REGRESSION ANALYSIS (PROCESS)

- Model 4, Confidence Intervals 95, Number of Bootstrap Samples 5000
- Bootstrap Inference for Model Coefficients
- Options: Standardized Effects / Show Total Effect Model

➡️ **Matriz**

Run MATRIX procedure:

***************** PROCESS Procedure for SPSS Version 4.2 ****************

    Written by Andrew F. Hayes, Ph.D.   www.afhayes.com
  Documentation available in Hayes (2022). www.guilford.com/p/hayes3

****
Model : 4
  Y : Y
  X : X
  M : M

Sample
Size: 186

****
OUTCOME VARIABLE:
 M

Model Summary

R	R-sq	MSE	F	df1	df2	p
,0169	,0003	,8982	,0528	1,0000	184,0000	,8185

Model

	coeff	se	t	p	LLCI	ULCI
constant	3,5912	,0993	36,1480	,0000	3,3952	3,7872
X	,0319	,1390	,2298	,8185	-,2423	,3062

Standardized coefficients

	coeff
X	,0338

****

OUTCOME VARIABLE:
 Y

Model Summary

R	R-sq	MSE	F	df1	df2	p
,1805	,0326	1,4284	3,0828	2,0000	183,0000	,0482

Model

	coeff	se	t	p	LLCI	ULCI
constant	2,3922	,3566	6,7083	,0000	1,6886	3,0958
X	,3988	,1753	2,2743	,0241	,0528	,7447
M	,0891	,0930	,9580	,3393	-,0944	,2725

Standardized coefficients

	coeff
X	,3299
M	,0697

*************************** TOTAL EFFECT MODEL ****************************
OUTCOME VARIABLE:
 Y

Model Summary
     R   R-sq   MSE   F   df1   df2   p
   ,1666   ,0277   1,4278   5,2502 1,0000 184,0000   ,0231

Model
          coeff   se   t   p   LLCI   ULCI
constant 2,7121   ,1253   21,6519   ,0000   2,4650   2,9592
X   ,4016   ,1753   2,2913   ,0231   ,0558   ,7474

Standardized coefficients
     coeff
X   ,3323

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

Total effect of X on Y
   Effect   se   t   p   LLCI   ULCI   c_ps
   ,4016   ,1753   2,2913   ,0231   ,0558   ,7474   ,3323

Direct effect of X on Y
   Effect   se   t   p   LLCI   ULCI   c'_ps
   ,3988   ,1753   2,2743   ,0241   ,0528   ,7447   ,3299

Indirect effect(s) of X on Y:
   Effect   BootSE   BootLLCI   BootULCI
M   ,0028   ,0175   -,0348   ,0415

Partially standardized indirect effect(s) of X on Y:
   Effect   BootSE   BootLLCI   BootULCI
M   ,0024   ,0145   -,0292   ,0345

*********** BOOTSTRAP RESULTS FOR REGRESSION MODEL PARAMETERS ************

OUTCOME VARIABLE:
 M

        Coeff   BootMean   BootSE   BootLLCI   BootULCI
constant 3,5912   3,5933   ,0916   3,4135   3,7702
X   ,0319   ,0265   ,1382   -,2511   ,2872

OUTCOME VARIABLE:
 Y

        Coeff   BootMean   BootSE   BootLLCI   BootULCI
constant 2,3922   2,3984   ,3298   1,7694   3,0653
X   ,3988   ,4024   ,1757   ,0604   ,7512
M   ,0891   ,0879   ,0886   -,0953   ,2549

*********************** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
   partially standardized form.

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

Regression Analysis (PROCESS) with Covariates

- Model 4, Confidence Intervals 95, Number of Bootstrap Samples 5000
- Bootstrap Inference for Model Coefficients
- Options: Standardized Effects and Show Total Effect Model

➡ **Matriz**

Run MATRIX procedure:

****************** PROCESS Procedure for SPSS Version 4.2 ****************

    Written by Andrew F. Hayes, Ph.D.   www.afhayes.com
    Documentation available in Hayes (2022). www.guilford.com/p/hayes3

****
Model : 4
  Y : Y
  X : X
  M : M

Covariates:
 AGE   GEND   EDUC   FAMI

Sample
Size: 186

****
OUTCOME VARIABLE:
 M

Model Summary

R	R-sq	MSE	F	df1	df2	p
,3264	,1066	,8205	4,2940	5,0000	180,0000	,0010

Model

	coeff	se	t	p	LLCI	ULCI
constant	2,7906	,5170	5,3977	,0000	1,7704	3,8107
X	,0149	,1355	,1102	,9123	-,2524	,2822
AGE	,0112	,0063	1,7694	,0785	-,0013	,0237
GEND	,0533	,1298	,4109	,6816	-,2028	,3095
EDUC	-,1583	,0940	-1,6848	,0938	-,3437	,0271
FAMI	,3175	,0936	3,3922	,0009	,1328	,5022

Standardized coefficients

	coeff
X	,0158
AGE	,1267
GEND	,0293
EDUC	-,1206
FAMI	,2452

****
OUTCOME VARIABLE:
 Y

Model Summary

R	R-sq	MSE	F	df1	df2	p
,1954	,0382	1,4519	1,1846	6,0000	179,0000	,3165

Model

	coeff	se	t	p	LLCI	ULCI
constant	2,6499	,7413	3,5748	,0005	1,1871	4,1127
X	,4102	,1802	2,2764	,0240	,0546	,7658
M	,1190	,0991	1,2005	,2315	-,0766	,3147
AGE	-,0027	,0085	-,3161	,7523	-,0194	,0141
GEND	-,0853	,1727	-,4937	,6221	-,4262	,2556
EDUC	,0289	,1260	,2296	,8186	-,2196	,2775
FAMI	-,0902	,1284	-,7020	,4836	-,3436	,1633

Standardized coefficients
```
        coeff
X     ,3394
M     ,0931
AGE   -,0237
GEND  -,0366
EDUC   ,0172
FAMI  -,0545
```

************************** TOTAL EFFECT MODEL *****************************
OUTCOME VARIABLE:
Y

Model Summary
```
     R     R-sq    MSE      F      df1     df2      p
   ,1745   ,0304  1,4554  1,1305  5,0000 180,0000   ,3459
```

Model
```
          coeff    se      t      p     LLCI    ULCI
constant  2,9821  ,6885  4,3309  ,0000  1,6234  4,3407
X          ,4120  ,1804  2,2835  ,0236   ,0560   ,7680
AGE       -,0014  ,0084  -,1603  ,8729  -,0180   ,0153
GEND      -,0789  ,1729  -,4566  ,6485  -,4201   ,2622
EDUC       ,0101  ,1251   ,0806  ,9359  -,2368   ,2570
FAMI      -,0524  ,1247  -,4201  ,6749  -,2983   ,1936
```

Standardized coefficients
```
       coeff
X     ,3409
AGE   -,0120
GEND  -,0339
EDUC   ,0060
FAMI  -,0316
```

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

Total effect of X on Y
```
  Effect    se      t      p     LLCI    ULCI    c_ps
   ,4120   ,1804  2,2835  ,0236   ,0560   ,7680   ,3409
```

Direct effect of X on Y
```
  Effect    se      t      p     LLCI    ULCI    c'_ps
   ,4102   ,1802  2,2764  ,0240   ,0546   ,7658   ,3394
```

Indirect effect(s) of X on Y:
```
   Effect  BootSE  BootLLCI  BootULCI
M   ,0018   ,0206   -,0412    ,0486
```

Partially standardized indirect effect(s) of X on Y:
```
   Effect  BootSE  BootLLCI  BootULCI
M   ,0015   ,0170   -,0343    ,0400
```

*********** BOOTSTRAP RESULTS FOR REGRESSION MODEL PARAMETERS ************

OUTCOME VARIABLE:
 M

```
          Coeff  BootMean  BootSE  BootLLCI  BootULCI
constant  2,7906  2,7982    ,5189   1,7890    3,8436
X          ,0149   ,0141   ,1343   -,2465     ,2762
AGE        ,0112   ,0112   ,0056    ,0002     ,0224
GEND       ,0533   ,0521   ,1264   -,1979     ,3090
EDUC      -,1583  -,1613   ,0843   -,3288     ,0050
FAMI       ,3175   ,3190   ,0929    ,1360     ,4979
```

OUTCOME VARIABLE:
 Y

	Coeff	BootMean	BootSE	BootLLCI	BootULCI
constant	2,6499	2,6809	,7423	1,2291	4,1383
X	,4102	,4080	,1762	,0656	,7576
M	,1190	,1183	,0929	-,0700	,2967
AGE	-,0027	-,0030	,0084	-,0196	,0132
GEND	-,0853	-,0844	,1803	-,4282	,2679
EDUC	,0289	,0244	,1330	-,2459	,2786
FAMI	-,0902	-,0900	,1212	-,3331	,1475

*********************** 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

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
      partially standardized form.

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