

Matrix

Run MATRIX procedure:

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

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

Model : 4
Y : nTSE
X : Group
M1 : SInd
M2 : SInter

Covariates:

Age Gender Edu MusExp

Sample

Size: 307

Coding of categorical X variable for analysis:

Group	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
MusExp	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213

Age .0222
Gender .1380
Edu .0614
MusExp -.0029

OUTCOME VARIABLE:

SInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
P	.2421	.0586	.3965	3.1139	6.0000	300.0000	.0056

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
MusExp	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
MusExp	-.0782

OUTCOME VARIABLE:

nTSE

Model Summary

	R	R-sq	MSE	F	df1	df2	
P	.3127	.0978	1.3220	4.0385	8.0000	298.0000	.0001

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.5864	.9186	-.6384	.5237	-2.3941	1.2213
X1	-.7408	.1904	-3.8901	.0001	-1.1156	-.3660
X2	-.2609	.1674	-1.5587	.1201	-.5904	.0685
SInd	.1233	.0942	1.3091	.1915	-.0621	.3087
SInter	.3181	.1054	3.0172	.0028	.1106	.5257
Age	.0430	.0243	1.7717	.0775	-.0048	.0907
Gender	-.0867	.1154	-.7513	.4530	-.3137	.1404

Edu	-.0779	.1022	-.7619	.4467	-.2791	.1233
MusExp	.0014	.0038	.3552	.7227	-.0062	.0089

Standardized coefficients

	coeff
X1	-.6202
X2	-.2184
SInd	.0735
SInter	.1711
Age	.1039
Gender	-.0440
Edu	-.0451
MusExp	.0240

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

OUTCOME VARIABLE:

nTSE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2560	.0655	1.3601	3.5073	6.0000	300.0000	.00
23							

Model

	coeff	se	t	p	LLCI	ULCI
constant	1.5514	.6445	2.4071	.0167	.2831	2.8198
X1	-.6639	.1916	-3.4644	.0006	-1.0410	-.2868
X2	-.1538	.1664	-.9241	.3562	-.4814	.1737
Age	.0380	.0245	1.5509	.1220	-.0102	.0863
Gender	-.0495	.1158	-.4272	.6696	-.2774	.1785
Edu	-.0966	.1031	-.9361	.3500	-.2995	.1064
MusExp	.0006	.0039	.1516	.8796	-.0070	.0082

Standardized coefficients

	coeff
X1	-.5558
X2	-.1288
Age	.0920
Gender	-.0251
Edu	-.0559
MusExp	.0103

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI
c_ps						
X1	-.6639	.1916	-3.4644	.0006	-1.0410	-.2868
5558						

X2	-.1538	.1664	-.9241	.3562	-.4814	.1737	-.1288
----	--------	-------	--------	-------	--------	-------	--------

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0384	6.1687	2.0000	300.0000	.0024

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.7408	.1904	-3.8901	.0001	-1.1156	-.3660	-.6202
X2	-.2609	.1674	-1.5587	.1201	-.5904	.0685	-.2184

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0459	7.5748	2.0000	298.0000	.0006

Relative indirect effects of X on Y

Group	->	SInd	->	nTSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0165	.0190	-.0132	.0619
X2	.0107	.0170	-.0207	.0502

Group	->	SInter	->	nTSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0604	.0374	.0027	.1492
X2	.0965	.0412	.0266	.1870

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

Group	->	SInd	->	nTSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0138	.0159	-.0110	.0517
X2	.0089	.0141	-.0177	.0409

Group	->	SInter	->	nTSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0506	.0311	.0023	.1237
X2	.0808	.0340	.0226	.1556

***** 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
n

partially standardized form.

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

Matrix

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M2 : SInter

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Age Gender Edu MusExp

Sample

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Model

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Standardized coefficients

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X1	.1874
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Gender	.1380
Edu	.0614
MusExp	-.0029

OUTCOME VARIABLE:

SInter

Model Summary

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p	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00

56

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
MusExp	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
MusExp	-.0782

OUTCOME VARIABLE:

nTSD

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2566	.0658	.3180	2.6252	8.0000	298.0000	.00

86

Model	coeff	se	t	p	LLCI	ULCI
constant	-.2641	.4505	-.5863	.5581	-1.1507	.6224
X1	-.3064	.0934	-3.2813	.0012	-.4902	-.1227
X2	-.1266	.0821	-1.5416	.1242	-.2881	.0350
SInd	.1208	.0462	2.6152	.0094	.0299	.2118
SInter	-.0423	.0517	-.8184	.4138	-.1441	.0594
Age	.0047	.0119	.3945	.6935	-.0187	.0281
Gender	.0090	.0566	.1585	.8741	-.1024	.1203
Edu	.0567	.0501	1.1314	.2588	-.0419	.1554
MusExp	.0002	.0019	.1252	.9005	-.0035	.0039

Standardized coefficients

	coeff
X1	-.5323
X2	-.2198
SInd	.1495
SInter	-.0472
Age	.0235
Gender	.0095
Edu	.0681
MusExp	.0086

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

OUTCOME VARIABLE:

nTSD

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2049	.0420	.3239	2.1923	6.0000	300.0000	.04
37							

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.0419	.3145	-.1331	.8942	-.6608	.5771
X1	-.2984	.0935	-3.1904	.0016	-.4824	-.1143
X2	-.1290	.0812	-1.5877	.1134	-.2888	.0309
Age	.0061	.0120	.5098	.6106	-.0175	.0297
Gender	.0263	.0565	.4644	.6427	-.0850	.1375
Edu	.0679	.0503	1.3488	.1784	-.0312	.1669
MusExp	.0003	.0019	.1714	.8640	-.0034	.0041

Standardized coefficients

	coeff
X1	-.5182
X2	-.2240
Age	.0306
Gender	.0277
Edu	.0815
MusExp	.0118

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.2984	.0935	-3.1904	.0016	-.4824	-.1143	-.5182
X2	-.1290	.0812	-1.5877	.1134	-.2888	.0309	-.2240

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0327	5.1278	2.0000	300.0000	.0065

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.3064	.0934	-3.2813	.0012	-.4902	-.1227	-.5323
X2	-.1266	.0821	-1.5416	.1242	-.2881	.0350	-.2198

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0338	5.3934	2.0000	298.0000	.0050

Relative indirect effects of X on Y

Group	->	SInd	->	nTSD
	Effect	BootSE	BootLLCI	BootULCI
X1	.0161	.0141	-.0081	.0476
X2	.0104	.0138	-.0171	.0394

Group	->	SInter	->	nTSD
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0080	.0109	-.0335	.0114
X2	-.0128	.0158	-.0466	.0174

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

Group	->	SInd	->	nTSD
	Effect	BootSE	BootLLCI	BootULCI
X1	.0280	.0244	-.0137	.0818
X2	.0181	.0238	-.0290	.0675

Group	->	SInter	->	nTSD
-------	----	--------	----	------

	Effect	BootSE	BootLLCI	BootULCI
X1	-.0140	.0191	-.0586	.0199
X2	-.0223	.0276	-.0824	.0299

***** 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
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partially standardized form.

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

Matrix

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M2 : SInter

Covariates:

Age Gender Edu MusExp

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Size: 307

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OUTCOME VARIABLE:

SInd

Model Summary

	R	R-sq	MSE	F	df1	df2
p						

.2004 .0401 .4967 2.0910 6.0000 300.0000 .05
42

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
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Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
MusExp	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
MusExp	-.0029

OUTCOME VARIABLE:

SInter

Model Summary

	R	R-sq	MSE	F	df1	df2	p
	.2421	.0586	.3965	3.1139	6.0000	300.0000	.0056

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
MusExp	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
MusExp	-.0782

OUTCOME VARIABLE:

nAEST

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.4054	.1643	.9798	7.3245	8.0000	298.0000	.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	1.4967	.7908	1.8926	.0594	-.0596	3.0530
X1	-.9157	.1640	-5.5851	.0000	-1.2383	-.5930
X2	-.4544	.1441	-3.1530	.0018	-.7381	-.1708
SInd	.3070	.0811	3.7850	.0002	.1474	.4666
SInter	-.0550	.0908	-.6054	.5454	-.2336	.1237
Age	-.0054	.0209	-.2564	.7978	-.0465	.0357
Gender	-.1018	.0993	-1.0247	.3064	-.2973	.0937
Edu	-.1522	.0880	-1.7289	.0849	-.3254	.0210
MusExp	.0143	.0033	4.3216	.0000	.0078	.0208

Standardized coefficients

	coeff
X1	-.8569
X2	-.4253
SInd	.2046
SInter	-.0330
Age	-.0145
Gender	-.0578
Edu	-.0985
MusExp	.2805

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

OUTCOME VARIABLE:

nAEST

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.3505	.1228	1.0216	7.0016	6.0000	300.0000	.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	2.3393	.5586	4.1879	.0000	1.2401	3.4386
X1	-.8851	.1661	-5.3293	.0000	-1.2120	-.5583
X2	-.4446	.1443	-3.0819	.0022	-.7284	-.1607
Age	-.0027	.0213	-.1272	.8989	-.0445	.0391
Gender	-.0550	.1004	-.5481	.5840	-.2526	.1425
Edu	-.1282	.0894	-1.4338	.1527	-.3041	.0477
MusExp	.0144	.0034	4.2715	.0000	.0077	.0210

Standardized coefficients

coeff

X1	-.8283
X2	-.4160
Age	-.0073
Gender	-.0312
Edu	-.0829
MusExp	.2824

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.8851	.1661	-5.3293	.0000	-1.2120	-.5583	-.8283
X2	-.4446	.1443	-3.0819	.0022	-.7284	-.1607	-.4160

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0856	14.6402	2.0000	300.0000	.0000

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.9157	.1640	-5.5851	.0000	-1.2383	-.5930	-.8569
X2	-.4544	.1441	-3.1530	.0018	-.7381	-.1708	-.4253

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0894	15.9400	2.0000	298.0000	.0000

Relative indirect effects of X on Y

Group	->	SInd	->	nAEST
	Effect	BootSE	BootLLCI	BootULCI
X1	.0410	.0338	-.0221	.1149
X2	.0265	.0334	-.0387	.0979

Group	->	SInter	->	nAEST
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0104	.0193	-.0553	.0234
X2	-.0167	.0288	-.0811	.0362

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

Group	->	SInd	->	nAEST
	Effect	BootSE	BootLLCI	BootULCI
X1	.0384	.0313	-.0209	.1066
X2	.0248	.0309	-.0365	.0892

Group	->	SInter	->	nAEST
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0098	.0182	-.0520	.0221
X2	-.0156	.0271	-.0756	.0340

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

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Number of bootstrap samples for percentile bootstrap confidence intervals:
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NOTE: Standardized coefficients for dichotomous or multicategorical X are in
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OUTCOME VARIABLE:

nPGE

Model Summary

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p	.2607	.0680	2.5453	2.7166	8.0000	298.0000	.0067

Model

	coeff	se	t	p	LLCI	ULCI
constant	1.7894	1.2746	1.4039	.1614	-.7190	4.2978
X1	-1.0380	.2642	-3.9282	.0001	-1.5580	-.5180
X2	-.4890	.2323	-2.1052	.0361	-.9462	-.0319
SInd	.2738	.1307	2.0944	.0371	.0165	.5310
SInter	-.0841	.1463	-.5745	.5660	-.3720	.2039
Age	-.0129	.0337	-.3822	.7026	-.0791	.0534
Gender	-.0327	.1601	-.2043	.8383	-.3478	.2824
Edu	.0464	.1418	.3269	.7440	-.2328	.3255
MusExp	.0126	.0053	2.3685	.0185	.0021	.0231

Standardized coefficients

	coeff
X1	-.6365
X2	-.2999
SInd	.1196
SInter	-.0331
Age	-.0228
Gender	-.0122
Edu	.0197
MusExp	.1623

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

OUTCOME VARIABLE:

nPGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2303	.0531	2.5688	2.8014	6.0000	300.0000	.0115

Model

	coeff	se	t	p	LLCI	ULCI
constant	2.3555	.8858	2.6593	.0083	.6124	4.0986
X1	-1.0174	.2634	-3.8631	.0001	-1.5357	-.4991

X2	-.4908	.2287	-2.1459	.0327	-.9410	-.0407
Age	-.0099	.0337	-.2932	.7696	-.0762	.0565
Gender	.0071	.1592	.0446	.9645	-.3062	.3204
Edu	.0707	.1417	.4987	.6184	-.2083	.3496
MusExp	.0128	.0053	2.3954	.0172	.0023	.0233

Standardized coefficients

	coeff
X1	-.6239
X2	-.3010
Age	-.0175
Gender	.0026
Edu	.0300
MusExp	.1646

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-1.0174	.2634	-3.8631	.0001	-1.5357	-.4991	-.6239
X2	-.4908	.2287	-2.1459	.0327	-.9410	-.0407	-.3010

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0482	7.6315	2.0000	300.0000	.0006

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-1.0380	.2642	-3.9282	.0001	-1.5580	-.5180	-.6365
X2	-.4890	.2323	-2.1052	.0361	-.9462	-.0319	-.2999

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0489	7.8202	2.0000	298.0000	.0005

Relative indirect effects of X on Y

Group	->	SInd	->	nPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0365	.0359	-.0172	.1212
X2	.0237	.0345	-.0404	.1022

Group	->	SInter	->	nPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0160	.0285	-.0750	.0449
X2	-.0255	.0430	-.1105	.0614

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

Group	->	SInd	->	nPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0224	.0218	-.0105	.0741
X2	.0145	.0211	-.0251	.0619

Group	->	SInter	->	nPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0098	.0176	-.0466	.0280
X2	-.0156	.0265	-.0683	.0381

***** 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
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

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

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

Model : 4
Y : nNGE
X : Group
M1 : SInd
M2 : SInter

Covariates:

Age Gender Edu MusExp

Sample
Size: 307

Coding of categorical X variable for analysis:

Group	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
MusExp	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
MusExp	-.0029

OUTCOME VARIABLE:

SInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00
56							

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801

Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
MusExp	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
MusExp	-.0782

OUTCOME VARIABLE:

nNGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
P	.2058	.0424	.5746	1.6481	8.0000	298.0000	.1108

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.3457	.6056	-.5709	.5685	-1.5375	.8460
X1	.0417	.1255	.3319	.7402	-.2054	.2887
X2	.1522	.1104	1.3794	.1688	-.0650	.3694
SInd	-.0873	.0621	-1.4060	.1608	-.2095	.0349
SInter	.0158	.0695	.2269	.8206	-.1210	.1526
Age	.0306	.0160	1.9149	.0565	-.0008	.0621
Gender	.1536	.0761	2.0199	.0443	.0040	.3033
Edu	-.0111	.0674	-.1650	.8691	-.1437	.1215
MusExp	-.0023	.0025	-.8995	.3691	-.0072	.0027

Standardized coefficients

	coeff
X1	.0545
X2	.1992
SInd	-.0814
SInter	.0133
Age	.1157
Gender	.1220
Edu	-.0101
MusExp	-.0625

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

OUTCOME VARIABLE:

nNGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
P	.1892	.0358	.5746	1.8568	6.0000	300.0000	.08

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.5847	.4189	-1.3956	.1639	-1.4091	.2398
X1	.0330	.1246	.2650	.7912	-.2121	.2781
X2	.1495	.1082	1.3817	.1681	-.0634	.3624
Age	.0299	.0159	1.8733	.0620	-.0015	.0612
Gender	.1403	.0753	1.8640	.0633	-.0078	.2885
Edu	-.0180	.0670	-.2678	.7890	-.1499	.1140
MusExp	-.0023	.0025	-.9129	.3620	-.0073	.0027

Standardized coefficients

	coeff
X1	.0432
X2	.1956
Age	.1129
Gender	.1114
Edu	-.0162
MusExp	-.0633

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	.0330	.1246	.2650	.7912	-.2121	.2781	.
0432							
X2	.1495	.1082	1.3817	.1681	-.0634	.3624	.
1956							

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0065	1.0141	2.0000	300.0000	.3640

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	.0417	.1255	.3319	.7402	-.2054	.2887	.
0545							
X2	.1522	.1104	1.3794	.1688	-.0650	.3694	.
1992							

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0064	.9936	2.0000	298.0000	.3714

Relative indirect effects of X on Y

Group	->	SInd	->	nNGE
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0117	.0162	-.0529	.0128
X2	-.0075	.0148	-.0454	.0156

Group	->	SInter	->	nNGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0030	.0154	-.0273	.0370
X2	.0048	.0229	-.0448	.0483

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

Group	->	SInd	->	nNGE
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0153	.0199	-.0614	.0175
X2	-.0099	.0180	-.0539	.0198

Group	->	SInter	->	nNGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0039	.0204	-.0328	.0519
X2	.0063	.0300	-.0540	.0680

***** 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
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

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

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

Model : 4
Y : iTSE
X : Group
M1 : SInd
M2 : SInter

Covariates:

Age Gender Edu MusExp

Sample

Size: 307

Coding of categorical X variable for analysis:

Group	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
42	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
MusExp	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
MusExp	-.0029

OUTCOME VARIABLE:

SInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
MusExp	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
MusExp	-.0782

OUTCOME VARIABLE:

itSE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.4601	.2117	5.6169	10.0047	8.0000	298.0000	.00

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.0955	1.8935	1.6348	.1031	-.6308	6.8218
X1	-2.4431	.3925	-6.2238	.0000	-3.2156	-1.6706
X2	.0770	.3451	.2233	.8235	-.6020	.7561
SInd	.2766	.1942	1.4242	.1554	-.1056	.6587
SInter	.5015	.2174	2.3074	.0217	.0738	.9293
Age	-.0537	.0500	-1.0740	.2837	-.1521	.0447
Gender	-.0707	.2378	-.2973	.7664	-.5387	.3973
Edu	-.1711	.2107	-.8119	.4175	-.5858	.2436
MusExp	.0090	.0079	1.1380	.2560	-.0066	.0245

Standardized coefficients

	coeff
X1	-.9274
X2	.0292
SInd	.0748
SInter	.1223
Age	-.0589

Gender -.0163
 Edu -.0449
 MusExp .0717

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

OUTCOME VARIABLE:

itSE

Model Summary

	R	R-sq	MSE	F	df1	df2	
P	.4389	.1926	5.7146	11.9291	6.0000	300.0000	.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	6.7689	1.3211	5.1235	.0000	4.1690	9.3687
X1	-2.3109	.3928	-5.8829	.0000	-3.0840	-1.5379
X2	.2530	.3412	.7416	.4589	-.4184	.9244
Age	-.0610	.0503	-1.2140	.2257	-.1600	.0379
Gender	.0012	.2374	.0052	.9958	-.4660	.4685
Edu	-.1953	.2114	-.9238	.3563	-.6114	.2207
MusExp	.0078	.0080	.9764	.3297	-.0079	.0234

Standardized coefficients

	coeff
X1	-.8773
X2	.0960
Age	-.0669
Gender	.0003
Edu	-.0513
MusExp	.0619

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-2.3109	.3928	-5.8829	.0000	-3.0840	-1.5379	-.8773
X2	.2530	.3412	.7416	.4589	-.4184	.9244	.0960

Omnibus test of total effect of X on Y

	R2-chng	F	df1	df2	p
	.1266	23.5271	2.0000	300.0000	.0000

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							

X1	-2.4431	.3925	-6.2238	.0000	-3.2156	-1.6706	-.
9274							
X2	.0770	.3451	.2233	.8235	-.6020	.7561	.
0292							

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.1299	24.5442	2.0000	298.0000	.0000

Relative indirect effects of X on Y

Group	->	SInd	->	iTSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0369	.0424	-.0220	.1414
X2	.0239	.0384	-.0372	.1203

Group	->	SInter	->	iTSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0953	.0693	-.0020	.2614
X2	.1521	.0884	.0117	.3496

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

Group	->	SInd	->	iTSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0140	.0161	-.0084	.0535
X2	.0091	.0146	-.0142	.0457

Group	->	SInter	->	iTSE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0362	.0263	-.0008	.0997
X2	.0577	.0336	.0045	.1343

***** 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
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

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

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

Model : 4
Y : iTSD
X : Group
M1 : SInd
M2 : SInter

Covariates:

Age Gender Edu MusExp

Sample

Size: 307

Coding of categorical X variable for analysis:

Group	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05

42

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
MusExp	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380

Edu .0614
MusExp -.0029

OUTCOME VARIABLE:
SInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00
56							

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
MusExp	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
MusExp	-.0782

OUTCOME VARIABLE:
iTSD

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2602	.0677	5.6471	2.7051	8.0000	298.0000	.00
69							

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.9636	1.8986	-.5076	.6121	-4.6999	2.7726
X1	-1.4650	.3936	-3.7221	.0002	-2.2396	-.6904
X2	-.4456	.3460	-1.2879	.1988	-1.1265	.2353
SInd	.3314	.1947	1.7020	.0898	-.0518	.7146
SInter	-.1218	.2179	-.5590	.5766	-.5507	.3071
Age	.0177	.0501	.3539	.7236	-.0809	.1164
Gender	.2031	.2385	.8518	.3950	-.2662	.6724
Edu	.2342	.2113	1.1085	.2685	-.1816	.6500
MusExp	-.0005	.0079	-.0692	.9449	-.0161	.0150

Standardized coefficients

	coeff
X1	-.6032
X2	-.1835
SInd	.0972
SInter	-.0322
Age	.0211
Gender	.0508
Edu	.0667
MusExp	-.0047

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

OUTCOME VARIABLE:

itSD

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2399	.0575	5.6706	3.0524	6.0000	300.0000	.00
65							

Model

	coeff	se	t	p	LLCI	ULCI
constant	-.3846	1.3160	-.2922	.7703	-2.9744	2.2052
X1	-1.4439	.3913	-3.6900	.0003	-2.2140	-.6739
X2	-.4539	.3399	-1.3356	.1827	-1.1227	.2149
Age	.0217	.0501	.4335	.6650	-.0768	.1203
Gender	.2502	.2365	1.0579	.2910	-.2153	.7157
Edu	.2653	.2106	1.2598	.2087	-.1491	.6798
MusExp	-.0003	.0079	-.0366	.9709	-.0159	.0153

Standardized coefficients

	coeff
X1	-.5945
X2	-.1869
Age	.0258
Gender	.0625
Edu	.0755
MusExp	-.0025

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-1.4439	.3913	-3.6900	.0003	-2.2140	-.6739	-.5945
X2	-.4539	.3399	-1.3356	.1827	-1.1227	.2149	-.1869

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0429	6.8345	2.0000	300.0000	.0013

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-1.4650	.3936	-3.7221	.0002	-2.2396	-.6904	-.6032
X2	-.4456	.3460	-1.2879	.1988	-1.1265	.2353	-.1835

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0437	6.9881	2.0000	298.0000	.0011

Relative indirect effects of X on Y

Group	->	SInd	->	iTSD
		Effect		BootSE
				BootLLCI
				BootULCI
X1		.0442		.0451
X2		.0286		.0415

Group	->	SInter	->	iTSD
		Effect		BootSE
				BootLLCI
				BootULCI
X1		-.0231		.0496
X2		-.0369		.0747

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

Group	->	SInd	->	iTSD
		Effect		BootSE
				BootLLCI
				BootULCI
X1		.0182		.0187
X2		.0118		.0171

Group	->	SInter	->	iTSD
		Effect		BootSE
				BootLLCI
				BootULCI
X1		-.0095		.0204
X2		-.0152		.0308

***** 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 -----

Matrix

Run MATRIX procedure:

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

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

Model : 4
Y : iAEST
X : Group
M1 : SInd
M2 : SInter

Covariates:

Age Gender Edu MusExp

Sample

Size: 307

Coding of categorical X variable for analysis:

Group	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p							
	.2004	.0401	.4967	2.0910	6.0000	300.0000	.0542

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859

MusExp	-.0001	.0023	-.0425	.9661	-.0047	.0045
--------	--------	-------	--------	-------	--------	-------

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
MusExp	-.0029

OUTCOME VARIABLE:

SInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00
56							

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
MusExp	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
MusExp	-.0782

OUTCOME VARIABLE:

iAEST

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.4450	.1980	5.6190	9.1976	8.0000	298.0000	.00
00							

Model

	coeff	se	t	p	LLCI	ULCI
constant	6.4710	1.8938	3.4169	.0007	2.7440	10.1979

X1	-2.6647	.3926	-6.7870	.0000	-3.4373	-1.8920
X2	-1.1688	.3451	-3.3866	.0008	-1.8481	-.4896
SInd	.5042	.1942	2.5957	.0099	.1219	.8864
SInter	-.1909	.2174	-.8783	.3805	-.6188	.2369
Age	-.0249	.0500	-.4989	.6182	-.1234	.0735
Gender	-.2401	.2379	-1.0095	.3136	-.7082	.2280
Edu	-.2955	.2108	-1.4023	.1619	-.7103	.1192
MusExp	.0082	.0079	1.0314	.3032	-.0074	.0237

Standardized coefficients

coeff

X1	-1.0201
X2	-.4475
SInd	.1375
SInter	-.0470
Age	-.0276
Gender	-.0558
Edu	-.0782
MusExp	.0656

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

OUTCOME VARIABLE:

iAEST

Model Summary

	R	R-sq	MSE	F	df1	df2	
P							
.00	.4214	.1775	5.7240	10.7939	6.0000	300.0000	.00

Model

	coeff	se	t	p	LLCI	ULCI
constant	7.3223	1.3222	5.5379	.0000	4.7203	9.9243
X1	-2.6337	.3931	-6.6990	.0000	-3.4073	-1.8600
X2	-1.1832	.3414	-3.4651	.0006	-1.8551	-.5112
Age	-.0188	.0503	-.3740	.7087	-.1178	.0802
Gender	-.1688	.2376	-.7103	.4781	-.6364	.2989
Edu	-.2478	.2116	-1.1710	.2425	-.6642	.1686
MusExp	.0086	.0080	1.0752	.2832	-.0071	.0242

Standardized coefficients

coeff

X1	-1.0082
X2	-.4530
Age	-.0208
Gender	-.0392
Edu	-.0656
MusExp	.0688

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-2.6337	.3931	-6.6990	.0000	-3.4073	-1.8600	-1.
0082							
X2	-1.1832	.3414	-3.4651	.0006	-1.8551	-.5112	-.
4530							

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.1245	22.7034	2.0000	300.0000	.0000

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-2.6647	.3926	-6.7870	.0000	-3.4373	-1.8920	-1.
0201							
X2	-1.1688	.3451	-3.3866	.0008	-1.8481	-.4896	-.
4475							

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.1247	23.1637	2.0000	298.0000	.0000

Relative indirect effects of X on Y

Group	->	SInd	->	iAEST
	Effect	BootSE	BootLLCI	BootULCI
X1	.0673	.0583	-.0344	.1983
X2	.0436	.0596	-.0651	.1716

Group	->	SInter	->	iAEST
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0363	.0493	-.1456	.0505
X2	-.0579	.0692	-.2002	.0879

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

Group	->	SInd	->	iAEST
	Effect	BootSE	BootLLCI	BootULCI
X1	.0258	.0224	-.0130	.0765
X2	.0167	.0228	-.0253	.0661

Group	->	SInter	->	iAEST
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0139	.0189	-.0554	.0192
X2	-.0222	.0265	-.0755	.0338

***** 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
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

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

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

Model : 4
Y : iPGE
X : Group
M1 : SInd
M2 : SInter

Covariates:
Age Gender Edu MusExp

Sample
Size: 307

Coding of categorical X variable for analysis:

Group	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:
SInd

Model Summary						
	R	R-sq	MSE	F	df1	df2
p	.2004	.0401	.4967	2.0910	6.0000	300.0000
42						.05

Model	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
MusExp	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
MusExp	-.0029

 OUTCOME VARIABLE:
 SInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2421	.0586	.3965	3.1139	6.0000	300.0000	.0056

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
MusExp	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511
Edu	-.0895
MusExp	-.0782

 OUTCOME VARIABLE:
 iPGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.4630	.2144	4.8196	10.1661	8.0000	298.0000	.00

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.1325	1.7540	2.9262	.0037	1.6808	8.5842
X1	-2.7582	.3636	-7.5853	.0000	-3.4737	-2.0426
X2	-.0995	.3196	-.3113	.7558	-.7286	.5295
SInd	.0612	.1799	.3400	.7341	-.2928	.4152
SInter	-.0288	.2013	-.1429	.8865	-.4250	.3675
Age	-.0387	.0463	-.8360	.4038	-.1299	.0524
Gender	.1052	.2203	.4775	.6334	-.3284	.5387
Edu	.0803	.1952	.4116	.6809	-.3038	.4645
MusExp	.0153	.0073	2.0899	.0375	.0009	.0297

Standardized coefficients

	coeff
X1	-1.1284
X2	-.0407
SInd	.0178
SInter	-.0076
Age	-.0458
Gender	.0261
Edu	.0227
MusExp	.1315

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

OUTCOME VARIABLE:

ipGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.4626	.2140	4.7897	13.6163	6.0000	300.0000	.00

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2061	1.2095	4.3043	.0000	2.8259	7.5863
X1	-2.7555	.3596	-7.6620	.0000	-3.4632	-2.0477
X2	-.1030	.3123	-.3296	.7419	-.7176	.5117
Age	-.0379	.0460	-.8230	.4112	-.1285	.0527
Gender	.1135	.2174	.5223	.6019	-.3143	.5413
Edu	.0866	.1936	.4475	.6549	-.2943	.4675
MusExp	.0154	.0073	2.1096	.0357	.0010	.0297

Standardized coefficients

	coeff
X1	-1.1273
X2	-.0421
Age	-.0448

Gender .0282
 Edu .0245
 MusExp .1320

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-2.7555	.3596	-7.6620	.0000	-3.4632	-2.0477	-1.1273
X2	-.1030	.3123	-.3296	.7419	-.7176	.5117	-.0421

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.1801	34.3715	2.0000	300.0000	.0000

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-2.7582	.3636	-7.5853	.0000	-3.4737	-2.0426	-1.1284
X2	-.0995	.3196	-.3113	.7558	-.7286	.5295	-.0407

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.1800	34.1311	2.0000	298.0000	.0000

Relative indirect effects of X on Y

Group	->	SInd	->	iPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0082	.0296	-.0474	.0768
X2	.0053	.0239	-.0416	.0606

Group	->	SInter	->	iPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0055	.0422	-.0889	.0873
X2	-.0087	.0630	-.1317	.1227

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

Group	->	SInd	->	iPGE
	Effect	BootSE	BootLLCI	BootULCI

X1	.0033	.0121	-.0198	.0318
X2	.0022	.0098	-.0171	.0246

Group	->	SInter	->	iPGE
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0022	.0173	-.0364	.0353
X2	-.0036	.0258	-.0527	.0506

***** 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
n
partially standardized form.

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

Matrix

Run MATRIX procedure:

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

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

Model : 4
Y : iNGE
X : Group
M1 : SInd
M2 : SInter

Covariates:
Age Gender Edu MusExp

Sample
Size: 307

Coding of categorical X variable for analysis:

Group	X1	X2
.000	.000	.000
1.000	1.000	.000
2.000	.000	1.000

OUTCOME VARIABLE:

SInd

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2004	.0401	.4967	2.0910	6.0000	300.0000	.05
42							

Model

	coeff	se	t	p	LLCI	ULCI
constant	3.6916	.3895	9.4778	.0000	2.9251	4.4581
X1	.1335	.1158	1.1527	.2500	-.0944	.3614
X2	.0864	.1006	.8591	.3910	-.1115	.2843
Age	.0055	.0148	.3696	.7119	-.0237	.0346
Gender	.1620	.0700	2.3141	.0213	.0242	.2998
Edu	.0633	.0623	1.0148	.3110	-.0594	.1859
MusExp	-.0001	.0023	-.0425	.9661	-.0047	.0045

Standardized coefficients

	coeff
X1	.1874
X2	.1213
Age	.0222
Gender	.1380
Edu	.0614
MusExp	-.0029

OUTCOME VARIABLE:

SInter

Model Summary

	R	R-sq	MSE	F	df1	df2	
p	.2421	.0586	.3965	3.1139	6.0000	300.0000	.00
56							

Model

	coeff	se	t	p	LLCI	ULCI
constant	5.2886	.3480	15.1974	.0000	4.6038	5.9734
X1	.1899	.1035	1.8358	.0674	-.0137	.3936
X2	.3032	.0899	3.3741	.0008	.1264	.4801
Age	-.0176	.0132	-1.3325	.1837	-.0437	.0084
Gender	.0541	.0625	.8655	.3874	-.0689	.1772
Edu	-.0832	.0557	-1.4941	.1362	-.1928	.0264
MusExp	-.0024	.0021	-1.1421	.2543	-.0065	.0017

Standardized coefficients

	coeff
X1	.2956
X2	.4719
Age	-.0793
Gender	.0511

Edu -.0895
MusExp -.0782

OUTCOME VARIABLE:
iNGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
P							
	.3262	.1064	4.8651	4.4360	8.0000	298.0000	.0000

Model

	coeff	se	t	p	LLCI	ULCI
constant	-2.3096	1.7622	-1.3106	.1910	-5.7775	1.1584
X1	-.4511	.3653	-1.2347	.2179	-1.1700	.2679
X2	.7599	.3212	2.3661	.0186	.1279	1.3919
SInd	-.2701	.1807	-1.4947	.1361	-.6258	.0855
SInter	.3606	.2023	1.7824	.0757	-.0375	.7586
Age	.1249	.0465	2.6844	.0077	.0333	.2165
Gender	.3562	.2213	1.6093	.1086	-.0794	.7918
Edu	-.1039	.1961	-.5298	.5966	-.4898	.2820
MusExp	-.0063	.0074	-.8591	.3910	-.0208	.0082

Standardized coefficients

	coeff
X1	-.1959
X2	.3300
SInd	-.0836
SInter	.1006
Age	.1567
Gender	.0939
Edu	-.0312
MusExp	-.0576

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

OUTCOME VARIABLE:
iNGE

Model Summary

	R	R-sq	MSE	F	df1	df2	
P							
	.2997	.0898	4.9223	4.9358	6.0000	300.0000	.0001

Model

	coeff	se	t	p	LLCI	ULCI
constant	-1.4000	1.2261	-1.1418	.2545	-3.8129	1.0129
X1	-.4186	.3646	-1.1483	.2518	-1.1361	.2988
X2	.8459	.3166	2.6715	.0080	.2228	1.4690
Age	.1171	.0467	2.5091	.0126	.0253	.2089
Gender	.3320	.2204	1.5064	.1330	-.1017	.7656

Edu	-.1510	.1962	-.7695	.4422	-.5371	.2351
MusExp	-.0072	.0074	-.9691	.3333	-.0217	.0074

Standardized coefficients

	coeff
X1	-.1818
X2	.3674
Age	.1469
Gender	.0875
Edu	-.0453
MusExp	-.0653

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

Relative total effects of X on Y

	Effect	se	t	p	LLCI	ULCI	
c_ps							
X1	-.4186	.3646	-1.1483	.2518	-1.1361	.2988	-.1818
X2	.8459	.3166	2.6715	.0080	.2228	1.4690	.3674

Omnibus test of total effect of X on Y

R2-chng	F	df1	df2	p
.0405	6.6822	2.0000	300.0000	.0014

Relative direct effects of X on Y

	Effect	se	t	p	LLCI	ULCI	c
'_ps							
X1	-.4511	.3653	-1.2347	.2179	-1.1700	.2679	-.1959
X2	.7599	.3212	2.3661	.0186	.1279	1.3919	.3300

Omnibus test of direct effect of X on Y:

R2-chng	F	df1	df2	p
.0355	5.9174	2.0000	298.0000	.0030

Relative indirect effects of X on Y

Group	->	SInd	->	iNGE
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0361	.0417	-.1358	.0304
X2	-.0233	.0375	-.1159	.0395

Group	->	SInter	->	iNGE
	Effect	BootSE	BootLLCI	BootULCI

X1	.0685	.0546	-.0111	.2014
X2	.1093	.0716	-.0150	.2706

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

Group	->	SInd	->	iNGE
	Effect	BootSE	BootLLCI	BootULCI
X1	-.0157	.0180	-.0577	.0131
X2	-.0101	.0162	-.0497	.0175

Group	->	SInter	->	iNGE
	Effect	BootSE	BootLLCI	BootULCI
X1	.0297	.0236	-.0050	.0864
X2	.0475	.0307	-.0064	.1162

***** 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
n
partially standardized form.

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