## moderated\_regressions

## 2024-04-13

```
overall.resource <- rowSums(data[c(118:144,147:202)], na.rm=TRUE)
summary(overall.resource) #202.3
##
      Min. 1st Qu. Median
                              Mean 3rd Qu.
                                              Max.
##
            164.0
                    202.0
                             202.3
                                     239.0
                                             359.0
overall.hindrance <- rowSums(data[c(203:247,249:287)], na.rm=TRUE)
summary(overall.hindrance) #159.2
##
      Min. 1st Qu. Median
                              Mean 3rd Qu.
                                              Max.
##
              92.0
                    120.0
                             130.6
                                     159.2
                                             332.0
overall.challenge <- rowSums(data[c(288:307,309:372)], na.rm=TRUE)
summary(overall.challenge) #204.2
##
      Min. 1st Qu. Median
                             Mean 3rd Qu.
                                              Max.
      31.0
                     205.0
                             204.2
                                             376.0
##
           166.8
                                     241.0
#centered predictors
overall.resource_center <- overall.resource - 202.3</pre>
overall.hindrance_center <- overall.hindrance - 159.2
overall.challenge center <- overall.challenge - 204.2
challenge_resource_burnout_model1 <- lm(burnout ~ overall.challenge_center, data = data)</pre>
summary(challenge resource burnout model1)
## Call:
## lm(formula = burnout ~ overall.challenge_center, data = data)
## Residuals:
                  1Q
                      Median
                                            Max
## -2.14223 -0.56798 -0.02587 0.57037 2.30705
##
## Coefficients:
##
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                            3.0765676 0.0344929 89.194 < 2e-16 ***
## overall.challenge_center 0.0028800 0.0006104 4.718 3.01e-06 ***
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.8221 on 566 degrees of freedom
## Multiple R-squared: 0.03784,
                                    Adjusted R-squared: 0.03614
## F-statistic: 22.26 on 1 and 566 DF, p-value: 3.005e-06
challenge resource burnout model2 <- lm(burnout ~ overall.challenge center + overall.resource, data = d
summary(challenge_resource_burnout_model2)
```

```
##
## Call:
## lm(formula = burnout ~ overall.challenge center + overall.resource,
       data = data)
##
## Residuals:
                 10 Median
                                    30
## -2.14784 -0.55993 -0.02048 0.56032 2.33875
## Coefficients:
##
                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                                 9.060 < 2e-16 ***
                                       0.388100
                             3.516157
## overall.challenge_center 0.004902
                                       0.001880
                                                   2.608 0.00935 **
## overall.resource
                                       0.001910 -1.137 0.25595
                            -0.002172
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 0.8218 on 565 degrees of freedom
## Multiple R-squared: 0.04004,
                                   Adjusted R-squared: 0.03664
## F-statistic: 11.78 on 2 and 565 DF, p-value: 9.706e-06
challenge_resource_burnout_model3 <- lm(burnout ~ overall.challenge_center + overall.resource_center +
summary(challenge_resource_burnout_model3)
##
## Call:
## lm(formula = burnout ~ overall.challenge_center + overall.resource_center +
      overall.challenge center * overall.resource center, data = data)
##
## Residuals:
       Min
##
                  1Q
                     Median
                                    30
                                            Max
## -2.11654 -0.56282 -0.01794 0.56352 2.19726
## Coefficients:
                                                      Estimate Std. Error t value
##
## (Intercept)
                                                     3.039e+00 4.253e-02 71.457
                                                     4.887e-03 1.877e-03
## overall.challenge_center
                                                                            2.603
## overall.resource_center
                                                    -2.113e-03 1.909e-03 -1.107
## overall.challenge_center:overall.resource_center 1.260e-05 8.397e-06
                                                                            1.500
                                                    Pr(>|t|)
## (Intercept)
                                                     < 2e-16 ***
## overall.challenge_center
                                                     0.00949 **
## overall.resource_center
                                                     0.26864
## overall.challenge_center:overall.resource_center 0.13410
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.8209 on 564 degrees of freedom
## Multiple R-squared: 0.04385,
                                   Adjusted R-squared: 0.03877
## F-statistic: 8.622 on 3 and 564 DF, p-value: 1.328e-05
aov_test <- anova(challenge_resource_burnout_model2, challenge_resource_burnout_model3)</pre>
challenge_resource_stress_model1 <- lm(stress ~ overall.challenge_center, data = data)</pre>
summary(challenge_resource_stress_model1)
```

```
##
## Call:
## lm(formula = stress ~ overall.challenge_center, data = data)
## Residuals:
##
      Min
               1Q Median
                               3Q
                                      Max
## -1.8336 -0.7458 -0.1144 0.6063 2.3467
## Coefficients:
##
                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                           2.8072704 0.0371882 75.488
                                                          <2e-16 ***
## overall.challenge_center 0.0011559 0.0006581
                                                 1.756
                                                          0.0796 .
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.8863 on 566 degrees of freedom
## Multiple R-squared: 0.00542,
                                   Adjusted R-squared:
## F-statistic: 3.084 on 1 and 566 DF, p-value: 0.07959
challenge_resource_stress_model2 <- lm(stress ~ overall.challenge_center + overall.resource_center, dat
summary(challenge_resource_stress_model2)
##
## Call:
## lm(formula = stress ~ overall.challenge_center + overall.resource_center,
       data = data)
##
## Residuals:
      Min
               1Q Median
                               3Q
                                      Max
## -1.8363 -0.7460 -0.1151 0.6200 2.3621
##
## Coefficients:
                            Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                            2.807336
                                       0.037213 75.440 <2e-16 ***
## overall.challenge_center 0.002138
                                       0.002028
                                                 1.054
                                                           0.292
## overall.resource_center -0.001056
                                       0.002061 -0.512
                                                           0.609
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.8869 on 565 degrees of freedom
## Multiple R-squared: 0.005881,
                                   Adjusted R-squared:
## F-statistic: 1.671 on 2 and 565 DF, p-value: 0.1889
challenge_resource_stress_model3 <- lm(stress ~ overall.challenge_center + overall.resource_center + ov
summary(challenge_resource_stress_model3)
##
## Call:
## lm(formula = stress ~ overall.challenge_center + overall.resource_center +
       overall.challenge_center * overall.resource_center, data = data)
##
## Residuals:
##
      Min
                1Q Median
                               3Q
                                      Max
## -1.8270 -0.7422 -0.1060 0.6042 2.3197
```

##

```
## Coefficients:
##
                                                     Estimate Std. Error t value
## (Intercept)
                                                    2.796e+00 4.598e-02 60.808
## overall.challenge_center
                                                    2.134e-03 2.030e-03 1.051
## overall.resource center
                                                   -1.038e-03 2.063e-03 -0.503
## overall.challenge center:overall.resource center 3.777e-06 9.078e-06 0.416
                                                   Pr(>|t|)
## (Intercept)
                                                     <2e-16 ***
## overall.challenge_center
                                                      0.294
## overall.resource_center
                                                      0.615
## overall.challenge_center:overall.resource_center
                                                      0.678
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.8875 on 564 degrees of freedom
## Multiple R-squared: 0.006186, Adjusted R-squared: 0.0009
## F-statistic: 1.17 on 3 and 564 DF, p-value: 0.3204
anova(challenge_resource_stress_model2, challenge_resource_stress_model3)
## Analysis of Variance Table
##
## Model 1: stress ~ overall.challenge_center + overall.resource_center
## Model 2: stress ~ overall.challenge_center + overall.resource_center +
      overall.challenge_center * overall.resource_center
              RSS Df Sum of Sq
##
    Res.Df
                                    F Pr(>F)
## 1
       565 444.40
                       0.13637 0.1731 0.6775
## 2
       564 444.26 1
challenge resource engagement model1 <- lm(engagement ~ overall.challenge center, data = data)
summary(challenge_resource_engagement_model1)
##
## Call:
## lm(formula = engagement ~ overall.challenge_center, data = data)
## Residuals:
                 1Q
                     Median
                                   3Q
## -2.17865 -0.48845 0.04284 0.50833 1.94756
## Coefficients:
                            Estimate Std. Error t value Pr(>|t|)
##
                           3.9377285 0.0304092 129.491
## (Intercept)
                                                        <2e-16 ***
## overall.challenge_center 0.0048648 0.0005382
                                                  9.039 <2e-16 ***
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 0.7247 on 566 degrees of freedom
## Multiple R-squared: 0.1262, Adjusted R-squared: 0.1246
## F-statistic: 81.71 on 1 and 566 DF, p-value: < 2.2e-16
challenge_resource_engagement_model2 <- lm(engagement ~ overall.challenge_center + overall.resource_cen
summary(challenge_resource_engagement_model2)
##
## Call:
```

```
## lm(formula = engagement ~ overall.challenge_center + overall.resource_center,
##
       data = data)
##
## Residuals:
                 1Q
                     Median
                                   3Q
## -2.24757 -0.44561 0.02106 0.50377 2.05256
## Coefficients:
##
                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                            3.937310
                                       0.030007 131.212 < 2e-16 ***
## overall.challenge_center -0.001375
                                       0.001636 -0.840
                                                            0.401
                                       0.001662
                                                   4.033 6.25e-05 ***
## overall.resource_center
                            0.006705
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.7152 on 565 degrees of freedom
## Multiple R-squared: 0.1506, Adjusted R-squared: 0.1476
## F-statistic: 50.09 on 2 and 565 DF, p-value: < 2.2e-16
challenge_resource_engagement_model3 <- lm(engagement ~ overall.challenge_center + overall.resource_cen
summary(challenge_resource_engagement_model3)
##
## Call:
## lm(formula = engagement ~ overall.challenge_center + overall.resource_center +
       overall.challenge_center * overall.resource_center, data = data)
##
## Residuals:
##
       Min
                 1Q
                     Median
                                   30
                                           Max
## -2.13608 -0.44285 0.04568 0.49986 2.11889
##
## Coefficients:
                                                      Estimate Std. Error t value
##
## (Intercept)
                                                     3.990e+00 3.689e-02 108.132
## overall.challenge_center
                                                    -1.354e-03 1.629e-03 -0.831
## overall.resource_center
                                                     6.623e-03 1.656e-03
                                                                           4.000
## overall.challenge_center:overall.resource_center -1.757e-05 7.284e-06 -2.412
##
                                                    Pr(>|t|)
## (Intercept)
                                                     < 2e-16 ***
## overall.challenge_center
                                                      0.4061
## overall.resource_center
                                                    7.17e-05 ***
## overall.challenge_center:overall.resource_center
                                                     0.0162 *
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.7121 on 564 degrees of freedom
## Multiple R-squared: 0.1593, Adjusted R-squared: 0.1548
## F-statistic: 35.62 on 3 and 564 DF, p-value: < 2.2e-16
anova(challenge_resource_engagement_model2, challenge_resource_engagement_model3)
## Analysis of Variance Table
##
## Model 1: engagement ~ overall.challenge_center + overall.resource_center
## Model 2: engagement ~ overall.challenge_center + overall.resource_center +
```

```
overall.challenge_center * overall.resource_center
##
              RSS Df Sum of Sq
##
    Res.Df
                                    F Pr(>F)
## 1
       565 288.96
       564 286.01 1
                        2.9497 5.8167 0.01619 *
## 2
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
hindrance_resource_model1 <- lm(burnout ~ overall.hindrance_center, data = data)</pre>
summary(hindrance resource model1)
##
## Call:
## lm(formula = burnout ~ overall.hindrance_center, data = data)
## Residuals:
##
       Min
                 1Q
                     Median
                                   3Q
## -2.13591 -0.57171 -0.01545 0.59889 2.09771
## Coefficients:
                            Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                           3.1461346  0.0391796  80.300  < 2e-16 ***
## overall.hindrance_center 0.0024335 0.0006341 3.838 0.000138 ***
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.8274 on 566 degrees of freedom
## Multiple R-squared: 0.02536,
                                   Adjusted R-squared: 0.02364
## F-statistic: 14.73 on 1 and 566 DF, p-value: 0.0001383
hindrance resource burnout model2 <- lm(burnout ~ overall.hindrance center + overall.resource center, d
summary(hindrance_resource_burnout_model2)
##
## Call:
## lm(formula = burnout ~ overall.hindrance_center + overall.resource_center,
      data = data)
##
##
## Residuals:
       Min
                 1Q Median
                                   3Q
                                           Max
## -2.12332 -0.56370 -0.02907 0.58262 2.17927
##
## Coefficients:
##
                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                           3.1208983 0.0402285 77.579 <2e-16 ***
## overall.hindrance_center 0.0015537 0.0007193
                                                  2.160
                                                          0.0312 *
## overall.resource_center 0.0018053 0.0007083
                                                  2.549
                                                          0.0111 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8234 on 565 degrees of freedom
## Multiple R-squared: 0.03644,
                                  Adjusted R-squared: 0.03303
## F-statistic: 10.68 on 2 and 565 DF, p-value: 2.794e-05
hindrance_resource_burnout_model3 <- lm(burnout ~ overall.hindrance_center + overall.resource_center +
summary(hindrance_resource_burnout_model3)
```

```
##
## Call:
## lm(formula = burnout ~ overall.hindrance center + overall.resource center +
       overall.hindrance_center * overall.resource_center, data = data)
## Residuals:
                 10 Median
                                   30
## -2.15552 -0.57598 -0.01376 0.54285 2.25992
## Coefficients:
##
                                                      Estimate Std. Error t value
## (Intercept)
                                                     3.190e+00 4.785e-02 66.667
## overall.hindrance_center
                                                     2.458e-03 7.943e-04
                                                                            3.095
                                                                            0.560
## overall.resource_center
                                                     4.845e-04 8.658e-04
## overall.hindrance_center:overall.resource_center -2.938e-05 1.119e-05 -2.625
##
                                                    Pr(>|t|)
## (Intercept)
                                                     < 2e-16 ***
## overall.hindrance center
                                                     0.00206 **
                                                     0.57596
## overall.resource_center
## overall.hindrance_center:overall.resource_center 0.00889 **
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8191 on 564 degrees of freedom
## Multiple R-squared: 0.04807,
                                   Adjusted R-squared: 0.04301
## F-statistic: 9.493 on 3 and 564 DF, p-value: 3.983e-06
anova(hindrance_resource_burnout_model2, hindrance_resource_burnout_model3)
## Analysis of Variance Table
##
## Model 1: burnout ~ overall.hindrance_center + overall.resource_center
## Model 2: burnout ~ overall.hindrance_center + overall.resource_center +
       overall.hindrance center * overall.resource center
              RSS Df Sum of Sq
##
    Res.Df
                                    F Pr(>F)
## 1
       565 383.05
## 2
       564 378.43 1
                        4.6248 6.8927 0.00889 **
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
hindrance_resource_stress_model1 <- lm(stress ~ overall.hindrance_center, data = data)
summary(hindrance_resource_stress_model1)
##
## Call:
## lm(formula = stress ~ overall.hindrance_center, data = data)
##
## Residuals:
      Min
               1Q Median
                               30
                                      Max
## -1.8121 -0.7200 -0.0884 0.6043 2.2777
## Coefficients:
##
                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                           2.8553075 0.0418576 68.215
## overall.hindrance_center 0.0016791 0.0006775
                                                  2.478
                                                           0.0135 *
```

```
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.8839 on 566 degrees of freedom
## Multiple R-squared: 0.01074,
                                   Adjusted R-squared:
## F-statistic: 6.143 on 1 and 566 DF, p-value: 0.01349
hindrance_resource_stress_model2 <- lm(stress ~ overall.hindrance_center + overall.resource_center, dat
summary(hindrance resource stress model2)
##
## Call:
## lm(formula = stress ~ overall.hindrance_center + overall.resource_center,
      data = data)
##
## Residuals:
       Min
                 10 Median
## -1.81761 -0.72833 -0.08537 0.60341 2.29045
## Coefficients:
                            Estimate Std. Error t value Pr(>|t|)
                           2.8515608 0.0432198 65.978
## (Intercept)
                                                         <2e-16 ***
## overall.hindrance_center 0.0015485 0.0007728
                                                  2.004
                                                          0.0456 *
## overall.resource_center 0.0002680 0.0007610
                                                  0.352
                                                          0.7248
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.8846 on 565 degrees of freedom
## Multiple R-squared: 0.01095, Adjusted R-squared: 0.007452
## F-statistic: 3.129 on 2 and 565 DF, p-value: 0.04454
hindrance_resource_stress_model3 <- lm(stress ~ overall.hindrance_center + overall.resource_center + ov
summary(hindrance_resource_stress_model3)
##
## Call:
## lm(formula = stress ~ overall.hindrance_center + overall.resource_center +
##
      overall.hindrance_center * overall.resource_center, data = data)
##
## Residuals:
               1Q Median
                               3Q
      Min
## -1.7104 -0.7210 -0.0859 0.6115 2.4066
##
## Coefficients:
##
                                                     Estimate Std. Error t value
## (Intercept)
                                                    2.957e+00 5.107e-02 57.903
                                                    2.939e-03 8.479e-04
## overall.hindrance_center
                                                                          3.466
## overall.resource center
                                                   -1.761e-03 9.242e-04 -1.906
## overall.hindrance_center:overall.resource_center -4.515e-05 1.195e-05 -3.779
                                                   Pr(>|t|)
## (Intercept)
                                                    < 2e-16 ***
## overall.hindrance_center
                                                   0.000569 ***
                                                   0.057204 .
## overall.resource_center
## overall.hindrance_center:overall.resource_center 0.000174 ***
```

## ---

```
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8744 on 564 degrees of freedom
## Multiple R-squared: 0.03538,
                                  Adjusted R-squared: 0.03025
## F-statistic: 6.895 on 3 and 564 DF, p-value: 0.0001449
anova(hindrance_resource_stress_model2, hindrance_resource_stress_model3)
## Analysis of Variance Table
## Model 1: stress ~ overall.hindrance_center + overall.resource_center
## Model 2: stress ~ overall.hindrance_center + overall.resource_center +
      overall.hindrance_center * overall.resource_center
   Res.Df
              RSS Df Sum of Sq
                                   F
## 1
       565 442.13
       564 431.21 1
                        10.918 14.28 0.0001743 ***
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
hindrance_resource_engagement_model1 <- lm(engagement ~ overall.hindrance_center, data = data)
summary(hindrance resource engagement model1)
##
## lm(formula = engagement ~ overall.hindrance_center, data = data)
## Residuals:
       Min
                 1Q
                     Median
                                   30
                                           Max
## -2.18603 -0.52067 0.03724 0.54935 2.00709
##
## Coefficients:
##
                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                           3.9682458 0.0366070 108.401
## overall.hindrance_center 0.0010732 0.0005925
                                                 1.811
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 0.773 on 566 degrees of freedom
## Multiple R-squared: 0.005763,
                                  Adjusted R-squared: 0.004006
## F-statistic: 3.281 on 1 and 566 DF, p-value: 0.07062
hindrance_resource_engagement_model2 <- lm(engagement ~ overall.hindrance_center + overall.resource_cen
summary(hindrance_resource_engagement_model2)
##
## lm(formula = engagement ~ overall.hindrance_center + overall.resource_center,
##
      data = data)
##
## Residuals:
                 1Q
                     Median
                                   3Q
## -2.06045 -0.45357 0.03325 0.49002 1.92982
## Coefficients:
                             Estimate Std. Error t value Pr(>|t|)
                            3.8796802  0.0346395  112.002  < 2e-16 ***
## (Intercept)
```

```
## overall.hindrance_center -0.0020146 0.0006194 -3.253 0.00121 **
## overall.resource_center
                            0.0063355 0.0006099 10.387 < 2e-16 ***
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 0.709 on 565 degrees of freedom
## Multiple R-squared: 0.1652, Adjusted R-squared: 0.1622
## F-statistic: 55.9 on 2 and 565 DF, p-value: < 2.2e-16
hindrance_resource_engagement_model3 <- lm(engagement ~ overall.hindrance_center + overall.resource_cen
summary(hindrance resource engagement model3)
##
## Call:
## lm(formula = engagement ~ overall.hindrance_center + overall.resource_center +
       overall.hindrance_center * overall.resource_center, data = data)
##
## Residuals:
      Min
               1Q Median
                               3Q
## -2.0638 -0.4538 0.0330 0.4890 1.9611
## Coefficients:
                                                     Estimate Std. Error t value
## (Intercept)
                                                    3.888e+00 4.144e-02 93.809
## overall.hindrance_center
                                                   -1.907e-03 6.880e-04 -2.771
                                                    6.178e-03 7.500e-04
## overall.resource_center
                                                                          8.237
## overall.hindrance_center:overall.resource_center -3.509e-06 9.695e-06 -0.362
                                                   Pr(>|t|)
## (Intercept)
                                                    < 2e-16 ***
## overall.hindrance center
                                                    0.00577 **
                                                   1.24e-15 ***
## overall.resource_center
## overall.hindrance_center:overall.resource_center 0.71751
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.7095 on 564 degrees of freedom
## Multiple R-squared: 0.1654, Adjusted R-squared: 0.1609
## F-statistic: 37.25 on 3 and 564 DF, p-value: < 2.2e-16
anova(hindrance_resource_engagement_model2, hindrance_resource_engagement_model3)
## Analysis of Variance Table
## Model 1: engagement ~ overall.hindrance_center + overall.resource_center
## Model 2: engagement ~ overall.hindrance_center + overall.resource_center +
      overall.hindrance_center * overall.resource_center
    Res.Df
              RSS Df Sum of Sq
##
                                   F Pr(>F)
       565 284.01
## 2
       564 283.94 1 0.065961 0.131 0.7175
options(scipen=999) ## Suppresses scientific notation
# b weights
chal.2.burn <- round(summary(challenge_resource_burnout_model2)$coefficients[2, 1],6)</pre>
res.2.burn <- round(summary(challenge_resource_burnout_model2)$coefficients[3, 1],6)
```

Table 1:

DV	Step	Model	b	DeltaR
Burnout	1	Challenge	0.004902	
		Resource	-0.002172	0.04 **
	2	Challenge X Resource	0.000013	0.0039

```
int.3.burn <- round(summary(challenge_resource_burnout_model3)$coefficients[4, 1],6)

#r squared
challenge_resource_burnout_model2_r <- round(summary(challenge_resource_burnout_model2)$r.squared,4)
challenge_resource_burnout_model3_r <- round(summary(challenge_resource_burnout_model3)$r.squared,4)

## R square change
challenge_resource_burnout_anova <- anova(challenge_resource_burnout_model2, challenge_resource_burnout
challenge_resource_burnout_r_square_change <- round(challenge_resource_burnout_model3_r - challenge_res

library(kableExtra)

DV <- c("Burnout","","")
Step <- c("1", "","2")
Model <- c("Challenge", "Resource", "Challenge X Resource")
b <- c(chal.2.burn,res.2.burn,int.3.burn)
DeltaR <- c("",paste(challenge_resource_burnout_model2_r,"**"),challenge_resource_burnout_r_square_changer
regtable <- cbind(DV, Step, Model, b, DeltaR)

papaja::apa_table(regtable)</pre>
```