

               Estimate 95% CI Lower 95% CI Upper p-value
ACME           0.006812    -0.000286         0.02   0.058 .
```

```
ADE            0.005785    -0.027046        0.04   0.784
Total Effect    0.012597    -0.021145        0.05   0.492
Prop. Mediated  0.540766    -3.603166        6.29   0.508
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Sample Size Used: 469


Simulations: 1000


##############################
## Main finding 2 (Figure 4)
## Mediation analysis for
## Militaristic foreign policy
## Code for 1000 sims; note that numbers may slightly differ each time
##############################
MonX <- glm(ProRecode~NIA,data=MyData,family=binomial("logit")) #logistic regression for M
0/1
summary(MonX)

Call:
glm(formula = ProRecode ~ NIA, family = binomial("logit"), data = MyData)

Deviance Residuals:
   Min      1Q  Median      3Q     Max
-1.6465  -1.4111   0.7722   0.9605   0.9605

Coefficients:
            Estimate Std. Error z value Pr(>|z|)
(Intercept)   0.5344     0.1122   4.763 1.91e-06 ***
NIA           0.5230     0.2311   2.263   0.0236 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 600.68  on 468  degrees of freedom
Residual deviance: 595.34  on 467  degrees of freedom
  (308 observations deleted due to missingness)
AIC: 599.34

Number of Fisher Scoring iterations: 4
```

```
YonXM <- lm(MilitFP~NIA+ProRecode,data=MyData) #linear regression
summary(YonXM)

Call:
lm(formula = MilitFP ~ NIA + ProRecode, data = MyData)

Residuals:
    Min      1Q  Median      3Q     Max
-0.47077 -0.12432 -0.01015  0.16630  0.61630

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.45432    0.01909  23.804  < 2e-16 ***
NIA          0.01645    0.02420   0.680  0.49697
ProRecode   -0.07062    0.02277  -3.101  0.00205 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2322 on 466 degrees of freedom
  (308 observations deleted due to missingness)
Multiple R-squared:  0.02048,           Adjusted R-squared:  0.01627
F-statistic: 4.871 on 2 and 466 DF,  p-value: 0.00806


med.output <- mediate(MonX,YonXM,treat="NIA",mediator="ProRecode",
                boot=TRUE,sims=1000,dropobs=TRUE)

summary(med.output)

Causal Mediation Analysis

Nonparametric Bootstrap Confidence Intervals with the Percentile Method

               Estimate 95% CI Lower 95% CI Upper p-value
ACME          -0.00894     -0.01840        0.00   0.036 *
ADE            0.01587     -0.03465        0.06   0.530
Total Effect   0.00693     -0.04150        0.05   0.754
Prop. Mediated -1.28901     -4.34781        5.66   0.776
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Sample Size Used: 469
```

Simulations: 1000

```
##############################
## Main finding 3 (Table 2)
## Logistic regression analysis
## Prosociality by different affirmation types
##############################
mylogit <- glm(ProRecode~Affrm_Condition,data=MyData,family=binomial("logit")) #logistic
regression
summary(mylogit)

Call:
glm(formula = Prosociality ~ Affrm_Condition, family = binomial("logit"),
   data = MyData)

Deviance Residuals:
   Min      1Q  Median      3Q     Max
-1.6465  -1.3357   0.7722   0.9552   1.0270

Coefficients:
                              Estimate Std. Error z value Pr(>|z|)
(Intercept)                     0.3646     0.1841   1.981   0.0476 *
Affrm_ConditionSelfAffirmed     0.3412     0.2687   1.270   0.2041
Affrm_ConditionAsiaAffirmed     0.1833     0.2767   0.663   0.5076
Affrm_ConditionNatIdentityAffirmed  0.6927     0.2733   2.534   0.0113 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

   Null deviance: 600.68  on 468  degrees of freedom
Residual deviance: 593.71  on 465  degrees of freedom
  (308 observations deleted due to missingness)
AIC: 601.71

Number of Fisher Scoring iterations: 4


##############################
## Main finding 4 (Table 3)
## Linear regression analysis
```

```
## Militaristic Foreign Policy by National Chauvinism
#############################
mod1 <- lm(MilitFP~Chauvinism,data=MyData)
summary(mod1)

Call:
lm(formula = MilitFP ~ Chauvinism, data = MyData)

Residuals:
    Min      1Q  Median      3Q     Max
-0.58121 -0.05325 -0.00144  0.03680  0.73105

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.317456   0.009757   32.54   <2e-16 ***
Chauvinism  0.303170   0.024911   12.17   <2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.1667 on 775 degrees of freedom
Multiple R-squared:  0.1604,  Adjusted R-squared:  0.1594
F-statistic: 148.1 on 1 and 775 DF,  p-value: < 2.2e-16


mod2 <- lm(MilitFP~Q381,data=MyData)
summary(mod2)

Call:
lm(formula = MilitFP ~ Q381, data = MyData)

Residuals:
    Min      1Q  Median      3Q     Max
-0.54984 -0.15832 -0.01783  0.14353  0.74874

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.24977    0.02891   8.639  < 2e-16 ***
Q381Somewhat  0.16110    0.03145   5.123 4.47e-07 ***
Q381VeryMuch  0.30158    0.03864   7.804 4.19e-14 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.2221 on 453 degrees of freedom
  (321 observations deleted due to missingness)
```

```
Multiple R-squared:  0.1187,  Adjusted R-squared:  0.1148
F-statistic: 30.51 on 2 and 453 DF,  p-value: 3.716e-13


mod3 <- lm(MilitFP~Q382,data=MyData)
summary(mod3)

Call:
lm(formula = MilitFP ~ Q382, data = MyData)

Residuals:
    Min      1Q  Median      3Q     Max
-0.52343 -0.17420 -0.01284  0.14853  0.59263

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.26216    0.02918   8.985  < 2e-16 ***
Q382Somewhat  0.14372    0.03193   4.500 8.63e-06 ***
Q382VeryMuch  0.26278    0.03686   7.129 4.01e-12 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2241 on 453 degrees of freedom
  (321 observations deleted due to missingness)
Multiple R-squared:  0.1025,  Adjusted R-squared:  0.09852
F-statistic: 25.86 on 2 and 453 DF,  p-value: 2.31e-11


mod4 <- lm(MilitFP~Q383,data=MyData)
summary(mod4)

Call:
lm(formula = MilitFP ~ Q383, data = MyData)

Residuals:
    Min      1Q  Median      3Q     Max
-0.62258 -0.14106 -0.02929  0.13208  0.70541

Coefficients:
                    Estimate Std. Error t value Pr(>|t|)
(Intercept)          0.29310    0.01841  15.917  < 2e-16 ***
Q383SomewhatDisagree  0.12922    0.02305   5.606 3.62e-08 ***
Q383SomewhatAgree     0.26438    0.03122   8.468 3.54e-16 ***
Q383StronglyAgree     0.44937    0.06709   6.698 6.28e-11 ***
```

```
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.214 on 452 degrees of freedom
  (321 observations deleted due to missingness)
Multiple R-squared:  0.1838,  Adjusted R-squared:  0.1784
F-statistic: 33.92 on 3 and 452 DF,  p-value: < 2.2e-16


mod5 <- lm(MilitFP~Q384,data=MyData)
summary(mod5)

Call:
lm(formula = MilitFP ~ Q384, data = MyData)

Residuals:
    Min      1Q  Median      3Q     Max
-0.52979 -0.13858 -0.01404  0.14732  0.74569

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.25281    0.02957   8.550  < 2e-16 ***
Q384Somewhat  0.15426    0.03220   4.790 2.26e-06 ***
Q384VeryMuch  0.27848    0.03755   7.416 6.00e-13 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2232 on 453 degrees of freedom
  (321 observations deleted due to missingness)
Multiple R-squared:  0.1095,  Adjusted R-squared:  0.1055
F-statistic: 27.84 on 2 and 453 DF,  p-value: 3.952e-12
```