Run MATRIX procedure:

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This version of PROCESS requires SPSS version 26 or later

Workshop schedule available at haskayne.ucalgary.ca/CCRAM

In SPSS 29 and later, change default output font to Courier New for tidier

output. More information about PROCESS at processmacro.org/faq.html.

This beta release has not been completely tested. Use at your own risk.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* PROCESS Procedure for SPSS Version 5.0 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Written by Andrew F. Hayes, Ph.D. www.afhayes.com

Documentation available in Hayes (2022). www.guilford.com/p/hayes3

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Model: 4**

**Y: wynik**

**X: oczek**

**M: czas**

Sample

Size: 20

Variable descriptive statistics

wynik oczek czas

Mean 12,9000 13,0500 13,0500

SD 2,2455 1,3169 1,6376

Min 10,0000 11,0000 10,0000

Max 18,0000 16,0000 16,0000

Variable intercorrelations (Pearson r)

wynik oczek czas

wynik 1,0000 0,5001 0,6885

oczek 0,5001 1,0000 0,5113

czas 0,6885 0,5113 1,0000

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

czas

Model Summary

R R-sq MSE F df1 df2 p

0,5113 0,2614 2,0905 6,3717 1,0000 18,0000 0,0212

Model

coeff se t p LLCI ULCI

constant 4,7527 3,3030 1,4389 0,1673 -2,1866 11,6919

oczek 0,6358 0,2519 2,5242 0,0212 0,1066 1,1650

Scale-free and standardized measures of association

r sr pr standYX standY standX

oczek 0,5113 0,5113 0,5113 0,5113 0,3883 0,8373

eta-sq p\_eta-sq f-sq

oczek 0,2614 0,2614 0,3540

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

wynik

Model Summary

R R-sq MSE F df1 df2 p

0,7097 0,5037 2,7968 8,6270 2,0000 17,0000 0,0026

Model

coeff se t p LLCI ULCI

constant -2,0477 4,0341 -0,5076 0,6183 -10,5588 6,4635

oczek 0,3420 0,3390 1,0087 0,3272 -0,3733 1,0572

czas 0,8035 0,2726 2,9471 0,0090 0,2283 1,3786

Scale-free and standardized measures of association

r sr pr standYX standY standX

oczek 0,5001 0,1724 0,2376 0,2006 0,1523 0,4503

czas 0,6885 0,5036 0,5815 0,5859 0,3578 1,3157

eta-sq p\_eta-sq f-sq

oczek 0,0297 0,0565 0,0599

czas 0,2536 0,3381 0,5109

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* TOTAL EFFECT MODEL \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

wynik

Model Summary

R R-sq MSE F df1 df2 p

0,5001 0,2501 3,9909 6,0046 1,0000 18,0000 0,0247

Model

coeff se t p LLCI ULCI

constant 1,7709 4,5636 0,3880 0,7025 -7,8169 11,3587

oczek 0,8528 0,3480 2,4504 0,0247 0,1216 1,5840

Scale-free and standardized measures of association

r sr pr standYX standY standX

oczek 0,5001 0,5001 0,5001 0,5001 0,3798 1,1231

eta-sq p\_eta-sq f-sq

oczek 0,2501 0,2501 0,3336

\*\*\*\*\*\*\*\*\*\*\*\*\*\* TOTAL, DIRECT, AND INDIRECT EFFECTS OF X ON Y \*\*\*\*\*\*\*\*\*\*\*\*\*\*

Total effect of X on Y

Effect se t p LLCI ULCI c\_cs

0,8528 0,3480 2,4504 0,0247 0,1216 1,5840 0,5001

Direct effect of X on Y

Effect se t p LLCI ULCI c'\_cs

0,3420 0,3390 1,0087 0,3272 -0,3733 1,0572 0,2006

Indirect effect(s) of X on Y:

Effect BootSE BootLLCI BootULCI

czas 0,5108 0,2958 0,0304 1,2212

Completely standardized (StandYX) indirect effect(s) of X on Y:

Effect BootSE BootLLCI BootULCI

czas 0,2996 0,1696 0,0170 0,6989

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND ERRORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Level of confidence for all confidence intervals in output:

95,0000

Number of bootstrap samples for percentile bootstrap confidence intervals:

5000

------ END MATRIX -----

======================================================================================================================Run MATRIX procedure:

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output. More information about PROCESS at processmacro.org/faq.html.

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* PROCESS Procedure for SPSS Version 5.0 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Written by Andrew F. Hayes, Ph.D. www.afhayes.com

Documentation available in Hayes (2022). www.guilford.com/p/hayes3

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Model: 4**

**Y: reaction**

**X: cond**

**M1: import**

**M2: pmi**

Sample

Size: 123

Variable descriptive statistics

reaction cond import pmi

Mean 3,4837 0,4715 4,2033 5,6016

SD 1,5503 0,5012 1,7366 1,3213

Min 1,0000 0,0000 1,0000 1,0000

Max 7,0000 1,0000 7,0000 7,0000

Variable intercorrelations (Pearson r)

reaction cond import pmi

reaction 1,0000 0,1603 0,4648 0,4465

cond 0,1603 1,0000 0,1809 0,1808

import 0,4648 0,1809 1,0000 0,2821

pmi 0,4465 0,1808 0,2821 1,0000

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

import

Model Summary

R R-sq MSE F df1 df2 p

0,1809 0,0327 2,9411 4,0942 1,0000 121,0000 0,0452

Model

coeff se t p LLCI ULCI

constant 3,9077 0,2127 18,3704 0,0000 3,4866 4,3288

cond 0,6268 0,3098 2,0234 0,0452 0,0135 1,2401

Scale-free and standardized measures of association

r sr pr standYX standY standX

cond 0,1809 0,1809 0,1809 0,1809 0,3609 0,3142

eta-sq p\_eta-sq f-sq

cond 0,0327 0,0327 0,0338

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

pmi

Model Summary

R R-sq MSE F df1 df2 p

0,1808 0,0327 1,7026 4,0878 1,0000 121,0000 0,0454

Model

coeff se t p LLCI ULCI

constant 5,3769 0,1618 33,2222 0,0000 5,0565 5,6973

cond 0,4765 0,2357 2,0218 0,0454 0,0099 0,9431

Scale-free and standardized measures of association

r sr pr standYX standY standX

cond 0,1808 0,1808 0,1808 0,1808 0,3607 0,2388

eta-sq p\_eta-sq f-sq

cond 0,0327 0,0327 0,0338

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

reaction

Model Summary

R R-sq MSE F df1 df2 p

0,5702 0,3251 1,6628 19,1118 3,0000 119,0000 0,0000

Model

coeff se t p LLCI ULCI

constant -0,1498 0,5298 -0,2828 0,7778 -1,1989 0,8993

cond 0,1034 0,2391 0,4324 0,6662 -0,3700 0,5768

import 0,3244 0,0707 4,5857 0,0000 0,1843 0,4645

pmi 0,3965 0,0930 4,2645 0,0000 0,2124 0,5806

Scale-free and standardized measures of association

r sr pr standYX standY standX

cond 0,1603 0,0326 0,0396 0,0334 0,0667 0,0518

import 0,4648 0,3453 0,3875 0,3634 0,2093 0,5634

pmi 0,4465 0,3211 0,3641 0,3379 0,2558 0,5239

eta-sq p\_eta-sq f-sq

cond 0,0011 0,0016 0,0016

import 0,1193 0,1502 0,1767

pmi 0,1031 0,1326 0,1528

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* DIRECT AND INDIRECT EFFECTS OF X ON Y \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Direct effect of X on Y

Effect se t p LLCI ULCI c'\_ps

0,1034 0,2391 0,4324 0,6662 -0,3700 0,5768 0,0667

Indirect effect(s) of X on Y:

Effect BootSE BootLLCI BootULCI

TOTAL 0,3923 0,1640 0,0940 0,7329

import 0,2033 0,1143 0,0090 0,4542

pmi 0,1890 0,1046 0,0104 0,4187

Partially standardized (StandY) indirect effect(s) of X on Y:

Effect BootSE BootLLCI BootULCI

TOTAL 0,2530 0,1031 0,0614 0,4625

import 0,1312 0,0726 0,0056 0,2880

pmi 0,1219 0,0668 0,0070 0,2676

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND ERRORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Level of confidence for all confidence intervals in output:

95,0000

Number of bootstrap samples for percentile bootstrap confidence intervals:

5000

------ END MATRIX -----

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Model: 6**

**Y: reaction**

**X: cond**

**M1: import**

**M2: pmi**

Sample

Size: 123

Variable descriptive statistics

reaction cond import pmi

Mean 3,4837 0,4715 4,2033 5,6016

SD 1,5503 0,5012 1,7366 1,3213

Min 1,0000 0,0000 1,0000 1,0000

Max 7,0000 1,0000 7,0000 7,0000

Variable intercorrelations (Pearson r)

reaction cond import pmi

reaction 1,0000 0,1603 0,4648 0,4465

cond 0,1603 1,0000 0,1809 0,1808

import 0,4648 0,1809 1,0000 0,2821

pmi 0,4465 0,1808 0,2821 1,0000

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

import

Model Summary

R R-sq MSE F df1 df2 p

0,1809 0,0327 2,9411 4,0942 1,0000 121,0000 0,0452

Model

coeff se t p LLCI ULCI

constant 3,9077 0,2127 18,3704 0,0000 3,4866 4,3288

cond 0,6268 0,3098 2,0234 0,0452 0,0135 1,2401

Scale-free and standardized measures of association

r sr pr standYX standY standX

cond 0,1809 0,1809 0,1809 0,1809 0,3609 0,3142

eta-sq p\_eta-sq f-sq

cond 0,0327 0,0327 0,0338

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

pmi

Model Summary

R R-sq MSE F df1 df2 p

0,3114 0,0970 1,6027 6,4428 2,0000 120,0000 0,0022

Model

coeff se t p LLCI ULCI

constant 4,6104 0,3057 15,0836 0,0000 4,0053 5,2156

cond 0,3536 0,2325 1,5207 0,1310 -0,1068 0,8139

import 0,1961 0,0671 2,9228 0,0041 0,0633 0,3290

Scale-free and standardized measures of association

r sr pr standYX standY standX

cond 0,1808 0,1319 0,1375 0,1341 0,2676 0,1772

import 0,2821 0,2536 0,2578 0,2578 0,1485 0,3406

eta-sq p\_eta-sq f-sq

cond 0,0174 0,0189 0,0193

import 0,0643 0,0665 0,0712

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

reaction

Model Summary

R R-sq MSE F df1 df2 p

0,5702 0,3251 1,6628 19,1118 3,0000 119,0000 0,0000

Model

coeff se t p LLCI ULCI

constant -0,1498 0,5298 -0,2828 0,7778 -1,1989 0,8993

cond 0,1034 0,2391 0,4324 0,6662 -0,3700 0,5768

import 0,3244 0,0707 4,5857 0,0000 0,1843 0,4645

pmi 0,3965 0,0930 4,2645 0,0000 0,2124 0,5806

Scale-free and standardized measures of association

r sr pr standYX standY standX

cond 0,1603 0,0326 0,0396 0,0334 0,0667 0,0518

import 0,4648 0,3453 0,3875 0,3634 0,2093 0,5634

pmi 0,4465 0,3211 0,3641 0,3379 0,2558 0,5239

eta-sq p\_eta-sq f-sq

cond 0,0011 0,0016 0,0016

import 0,1193 0,1502 0,1767

pmi 0,1031 0,1326 0,1528

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* DIRECT AND INDIRECT EFFECTS OF X ON Y \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Direct effect of X on Y

Effect se t p LLCI ULCI c'\_ps

0,1034 0,2391 0,4324 0,6662 -0,3700 0,5768 0,0667

Indirect effect(s) of X on Y:

Effect BootSE BootLLCI BootULCI

TOTAL 0,3923 0,1626 0,0950 0,7246

Ind1 0,2033 0,1144 0,0047 0,4563

Ind2 0,1402 0,1000 -0,0432 0,3560

Ind3 0,0488 0,0358 0,0000 0,1377

Partially standardized (StandY) indirect effect(s) of X on Y:

Effect BootSE BootLLCI BootULCI

TOTAL 0,2530 0,1020 0,0628 0,4601

Ind1 0,1312 0,0724 0,0029 0,2879

Ind2 0,0904 0,0644 -0,0276 0,2283

Ind3 0,0314 0,0227 0,0000 0,0871

Indirect effect key:

Ind1 cond -> import -> reaction

Ind2 cond -> pmi -> reaction

Ind3 cond -> import -> pmi -> reaction

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND ERRORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Level of confidence for all confidence intervals in output:

95,0000

Number of bootstrap samples for percentile bootstrap confidence intervals:

5000

------ END MATRIX -----

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Model: 1**

**Y: depre**

**X: wrazenia**

**W: plec**

Sample

Size: 40

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

depre

Model Summary

R R-sq MSE F df1 df2 p

0,8491 0,7210 4,1630 31,0058 3,0000 36,0000 0,0000

Model

coeff se t p LLCI ULCI

constant 11,1365 1,0595 10,5112 0,0000 8,9878 13,2853

wrazenia 0,0144 0,0837 0,1720 0,8644 -0,1554 0,1842

plec -9,1807 1,0595 -8,6652 0,0000 -11,3295 -7,0320

Int\_1 0,7992 0,0837 9,5431 0,0000 0,6293 0,9690

Product terms key:

Int\_1 : wrazenia x plec

Test(s) of highest order unconditional interaction(s):

R2-chng F df1 df2 p

X\*W 0,7059 91,0716 1,0000 36,0000 0,0000

----------

Focal predict: wrazenia (X)

Mod var: plec (W)

Conditional effects of the focal predictor at values of the moderator(s):

plec Effect se t p LLCI ULCI

-1,0000 -0,7848 0,1174 -6,6841 0,0000 -1,0229 -0,5467

1,0000 0,8136 0,1194 6,8114 0,0000 0,5713 1,0558

Data for visualizing the conditional effect of the focal predictor:

Paste text below into a SPSS syntax window and execute to produce plot.

DATA LIST FREE/

wrazenia plec depre .

BEGIN DATA.

8,0000 -1,0000 14,0391

12,0000 -1,0000 10,9000

16,4400 -1,0000 7,4156

8,0000 1,0000 8,4644

12,0000 1,0000 11,7186

16,4400 1,0000 15,3309

END DATA.

GRAPH/SCATTERPLOT=

wrazenia WITH depre BY plec .

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND ERRORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Level of confidence for all confidence intervals in output:

95,0000

------ END MATRIX -----

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Model: 1**

**Y: agresja**

**X: frustrac**

**W: depre**

Sample

Size: 40

Variable descriptive statistics

agresja frustrac depre

Mean 10,3000 12,0000 11,3500

SD 3,3066 3,1050 3,7110

Min 6,0000 8,0000 6,0000

Max 19,0000 18,0000 20,0000

Variable intercorrelations (Pearson r)

agresja frustrac depre

agresja 1,0000 0,5619 0,5491

frustrac 0,5619 1,0000 0,3560

depre 0,5491 0,3560 1,0000

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

agresja

Model Summary

R R-sq MSE F df1 df2 p

0,7260 0,5271 5,6018 13,3730 3,0000 36,0000 0,0000

Model

coeff se t p LLCI ULCI

constant 10,9393 4,6068 2,3746 0,0230 1,5963 20,2824

frustrac -0,3638 0,3706 -0,9815 0,3329 -1,1155 0,3879

depre -0,4794 0,3739 -1,2822 0,2080 -1,2377 0,2789

Int\_1 0,0654 0,0280 2,3370 0,0251 0,0086 0,1221

Product terms key:

Int\_1 : frustrac x depre

Test(s) of highest order unconditional interaction(s):

R2-chng F df1 df2 p

X\*W 0,0717 5,4614 1,0000 36,0000 0,0251

----------

Focal predict: frustrac (X)

Mod var: depre (W)

Conditional effects of the focal predictor at values of the moderator(s):

depre Effect se t p LLCI ULCI

7,6390 0,1357 0,1865 0,7276 0,4715 -0,2425 0,5140

11,3500 0,3784 0,1339 2,8265 0,0076 0,1069 0,6499

15,0610 0,6210 0,1504 4,1295 0,0002 0,3160 0,9260

Moderator value(s) defining Johnson-Neyman significance region(s):

Value % below % above

10,0846 47,5000 52,5000

Conditional effect of focal predictor at values of the moderator:

depre Effect se t p LLCI ULCI

6,0000 0,0285 0,2216 0,1288 0,8982 -0,4208 0,4779

6,7000 0,0743 0,2061 0,3606 0,7205 -0,3436 0,4923

7,4000 0,1201 0,1913 0,6276 0,5342 -0,2680 0,5081

8,1000 0,1659 0,1775 0,9342 0,3564 -0,1942 0,5259

8,8000 0,2116 0,1649 1,2834 0,2076 -0,1228 0,5461

9,5000 0,2574 0,1537 1,6744 0,1027 -0,0544 0,5692

10,0846 0,2956 0,1458 2,0281 0,0500 0,0000 0,5913

10,2000 0,3032 0,1444 2,1001 0,0428 0,0104 0,5959

10,9000 0,3489 0,1372 2,5438 0,0154 0,0707 0,6271

11,6000 0,3947 0,1325 2,9788 0,0052 0,1260 0,6635

12,3000 0,4405 0,1306 3,3716 0,0018 0,1755 0,7054

13,0000 0,4863 0,1317 3,6921 0,0007 0,2191 0,7534

13,7000 0,5320 0,1356 3,9232 0,0004 0,2570 0,8071

14,4000 0,5778 0,1421 4,0652 0,0002 0,2895 0,8660

15,1000 0,6236 0,1509 4,1315 0,0002 0,3175 0,9297

15,8000 0,6693 0,1616 4,1411 0,0002 0,3415 0,9971

16,5000 0,7151 0,1739 4,1124 0,0002 0,3624 1,0678

17,2000 0,7609 0,1874 4,0602 0,0003 0,3808 1,1409

17,9000 0,8066 0,2019 3,9952 0,0003 0,3972 1,2161

18,6000 0,8524 0,2172 3,9244 0,0004 0,4119 1,2929

19,3000 0,8982 0,2332 3,8523 0,0005 0,4253 1,3711

20,0000 0,9440 0,2496 3,7816 0,0006 0,4377 1,4502

Data for visualizing the conditional effect of the focal predictor:

Paste text below into a SPSS syntax window and execute to produce plot.

DATA LIST FREE/

frustrac depre agresja .

BEGIN DATA.

8,8950 7,6390 8,4843

12,0000 7,6390 8,9057

15,1050 7,6390 9,3271

8,8950 11,3500 8,8636

12,0000 11,3500 10,0385

15,1050 11,3500 11,2133

8,8950 15,0610 9,2430

12,0000 15,0610 11,1712

15,1050 15,0610 13,0995

END DATA.

GRAPH/SCATTERPLOT=

frustrac WITH agresja BY depre .

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND ERRORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Level of confidence for all confidence intervals in output:

95,0000

W values in conditional tables are the mean and +/- SD from the mean.

------ END MATRIX -----

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Model: 1**

**Y: govact**

**X: negemot**

**W: age**

**Covariates:**

**posemot sex ideology**

Sample

Size: 815

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

govact

Model Summary

R R-sq MSE F df1 df2 p

0,6331 0,4008 1,1172 90,0798 6,0000 808,0000 0,0000

Model

coeff se t p LLCI ULCI

constant 5,5322 0,1459 37,9057 0,0000 5,2458 5,8187

negemot 0,4332 0,0262 16,5067 0,0000 0,3817 0,4847

age -0,0014 0,0023 -0,5769 0,5642 -0,0060 0,0033

Int\_1 0,0063 0,0015 4,1035 0,0000 0,0033 0,0094

posemot -0,0214 0,0279 -0,7676 0,4430 -0,0762 0,0334

sex -0,0112 0,0760 -0,1472 0,8830 -0,1604 0,1380

ideology -0,2115 0,0268 -7,8827 0,0000 -0,2642 -0,1588

Product terms key:

Int\_1 : negemot x age

Test(s) of highest order unconditional interaction(s):

R2-chng F df1 df2 p

X\*W 0,0125 16,8391 1,0000 808,0000 0,0000

----------

Focal predict: negemot (X)

Mod var: age (W)

Conditional effects of the focal predictor at values of the moderator(s):

age Effect se t p LLCI ULCI

-19,5362 0,3095 0,0413 7,4875 0,0000 0,2284 0,3906

1,4638 0,4425 0,0262 16,8999 0,0000 0,3911 0,4938

17,4638 0,5437 0,0363 14,9955 0,0000 0,4726 0,6149

Data for visualizing the conditional effect of the focal predictor:

Paste text below into a SPSS syntax window and execute to produce plot.

DATA LIST FREE/

negemot age govact .

BEGIN DATA.

-1,8880 -19,5362 4,0381

0,1120 -19,5362 4,6571

1,7720 -19,5362 5,1709

-1,8880 1,4638 3,7586

0,1120 1,4638 4,6436

1,7720 1,4638 5,3780

-1,8880 17,4638 3,5457

0,1120 17,4638 4,6332

1,7720 17,4638 5,5358

END DATA.

GRAPH/SCATTERPLOT=

negemot WITH govact BY age .

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND ERRORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Level of confidence for all confidence intervals in output:

95,0000

W values in conditional tables are the 16th, 50th, and 84th percentiles.

NOTE: The following variables were mean centered prior to analysis:

age negemot

------ END MATRIX -----

========================================================================================

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Model: 2**

**Y: govact**

**X: negemot**

**W: age**

**Z: sex**

**Covariates:**

**posemot ideology**

Sample

Size: 815

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

govact

Model Summary

R R-sq MSE F df1 df2 p

0,6426 0,4129 1,0960 81,0915 7,0000 807,0000 0,0000

Model

coeff se t p LLCI ULCI

constant 5,5298 0,1436 38,5107 0,0000 5,2480 5,8117

negemot 0,4282 0,0260 16,4564 0,0000 0,3771 0,4793

age -0,0013 0,0023 -0,5727 0,5670 -0,0059 0,0032

Int\_1 0,0047 0,0016 3,0134 0,0027 0,0017 0,0078

sex -0,0142 0,0753 -0,1883 0,8507 -0,1619 0,1336

Int\_2 0,2045 0,0501 4,0836 0,0000 0,1062 0,3028

posemot -0,0235 0,0276 -0,8489 0,3962 -0,0777 0,0308

ideology -0,2068 0,0266 -7,7721 0,0000 -0,2590 -0,1545

Product terms key:

Int\_1 : negemot x age

Int\_2 : negemot x sex

Test(s) of highest order unconditional interaction(s):

R2-chng F df1 df2 p

X\*W 0,0066 9,0804 1,0000 807,0000 0,0027

X\*Z 0,0121 16,6759 1,0000 807,0000 0,0000

BOTH 0,0246 16,9208 2,0000 807,0000 0,0000

----------

Focal predict: negemot (X)

Mod var: age (W)

Mod var: sex (Z)

Conditional effects of the focal predictor at values of the moderator(s):

age sex Effect se t p LLCI ULCI

-19,5362 -0,4883 0,2356 0,0448 5,2619 0,0000 0,1477 0,3234

-19,5362 0,5117 0,4400 0,0519 8,4718 0,0000 0,3381 0,5420

1,4638 -0,4883 0,3353 0,0369 9,0895 0,0000 0,2629 0,4077

1,4638 0,5117 0,5398 0,0352 15,3259 0,0000 0,4706 0,6089

17,4638 -0,4883 0,4113 0,0484 8,4997 0,0000 0,3163 0,5063

17,4638 0,5117 0,6158 0,0400 15,3898 0,0000 0,5372 0,6943

Data for visualizing the conditional effect of the focal predictor:

Paste text below into a SPSS syntax window and execute to produce plot.

DATA LIST FREE/

negemot age sex govact .

BEGIN DATA.

-1,8880 -19,5362 -0,4883 4,2003

0,1120 -19,5362 -0,4883 4,6714

1,7720 -19,5362 -0,4883 5,0624

-1,8880 -19,5362 0,5117 3,8000

0,1120 -19,5362 0,5117 4,6801

1,7720 -19,5362 0,5117 5,4106

-1,8880 1,4638 -0,4883 3,9840

0,1120 1,4638 -0,4883 4,6546

1,7720 1,4638 -0,4883 5,2112

-1,8880 1,4638 0,5117 3,5838

0,1120 1,4638 0,5117 4,6633

1,7720 1,4638 0,5117 5,5593

-1,8880 17,4638 -0,4883 3,8192

0,1120 17,4638 -0,4883 4,6418

1,7720 17,4638 -0,4883 5,3246

-1,8880 17,4638 0,5117 3,4190

0,1120 17,4638 0,5117 4,6505

1,7720 17,4638 0,5117 5,6727

END DATA.

GRAPH/SCATTERPLOT=

negemot WITH govact BY age /PANEL ROWVAR= sex .

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND ERRORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Level of confidence for all confidence intervals in output:

95,0000

W values in conditional tables are the 16th, 50th, and 84th percentiles.

NOTE: The following variables were mean centered prior to analysis:

age sex negemot

------ END MATRIX -----

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Model: 3**

**Y: govact**

**X: negemot**

**W: age**

**Z: sex**

**Covariates:**

**posemot ideology**

Sample

Size: 815

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

govact

Model Summary

R R-sq MSE F df1 df2 p

0,6451 0,4162 1,0926 63,7645 9,0000 805,0000 0,0000

Model

coeff se t p LLCI ULCI

constant 5,5179 0,1435 38,4386 0,0000 5,2361 5,7996

negemot 0,4158 0,0267 15,5974 0,0000 0,3635 0,4682

age -0,0009 0,0023 -0,3759 0,7071 -0,0055 0,0037

Int\_1 0,0042 0,0016 2,6114 0,0092 0,0010 0,0073

sex -0,0128 0,0752 -0,1707 0,8645 -0,1604 0,1347

Int\_2 0,2000 0,0500 3,9976 0,0001 0,1018 0,2983

Int\_3 -0,0016 0,0046 -0,3370 0,7362 -0,0106 0,0075

Int\_4 0,0067 0,0032 2,0961 0,0364 0,0004 0,0129

posemot -0,0206 0,0277 -0,7453 0,4563 -0,0749 0,0337

ideology -0,2055 0,0266 -7,7265 0,0000 -0,2577 -0,1533

Product terms key:

Int\_1 : negemot x age

Int\_2 : negemot x sex

Int\_3 : age x sex

Int\_4 : negemot x age x sex

Test(s) of highest order unconditional interaction(s):

R2-chng F df1 df2 p

X\*W\*Z 0,0032 4,3934 1,0000 805,0000 0,0364

----------

Focal predict: negemot (X)

Mod var: age (W)

Mod var: sex (Z)

Test of conditional X\*W interaction at value(s) of Z:

sex Effect F df1 df2 p

-0,4883 0,0009 0,1448 1,0000 805,0000 0,7036

0,5117 0,0076 13,1639 1,0000 805,0000 0,0003

Conditional effects of the focal predictor at values of the moderator(s):

age sex Effect se t p LLCI ULCI

-19,5362 -0,4883 0,3003 0,0542 5,5447 0,0000 0,1940 0,4066

-19,5362 0,5117 0,3699 0,0620 5,9678 0,0000 0,2482 0,4915

1,4638 -0,4883 0,3195 0,0376 8,4924 0,0000 0,2456 0,3933

1,4638 0,5117 0,5293 0,0355 14,9026 0,0000 0,4596 0,5990

17,4638 -0,4883 0,3341 0,0606 5,5094 0,0000 0,2151 0,4532

17,4638 0,5117 0,6508 0,0435 14,9737 0,0000 0,5655 0,7361

Data for visualizing the conditional effect of the focal predictor:

Paste text below into a SPSS syntax window and execute to produce plot.

DATA LIST FREE/

negemot age sex govact .

BEGIN DATA.

-1,8880 -19,5362 -0,4883 4,0561

0,1120 -19,5362 -0,4883 4,6566

1,7720 -19,5362 -0,4883 5,1551

-1,8880 -19,5362 0,5117 3,9422

0,1120 -19,5362 0,5117 4,6819

1,7720 -19,5362 0,5117 5,2959

-1,8880 1,4638 -0,4883 4,0172

0,1120 1,4638 -0,4883 4,6562

1,7720 1,4638 -0,4883 5,1865

-1,8880 1,4638 0,5117 3,6059

0,1120 1,4638 0,5117 4,6646

1,7720 1,4638 0,5117 5,5432

-1,8880 17,4638 -0,4883 3,9876

0,1120 17,4638 -0,4883 4,6558

1,7720 17,4638 -0,4883 5,2105

-1,8880 17,4638 0,5117 3,3498

0,1120 17,4638 0,5117 4,6513

1,7720 17,4638 0,5117 5,7317

END DATA.

GRAPH/SCATTERPLOT=

negemot WITH govact BY age /PANEL ROWVAR= sex .

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND ERRORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Level of confidence for all confidence intervals in output:

95,0000

W values in conditional tables are the 16th, 50th, and 84th percentiles.

NOTE: The following variables were mean centered prior to analysis:

age sex negemot

------ END MATRIX -----

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Model: 14**

**Y: perform**

**X: dysfunc**

**M: negtone**

**W: negexp**

Sample

Size: 60

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

negtone

Model Summary

R R-sq MSE F df1 df2 p

0,4384 0,1922 0,2268 13,7999 1,0000 58,0000 0,0005

Model

coeff se t p LLCI ULCI

constant 0,0257 0,0618 0,4159 0,6791 -0,0979 0,1493

dysfunc 0,6198 0,1668 3,7148 0,0005 0,2858 0,9537

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

perform

Model Summary

R R-sq MSE F df1 df2 p

0,5586 0,3120 0,2015 6,2350 4,0000 55,0000 0,0003

Model

coeff se t p LLCI ULCI

constant -0,0119 0,0585 -0,2029 0,8399 -0,1292 0,1054

dysfunc 0,3661 0,1778 2,0585 0,0443 0,0097 0,7224

negtone -0,4357 0,1306 -3,3377 0,0015 -0,6974 -0,1741

negexp -0,0192 0,1174 -0,1634 0,8708 -0,2545 0,2161

Int\_1 -0,5170 0,2409 -2,1458 0,0363 -0,9998 -0,0341

Product terms key:

Int\_1 : negtone x negexp

Test(s) of highest order unconditional interaction(s):

R2-chng F df1 df2 p

M\*W 0,0576 4,6043 1,0000 55,0000 0,0363

----------

Focal predict: negtone (M)

Mod var: negexp (W)

Conditional effects of the focal predictor at values of the moderator(s):

negexp Effect se t p LLCI ULCI

-0,5308 -0,1613 0,2088 -0,7729 0,4429 -0,5797 0,2570

-0,0600 -0,4047 0,1357 -2,9834 0,0042 -0,6766 -0,1329

0,6000 -0,7459 0,1626 -4,5879 0,0000 -1,0718 -0,4201

Data for visualizing the conditional effect of the focal predictor:

Paste text below into a SPSS syntax window and execute to produce plot.

DATA LIST FREE/

negtone negexp perform .

BEGIN DATA.

-0,4500 -0,5308 0,0836

-0,0350 -0,5308 0,0166

0,5224 -0,5308 -0,0733

-0,4500 -0,0600 0,1841

-0,0350 -0,0600 0,0161

0,5224 -0,0600 -0,2095

-0,4500 0,6000 0,3250

-0,0350 0,6000 0,0154

0,5224 0,6000 -0,4004

END DATA.

GRAPH/SCATTERPLOT=

negtone WITH perform BY negexp .

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* DIRECT AND INDIRECT EFFECTS OF X ON Y \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Direct effect of X on Y

Effect se t p LLCI ULCI

0,3661 0,1778 2,0585 0,0443 0,0097 0,7224

Conditional indirect effects of X on Y:

INDIRECT EFFECT:

dysfunc -> negtone -> perform

negexp Effect BootSE BootLLCI BootULCI

-0,5308 -0,1000 0,1498 -0,3667 0,2500

-0,0600 -0,2508 0,1177 -0,4997 -0,0359

0,6000 -0,4623 0,1689 -0,8103 -0,1525

Index of moderated mediation:

Index BootSE BootLLCI BootULCI

negexp -0,3204 0,1892 -0,7702 -0,0436

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND ERRORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Level of confidence for all confidence intervals in output:

95,0000

Number of bootstrap samples for percentile bootstrap confidence intervals:

5000

W values in conditional tables are the 16th, 50th, and 84th percentiles.

------ END MATRIX -----

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Model: 8**

**Y: liking**

**X: protest**

**M: respappr**

**W: sexism**

Sample

Size: 129

Coding of categorical X variable for analysis:

protest X1 X2

0,000 -0,667 0,000

1,000 0,333 -0,500

2,000 0,333 0,500

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

respappr

Model Summary

R R-sq MSE F df1 df2 p

0,5618 0,3156 1,2945 11,3424 5,0000 123,0000 0,0000

Model

coeff se t p LLCI ULCI

constant 4,6069 0,6726 6,8497 0,0000 3,2756 5,9382

X1 -2,9398 1,4498 -2,0277 0,0448 -5,8096 -0,0699

X2 1,6707 1,6203 1,0311 0,3045 -1,5366 4,8781

sexism 0,0416 0,1298 0,3202 0,7494 -0,2154 0,2986

Int\_1 0,8559 0,2814 3,0418 0,0029 0,2989 1,4128

Int\_2 -0,2439 0,3110 -0,7842 0,4344 -0,8595 0,3717

Product terms key:

Int\_1 : X1 x sexism

Int\_2 : X2 x sexism

Test(s) of highest order unconditional interaction(s):

R2-chng F df1 df2 p

X\*W 0,0537 4,8233 2,0000 123,0000 0,0096

----------

Focal predict: protest (X)

Mod var: sexism (W)

Conditional effects of the focal predictor at values of the moderator(s):

Moderator value(s):

sexism 4,2500

Effect se t p LLCI ULCI

X1 0,6976 0,3213 2,1714 0,0318 0,0617 1,3336

X2 0,6342 0,3719 1,7053 0,0907 -0,1020 1,3704

Test of equality of conditional means

F df1 df2 p

4,2751 2,0000 123,0000 0,0160

Estimated conditional means being compared:

protest respappr

0,0000 4,3184

1,0000 4,6990

2,0000 5,3332

----------

Moderator value(s):

sexism 5,1200

Effect se t p LLCI ULCI

X1 1,4422 0,2161 6,6736 0,0000 1,0145 1,8700

X2 0,4221 0,2449 1,7232 0,0874 -0,0628 0,9069

Test of equality of conditional means

F df1 df2 p

23,9623 2,0000 123,0000 0,0000

Estimated conditional means being compared:

protest respappr

0,0000 3,8582

1,0000 5,0894

2,0000 5,5115

----------

Moderator value(s):

sexism 5,8960

Effect se t p LLCI ULCI

X1 2,1064 0,3121 6,7487 0,0000 1,4886 2,7242

X2 0,2328 0,3371 0,6906 0,4911 -0,4345 0,9001

Test of equality of conditional means

F df1 df2 p

22,8591 2,0000 123,0000 0,0000

Estimated conditional means being compared:

protest respappr

0,0000 3,4477

1,0000 5,4377

2,0000 5,6705

Data for visualizing the conditional effect of the focal predictor:

Paste text below into a SPSS syntax window and execute to produce plot.

DATA LIST FREE/

protest sexism respappr .

BEGIN DATA.

0,0000 4,2500 4,3184

1,0000 4,2500 4,6990

2,0000 4,2500 5,3332

0,0000 5,1200 3,8582

1,0000 5,1200 5,0894

2,0000 5,1200 5,5115

0,0000 5,8960 3,4477

1,0000 5,8960 5,4377

2,0000 5,8960 5,6705

END DATA.

GRAPH/SCATTERPLOT=

sexism WITH respappr BY protest .

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OUTCOME VARIABLE:

liking

Model Summary

R R-sq MSE F df1 df2 p

0,5355 0,2868 0,8245 8,1767 6,0000 122,0000 0,0000

Model

coeff se t p LLCI ULCI

constant 3,4767 0,6309 5,5108 0,0000 2,2278 4,7256

X1 -2,7315 1,1763 -2,3222 0,0219 -5,0601 -0,4030

X2 0,0252 1,2987 0,0194 0,9846 -2,5458 2,5962

respappr 0,3668 0,0720 5,0969 0,0000 0,2243 0,5092

sexism 0,0719 0,1037 0,6940 0,4890 -0,1333 0,2771

Int\_1 0,5256 0,2328 2,2573 0,0258 0,0647 0,9866

Int\_2 -0,0340 0,2488 -0,1365 0,8917 -0,5265 0,4586

Product terms key:

Int\_1 : X1 x sexism

Int\_2 : X2 x sexism

Test(s) of highest order unconditional interaction(s):

R2-chng F df1 df2 p

X\*W 0,0298 2,5479 2,0000 122,0000 0,0824

----------

Focal predict: protest (X)

Mod var: sexism (W)

Conditional effects of the focal predictor at values of the moderator(s):

(These are also the relative conditional direct effects of X on Y)

Moderator value(s):

sexism 4,2500

Effect se t p LLCI ULCI

X1 -0,4977 0,2613 -1,9048 0,0592 -1,0149 0,0195

X2 -0,1192 0,3003 -0,3968 0,6922 -0,7137 0,4754

Test of equality of conditional means

F df1 df2 p

1,9642 2,0000 122,0000 0,1447

Estimated conditional means being compared:

protest liking

0,0000 5,8991

1,0000 5,4610

2,0000 5,3418

----------

Moderator value(s):

sexism 5,1200

Effect se t p LLCI ULCI

X1 -0,0404 0,2013 -0,2007 0,8413 -0,4389 0,3581

X2 -0,1487 0,1978 -0,7517 0,4537 -0,5403 0,2429

Test of equality of conditional means

F df1 df2 p

0,2942 2,0000 122,0000 0,7457

Estimated conditional means being compared:

protest liking

0,0000 5,6568

1,0000 5,6908

2,0000 5,5421

----------

Moderator value(s):

sexism 5,8960

Effect se t p LLCI ULCI

X1 0,3675 0,2916 1,2603 0,2100 -0,2097 0,9447

X2 -0,1751 0,2696 -0,6494 0,5173 -0,7087 0,3586

Test of equality of conditional means

F df1 df2 p

1,0646 2,0000 122,0000 0,3480

Estimated conditional means being compared:

protest liking

0,0000 5,4407

1,0000 5,8957

2,0000 5,7207

Data for visualizing the conditional effect of the focal predictor:

Paste text below into a SPSS syntax window and execute to produce plot.

DATA LIST FREE/

protest sexism liking .

BEGIN DATA.

0,0000 4,2500 5,8991

1,0000 4,2500 5,4610

2,0000 4,2500 5,3418

0,0000 5,1200 5,6568

1,0000 5,1200 5,6908

2,0000 5,1200 5,5421

0,0000 5,8960 5,4407

1,0000 5,8960 5,8957

2,0000 5,8960 5,7207

END DATA.

GRAPH/SCATTERPLOT=

sexism WITH liking BY protest .

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* DIRECT AND INDIRECT EFFECTS OF X ON Y \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Relative conditional direct effects of X on Y

sexism Effect se t p LLCI ULCI

X1 4,2500 -0,4977 0,2613 -1,9048 0,0592 -1,0149 0,0195

X1 5,1200 -0,0404 0,2013 -0,2007 0,8413 -0,4389 0,3581

X1 5,8960 0,3675 0,2916 1,2603 0,2100 -0,2097 0,9447

X2 4,2500 -0,1192 0,3003 -0,3968 0,6922 -0,7137 0,4754

X2 5,1200 -0,1487 0,1978 -0,7517 0,4537 -0,5403 0,2429

X2 5,8960 -0,1751 0,2696 -0,6494 0,5173 -0,7087 0,3586

Relative conditional indirect effects of X on Y:

INDIRECT EFFECT:

protest -> respappr -> liking

sexism Effect BootSE BootLLCI BootULCI

X1 4,2500 0,2559 0,1390 0,0040 0,5501

X1 5,1200 0,5290 0,1325 0,2820 0,7995

X1 5,8960 0,7726 0,2070 0,3841 1,1872

Index of moderated mediation:

Index BootSE BootLLCI BootULCI

sexism 0,3139 0,1450 0,0408 0,6182

sexism Effect BootSE BootLLCI BootULCI

X2 4,2500 0,2326 0,1381 -0,0048 0,5379

X2 5,1200 0,1548 0,0892 -0,0020 0,3532

X2 5,8960 0,0854 0,1123 -0,1179 0,3314

Index of moderated mediation:

Index BootSE BootLLCI BootULCI

sexism -0,0894 0,1067 -0,3112 0,1166

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND ERRORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Level of confidence for all confidence intervals in output:

95,0000

Number of bootstrap samples for percentile bootstrap confidence intervals:

5000

W values in conditional tables are the 16th, 50th, and 84th percentiles.

------ END MATRIX -----