Second Stage

2022-07-15

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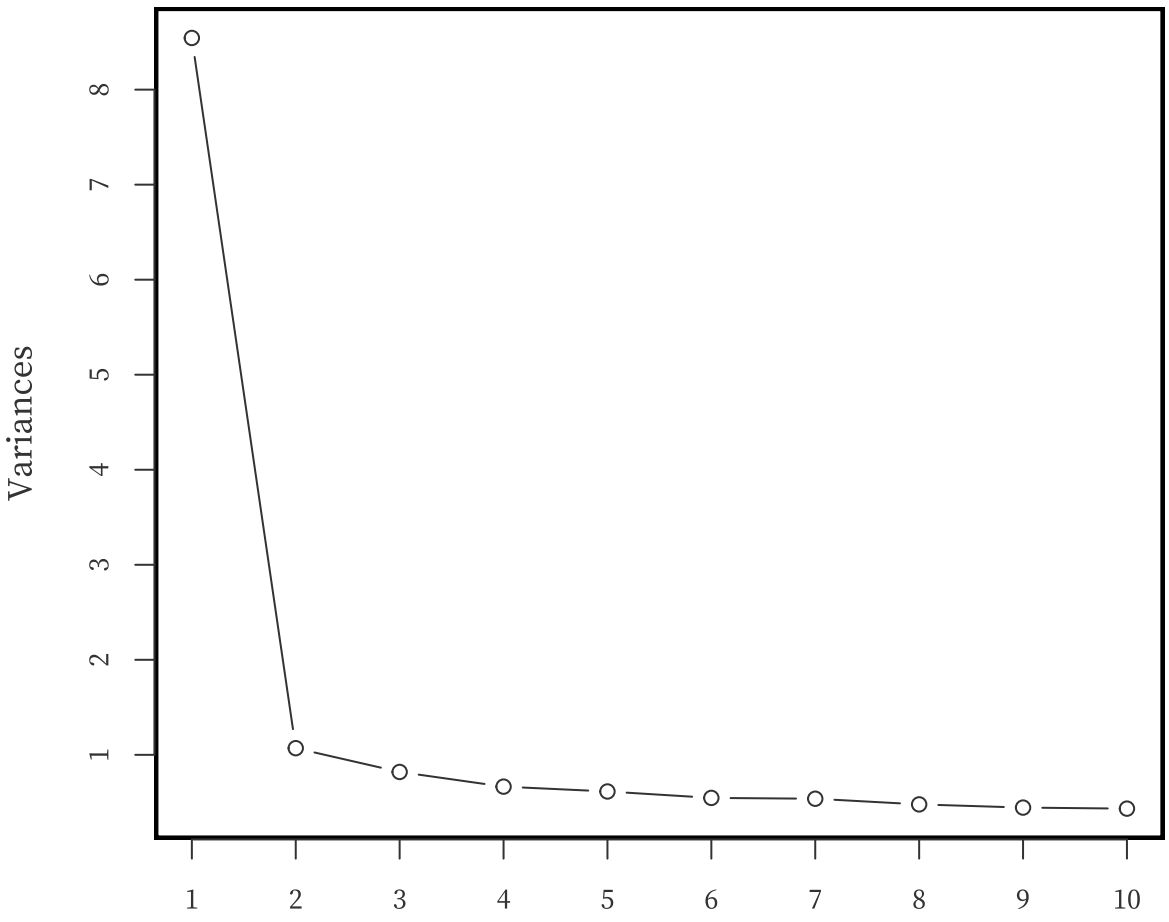
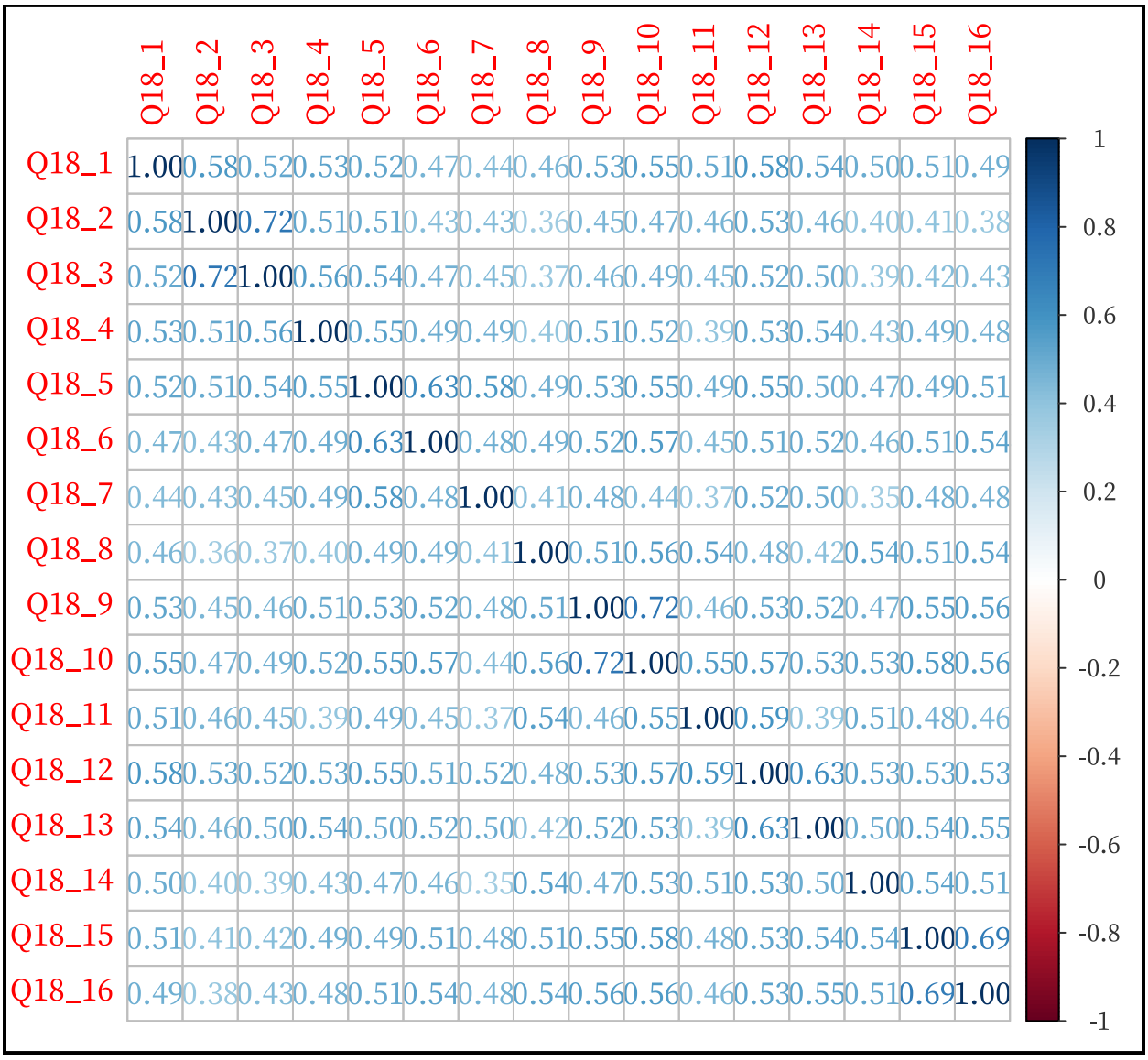
0.1 PCA of Prevention Behaviors

The figure suggests that prevention behaviors cannot be well categorized automatically.



0.1.1 Correlations between Prevention Behaviors

The figure suggests the strong correlations exist between prevention behavior items.



0.2 Manual Categorization of Prevention Behaviors

- Select Q18_8 Cover mouth when cough; Q18_15 Help family members and friends; Q18_16 Care about elders as other-oriented/social-oriented prevention behaviors
- Select the rest variables as self-oriented prevention behaviors

```
##
## ==========================================================================
##                                                Dependent variable:
##                                        -------------------------------------------
##                                            mean_selfnew           mean_social
##                                                 OLS                    OLS
```

```
##                                          (1)                  (2)
## ---------------------------------------------------------------------------
## empathy                             0.55*** (0.03)       0.52*** (0.03)
## age                                 -0.003 (0.002)       -0.01** (0.003)
## gender                              0.15*** (0.05)        0.13** (0.06)
## education                           -0.06*** (0.03)      -0.08*** (0.03)
## income                               0.03** (0.01)        0.03** (0.01)
## Constant                            3.26*** (0.20)       3.66*** (0.22)
## ---------------------------------------------------------------------------
## Observations                            1,175                1,175
## R2                                      0.22                 0.18
## Adjusted R2                             0.22                 0.17
## Residual Std. Error (df = 1169)         0.93                 1.01
## F Statistic (df = 5; 1169)           65.38***             50.04***
## ===========================================================================
## Note:                                          *p<0.1; **p<0.05; ***p<0.01
##                                  Empathy on self/social oriented prevention
```

0.3 Relationship between social support, resilience and life satisfaction

```
##
## ===================================================================
##                                  Dependent variable:
##                      -------------------------------------------------
##                                   life satisfaction
##                                          OLS
##                                (1)                      (2)
## -------------------------------------------------------------------
## mean_support             0.24*** (0.03)           0.24*** (0.03)
## mean_resilience          0.38*** (0.03)           0.38*** (0.03)
## age                                                0.003 (0.002)
## gender                                             0.001 (0.06)
## education                                         0.08*** (0.03)
## income                                             -0.001 (0.01)
## Constant                 0.49*** (0.17)             0.15 (0.23)
## -------------------------------------------------------------------
## Observations                  1,175                    1,175
## R2                            0.19                     0.20
## Adjusted R2                   0.19                     0.19
## Residual Std. Error     0.98 (df = 1172)         0.98 (df = 1168)
## F Statistic         138.70*** (df = 2; 1172)  48.27*** (df = 6; 1168)
## ===================================================================
## Note:                                     *p<0.1; **p<0.05; ***p<0.01
##                      Social support, resilience and life satisfaction
```

0.4 Relationships between demographic variables, media use, information-source assessment and depression

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac at gmail.com % Date and time: , 7 18, 2022 - 21 06 30 % Requires LaTeX packages: dcolumn

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac at gmail.com % Date and time: , 7 18, 2022 - 21 06 30 % Requires LaTeX packages: dcolumn

Table 1:

	Dependent variable:			
	Depression			
	OLS			
	(1)	(2)	(3)	(4)
age	-0.12^{***} (0.02)			
gender		-0.24 (0.38)		
education			0.70^{***} (0.16)	
income				-0.02 (0.07)
Constant	22.27^{***} (0.70)	17.60^{***} (0.60)	14.81^{***} (0.59)	17.34^{***} (0.47)
Observations	1,175	1,175	1,175	1,175
R^2	0.05	0.0004	0.02	0.0000
Adjusted R^2	0.04	-0.001	0.01	-0.001
Residual Std. Error (df = 1173)	6.29	6.44	6.39	6.44
F Statistic (df = 1; 1173)	55.74^{***}	0.41	18.72^{***}	0.06
Note:				*p<0.1; **p<0.05; ***p<0.01
				Demographics separately on Depression

Table 2:

	Dependent variable:
	Depression
	OLS
age	-0.11^{***} (0.02)
gender	-0.33 (0.37)
education	0.69^{***} (0.17)
income	-0.10 (0.07)
Constant	20.84^{***} (1.17)
Observations	1,175
R^2	0.06
Adjusted R^2	0.06
Residual Std. Error	6.25 (df = 1170)
F Statistic	18.74^{***} (df = 4; 1170)
Note:	*p<0.1; **p<0.05; ***p<0.01
	All demographicson and Depression

0.5 Mediation effects of media use

0.5.1 Mediation of phone use

No significant mediation effect.

lhs	op	rhs	label	est	se	z	pvalue	ci.lower	ci.up
depre	~	Use_phone	a1	0.1656868	0.0861880	1.9223875	0.0545570	-0.0032386	0.3346
depre	~	age	b1	-0.1123904	0.0156417	-7.1852855	0.0000000	-0.1430476	-0.0817
depre	~	gender	b2	-0.3534973	0.3682663	-0.9598958	0.3371077	-1.0752859	0.3682
depre	~	education	b3	0.7195381	0.1692842	4.2504733	0.0000213	0.3877471	1.0513
depre	~	income	b4	-0.0953983	0.0744256	-1.2817947	0.1999147	-0.2412698	0.0504
Use_phone	~	age	c1	-0.0082539	0.0052890	-1.5605919	0.1186201	-0.0186201	0.0021
Use_phone	~	gender	c2	0.1488661	0.1245754	1.1949875	0.2320919	-0.0952973	0.3930
Use_phone	~	education	c3	-0.1974557	0.0570092	-3.4635770	0.0005330	-0.3091917	-0.0857
Use_phone	~	income	c4	-0.0198818	0.0251850	-0.7894315	0.4298599	-0.0692434	0.0294
age	~~	gender		-0.5741979	0.1718196	-3.3418647	0.0008322	-0.9109582	-0.2374
gender	~~	education		-0.0684943	0.0168010	-4.0768073	0.0000457	-0.1014236	-0.0355
education	~~	income		0.8920235	0.0894667	9.9704499	0.0000000	0.7166720	1.0673
age	~~	education		-0.7834819	0.3918295	-1.9995481	0.0455491	-1.5514537	-0.0155
age	~~	income		0.7855176	0.8777524	0.8949193	0.3708302	-0.9348456	2.5058
gender	~~	income		-0.0369688	0.0374359	-0.9875214	0.3233871	-0.1103418	0.0364
depre	~~	depre		38.7693390	1.5995008	24.2383993	0.0000000	35.6343750	41.9043
Use_phone	~~	Use_phone		4.4417758	0.1832537	24.2383993	0.0000000	4.0826052	4.8009
age	~~	age		137.4465565	5.6706119	24.2383993	0.0000000	126.3323613	148.5607
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.2297644	0.2701
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.2022609	1.4138
income	~~	income		6.5819103	0.2715489	24.2383993	0.0000000	6.0496842	7.1141
depre	~1			19.4099242	1.3824380	14.0403578	0.0000000	16.7003955	22.1194
Use_phone	~1			8.6481860	0.3940880	21.9448095	0.0000000	7.8757877	9.4205
age	~1			43.0331915	0.3420172	125.8217026	0.0000000	42.3628500	43.7035
gender	~1			1.5046809	0.0145859	103.1602432	0.0000000	1.4760931	1.5332
education	~1			3.4510638	0.0333649	103.4339103	0.0000000	3.3856698	3.5164
income	~1			5.8978723	0.0748440	78.8021965	0.0000000	5.7511808	6.0445
Indirect1	:=	a1*c1	Indirect1	-0.0013676	0.0011287	-1.2116129	0.2256606	-0.0035798	0.0008
Indirect2	:=	a1*c2	Indirect2	0.0246651	0.0243033	1.0148878	0.3101593	-0.0229685	0.0722
Indirect3	:=	a1*c3	Indirect3	-0.0327158	0.0194639	-1.6808442	0.0927932	-0.0708644	0.0054
Indirect4	:=	a1*c4	Indirect4	-0.0032942	0.0045110	-0.7302559	0.4652338	-0.0121355	0.0055

0.5.2 Mediation of social media chat

Social media chat has mediation effect between age and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.low
depre	~	Socialmedia_chat	a1	0.2878930	0.0773356	3.7226436	0.0001971	0.13631
depre	~	age	b1	-0.1026537	0.0158420	-6.4798467	0.0000000	-0.13370
depre	~	gender	b2	-0.3370920	0.3664730	-0.9198277	0.3576628	-1.05536
depre	~	education	b3	0.7155241	0.1678823	4.2620570	0.0000203	0.38648
depre	~	income	b4	-0.1118599	0.0741716	-1.5081240	0.1315228	-0.25723
Socialmedia_chat	~	age	c1	-0.0385709	0.0058691	-6.5718364	0.0000000	-0.05007
Socialmedia_chat	~	gender	c2	0.0286895	0.1382406	0.2075334	0.8355933	-0.24225
Socialmedia_chat	~	education	c3	-0.0996963	0.0632627	-1.5759087	0.1150469	-0.22368
Socialmedia_chat	~	income	c4	0.0457372	0.0279476	1.6365338	0.1017279	-0.00903
age	~~	gender		-0.5741979	0.1718196	-3.3418645	0.0008322	-0.91095
gender	~~	education		-0.0684943	0.0168010	-4.0768075	0.0000457	-0.10142
education	~~	income		0.8920235	0.0894667	9.9704499	0.0000000	0.71667
age	~~	education		-0.7834821	0.3918295	-1.9995485	0.0455490	-1.55145
age	~~	income		0.7855176	0.8777524	0.8949193	0.3708302	-0.93484
gender	~~	income		-0.0369688	0.0374359	-0.9875218	0.3233869	-0.11034
depre	~~	depre		38.4379329	1.5858280	24.2383993	0.0000000	35.32976
Socialmedia_chat	~~	Socialmedia_chat		5.4696930	0.2256623	24.2383993	0.0000000	5.02740
age	~~	age		137.4465580	5.6706120	24.2383993	0.0000000	126.33236
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.22976
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.20226
income	~~	income		6.5819103	0.2715489	24.2383993	0.0000000	6.04968
depre	~1			18.3662288	1.3366238	13.7407614	0.0000000	15.74649
Socialmedia_chat	~1			8.6024551	0.4373170	19.6709823	0.0000000	7.74532
age	~1			43.0331915	0.3420172	125.8217018	0.0000000	42.36285
gender	~1			1.5046809	0.0145859	103.1602425	0.0000000	1.47609
education	~1			3.4510638	0.0333649	103.4339102	0.0000000	3.38566
income	~1			5.8978723	0.0748440	78.8021960	0.0000000	5.75118
Indirect1	:=	a1*c1	Indirect1	-0.0111043	0.0034282	-3.2390778	0.0011992	-0.01782
Indirect2	:=	a1*c2	Indirect2	0.0082595	0.0398603	0.2072116	0.8358446	-0.06986
Indirect3	:=	a1*c3	Indirect3	-0.0287019	0.0197776	-1.4512282	0.1467163	-0.06746
Indirect4	:=	a1*c4	Indirect4	0.0131674	0.0087891	1.4981560	0.1340927	-0.00405

0.5.3 Mediation of Social media Post

Social media post has mediation effects between age, education and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.low
depre	~	Socialmedia_post	a1	0.4638986	0.0654258	7.0904579	0.0000000	0.33566
depre	~	age	b1	-0.0986212	0.0154736	-6.3734966	0.0000000	-0.12894
depre	~	gender	b2	-0.3725326	0.3610319	-1.0318548	0.3021401	-1.08014
depre	~	education	b3	0.5725357	0.1659787	3.4494528	0.0005617	0.24722
depre	~	income	b4	-0.1004289	0.0729783	-1.3761477	0.1687759	-0.24346
Socialmedia_post	~	age	c1	-0.0326294	0.0068336	-4.7748206	0.0000018	-0.04602
Socialmedia_post	~	gender	c2	0.0942008	0.1609588	0.5852479	0.5583810	-0.22127
Socialmedia_post	~	education	c3	0.2463610	0.0736592	3.3446045	0.0008240	0.10199
Socialmedia_post	~	income	c4	0.0037431	0.0325405	0.1150282	0.9084228	-0.06003
age	~~	gender		-0.5741979	0.1718196	-3.3418646	0.0008322	-0.91095
gender	~~	education		-0.0684943	0.0168010	-4.0768071	0.0000457	-0.10142
education	~~	income		0.8920236	0.0894667	9.9704501	0.0000000	0.71667
age	~~	education		-0.7834821	0.3918295	-1.9995485	0.0455490	-1.55145
age	~~	income		0.7855177	0.8777524	0.8949194	0.3708302	-0.93484
gender	~~	income		-0.0369688	0.0374359	-0.9875215	0.3233871	-0.11034
depre	~~	depre		37.2955166	1.5386955	24.2383993	0.0000000	34.27972
Socialmedia_post	~~	Socialmedia_post		7.4151726	0.3059267	24.2383993	0.0000000	6.81556
age	~~	age		137.4465585	5.6706120	24.2383993	0.0000000	126.33236
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.22976
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.20226
income	~~	income		6.5819105	0.2715489	24.2383993	0.0000000	6.04968
depre	~1			17.9791242	1.2112577	14.8433514	0.0000000	15.60510
Socialmedia_post	~1			6.1731000	0.5091849	12.1234937	0.0000000	5.17511
age	~1			43.0331915	0.3420172	125.8217016	0.0000000	42.36285
gender	~1			1.5046809	0.0145859	103.1602427	0.0000000	1.47609
education	~1			3.4510638	0.0333649	103.4339105	0.0000000	3.38566
income	~1			5.8978723	0.0748440	78.8021949	0.0000000	5.75118
Indirect1	:=	a1*c1	Indirect1	-0.0151367	0.0038219	-3.9605124	0.0000748	-0.02262
Indirect2	:=	a1*c2	Indirect2	0.0436996	0.0749225	0.5832644	0.5597153	-0.10314
Indirect3	:=	a1*c3	Indirect3	0.1142865	0.0377812	3.0249579	0.0024867	0.04023
Indirect4	:=	a1*c4	Indirect4	0.0017364	0.0150975	0.1150130	0.9084348	-0.02785

0.5.4 Mediation of Social media News

Social media use has mediation effects between age and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.lo
depre	~	Socialmedia_news	a1	0.2366485	0.0805294	2.9386603	0.0032963	0.0788
depre	~	age	b1	-0.1068099	0.0157711	-6.7724886	0.0000000	-0.1377
depre	~	gender	b2	-0.3573735	0.3674022	-0.9727037	0.3307006	-1.0774
depre	~	education	b3	0.6889754	0.1680764	4.0991810	0.0000415	0.3595
depre	~	income	b4	-0.1061265	0.0742935	-1.4284765	0.1531548	-0.2517
Socialmedia_news	~	age	c1	-0.0293601	0.0056488	-5.1976092	0.0000002	-0.0404
Socialmedia_news	~	gender	c2	0.1206042	0.1330506	0.9064538	0.3646957	-0.1401
Socialmedia_news	~	education	c3	-0.0090988	0.0608877	-0.1494355	0.8812100	-0.1284
Socialmedia_news	~	income	c4	0.0314139	0.0268984	1.1678728	0.2428581	-0.0213
age	~~	gender		-0.5741979	0.1718196	-3.3418646	0.0008322	-0.9109
gender	~~	education		-0.0684943	0.0168010	-4.0768075	0.0000457	-0.1014
education	~~	income		0.8920235	0.0894667	9.9704499	0.0000000	0.7166
age	~~	education		-0.7834821	0.3918295	-1.9995485	0.0455490	-1.5514
age	~~	income		0.7855175	0.8777524	0.8949192	0.3708303	-0.9348
gender	~~	income		-0.0369688	0.0374359	-0.9875217	0.3233870	-0.1103
depre	~~	depre		38.6075268	1.5928249	24.2383993	0.0000000	35.4856
Socialmedia_news	~~	Socialmedia_news		5.0667042	0.2090363	24.2383993	0.0000000	4.6570
age	~~	age		137.4465580	5.6706120	24.2383993	0.0000000	126.3323
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.2297
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.2022
income	~~	income		6.5819104	0.2715489	24.2383993	0.0000000	6.0496
depre	~1			19.0355196	1.3145851	14.4802493	0.0000000	16.4589
Socialmedia_news	~1			7.6370502	0.4208988	18.1446244	0.0000000	6.8121
age	~1			43.0331915	0.3420172	125.8217018	0.0000000	42.3628
gender	~1			1.5046809	0.0145859	103.1602426	0.0000000	1.4760
education	~1			3.4510638	0.0333649	103.4339101	0.0000000	3.3856
income	~1			5.8978723	0.0748440	78.8021959	0.0000000	5.7511
Indirect1	:=	a1*c1	Indirect1	-0.0069480	0.0027161	-2.5581027	0.0105245	-0.0122
Indirect2	:=	a1*c2	Indirect2	0.0285408	0.0329501	0.8661828	0.3863899	-0.0360
Indirect3	:=	a1*c3	Indirect3	-0.0021532	0.0144276	-0.1492426	0.8813622	-0.0304
Indirect4	:=	a1*c4	Indirect4	0.0074340	0.0068497	1.0853067	0.2777858	-0.0059

0.5.5 Mediation of Online Search

Online search has mediation effect between age and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.lower	
depre	~	Online_search	a1	0.2922850	0.0906214	3.2253411	0.0012582	0.1146703	
depre	~	age	b1	-0.1031357	0.0159255	-6.4761164	0.0000000	-0.1343492	-
depre	~	gender	b2	-0.2768624	0.3673536	-0.7536675	0.4510489	-0.9968622	
depre	~	education	b3	0.7057627	0.1680521	4.1996665	0.0000267	0.3763867	
depre	~	income	b4	-0.1070834	0.0742407	-1.4423822	0.1491946	-0.2525924	
Online_search	~	age	c1	-0.0363422	0.0050160	-7.2453236	0.0000000	-0.0461733	-
Online_search	~	gender	c2	-0.1778049	0.1181452	-1.5049687	0.1323321	-0.4093653	
Online_search	~	education	c3	-0.0648019	0.0540666	-1.1985582	0.2306998	-0.1707704	
Online_search	~	income	c4	0.0287081	0.0238850	1.2019309	0.2293903	-0.0181056	
age	~~	gender		-0.5741979	0.1718196	-3.3418645	0.0008322	-0.9109582	-
gender	~~	education		-0.0684943	0.0168010	-4.0768074	0.0000457	-0.1014236	-
education	~~	income		0.8920235	0.0894667	9.9704499	0.0000000	0.7166720	
age	~~	education		-0.7834821	0.3918295	-1.9995485	0.0455490	-1.5514538	-
age	~~	income		0.7855174	0.8777524	0.8949191	0.3708303	-0.9348457	
gender	~~	income		-0.0369688	0.0374359	-0.9875215	0.3233870	-0.1103418	
depre	~~	depre		38.5499750	1.5904505	24.2383993	0.0000000	35.4327492	4
Online_search	~~	Online_search		3.9950704	0.1648240	24.2383993	0.0000000	3.6720213	
age	~~	age		137.4465578	5.6706120	24.2383993	0.0000000	126.3323625	14
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.2297644	
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.2022609	
income	~~	income		6.5819103	0.2715489	24.2383993	0.0000000	6.0496843	
depre	~1			18.2595651	1.4104489	12.9459250	0.0000000	15.4951362	2
Online_search	~1			8.8381201	0.3737465	23.6473668	0.0000000	8.1055905	
age	~1			43.0331915	0.3420172	125.8217019	0.0000000	42.3628500	4
gender	~1			1.5046809	0.0145859	103.1602428	0.0000000	1.4760931	
education	~1			3.4510638	0.0333649	103.4339100	0.0000000	3.3856698	
income	~1			5.8978723	0.0748440	78.8021960	0.0000000	5.7511808	
Indirect1	:=	a1*c1	Indirect1	-0.0106223	0.0036050	-2.9465690	0.0032132	-0.0176879	-
Indirect2	:=	a1*c2	Indirect2	-0.0519697	0.0381063	-1.3638081	0.1726280	-0.1266567	
Indirect3	:=	a1*c3	Indirect3	-0.0189406	0.0168587	-1.1234934	0.2612280	-0.0519831	
Indirect4	:=	a1*c4	Indirect4	0.0083910	0.0074502	1.1262699	0.2600513	-0.0062112	

0.5.6 Mediation of Email

Email has mediation effect between age and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.lower	ci.upper
depre	~	Email	a1	0.4262942	0.0769337	5.5410564	0.0000000	0.2755068	0.5770815
depre	~	age	b1	-0.0962604	0.0157690	-6.1044200	0.0000000	-0.1271671	-0.0653538
depre	~	gender	b2	-0.3890846	0.3640597	-1.0687385	0.2851875	-1.1026286	0.3244593
depre	~	education	b3	0.6967956	0.1665393	4.1839711	0.0000286	0.3703846	1.0232066
depre	~	income	b4	-0.1096311	0.0735943	-1.4896693	0.1363112	-0.2538733	0.0346110
Email	~	age	c1	-0.0410456	0.0058584	-7.0062643	0.0000000	-0.0525279	-0.0295633
Email	~	gender	c2	0.1413376	0.1379886	1.0242707	0.3057074	-0.1291150	0.4117902
Email	~	education	c3	-0.0233954	0.0631474	-0.3704884	0.7110186	-0.1471620	0.1003713
Email	~	income	c4	0.0256599	0.0278966	0.9198211	0.3576662	-0.0290165	0.0803363
age	~~	gender		-0.5741979	0.1718196	-3.3418647	0.0008322	-0.9109582	-0.2374377
gender	~~	education		-0.0684943	0.0168010	-4.0768073	0.0000457	-0.1014236	-0.0355650
education	~~	income		0.8920235	0.0894667	9.9704500	0.0000000	0.7166720	1.0673751
age	~~	education		-0.7834821	0.3918295	-1.9995484	0.0455490	-1.5514538	-0.0155103
age	~~	income		0.7855175	0.8777524	0.8949192	0.3708303	-0.9348457	2.5058806
gender	~~	income		-0.0369688	0.0374359	-0.9875215	0.3233870	-0.1103418	0.0364043
depre	~~	depre		37.9009071	1.5636720	24.2383993	0.0000000	34.8361663	40.9656480
Email	~~	Email		5.4497689	0.2248403	24.2383993	0.0000000	5.0090901	5.8904478
age	~~	age		137.4465587	5.6706120	24.2383993	0.0000000	126.3323634	148.5607541
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.2297644	0.2701918
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.2022609	1.4138007
income	~~	income		6.5819104	0.2715489	24.2383993	0.0000000	6.0496843	7.1141364
depre	~1			17.3796420	1.3098939	13.2679772	0.0000000	14.8122972	19.9469868
Email	~1			8.1239073	0.4365198	18.6106279	0.0000000	7.2683443	8.9794704
age	~1			43.0331915	0.3420172	125.8217015	0.0000000	42.3628500	43.7035330
gender	~1			1.5046809	0.0145859	103.1602426	0.0000000	1.4760931	1.5332680
education	~1			3.4510638	0.0333649	103.4339099	0.0000000	3.3856698	3.5164579
income	~1			5.8978723	0.0748440	78.8021958	0.0000000	5.7511808	6.0445639
Indirect1	:=	a1*c1	Indirect1	-0.0174975	0.0040260	-4.3461229	0.0000139	-0.0253883	-0.0096067
Indirect2	:=	a1*c2	Indirect2	0.0602514	0.0598203	1.0072072	0.3138352	-0.0569942	0.1774970
Indirect3	:=	a1*c3	Indirect3	-0.0099733	0.0269795	-0.3696630	0.7116336	-0.0628521	0.0429055
Indirect4	:=	a1*c4	Indirect4	0.0109387	0.0120549	0.9074037	0.3641933	-0.0126885	0.0345659

0.5.7 Mediation of media share

Media share has mediation effects between age, education and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.lower	c
depre	~	Media_share	a1	0.5667589	0.0657720	8.6170200	0.0000000	0.4378481	0.6
depre	~	age	b1	-0.0917952	0.0153904	-5.9644498	0.0000000	-0.1219599	-0.0
depre	~	gender	b2	-0.3058706	0.3575081	-0.8555627	0.3922397	-1.0065737	0.3
depre	~	education	b3	0.5937684	0.1639572	3.6214850	0.0002929	0.2724183	0.9
depre	~	income	b4	-0.1063586	0.0722796	-1.4714890	0.1411589	-0.2480240	0.0
Media_share	~	age	c1	-0.0387514	0.0067321	-5.7562119	0.0000000	-0.0519461	-0.0
Media_share	~	gender	c2	-0.0405146	0.1585673	-0.2555043	0.7983336	-0.3513009	0.2
Media_share	~	education	c3	0.1641859	0.0725648	2.2626094	0.0236598	0.0219614	0.3
Media_share	~	income	c4	0.0135263	0.0320570	0.4219442	0.6730657	-0.0493043	0.0
age	~~	gender		-0.5741979	0.1718196	-3.3418645	0.0008322	-0.9109582	-0.2
gender	~~	education		-0.0684943	0.0168010	-4.0768076	0.0000457	-0.1014237	-0.0
education	~~	income		0.8920235	0.0894667	9.9704499	0.0000000	0.7166720	1.0
age	~~	education		-0.7834823	0.3918295	-1.9995489	0.0455490	-1.5514540	-0.0
age	~~	income		0.7855171	0.8777524	0.8949188	0.3708305	-0.9348460	2.5
gender	~~	income		-0.0369688	0.0374359	-0.9875219	0.3233869	-0.1103418	0.0
depre	~~	depre		36.5796583	1.5091615	24.2383993	0.0000000	33.6217561	39.5
Media_share	~~	Media_share		7.1964668	0.2969035	24.2383993	0.0000000	6.6145465	7.7
age	~~	age		137.4465582	5.6706120	24.2383993	0.0000000	126.3323629	148.5
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.2297644	0.2
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.2022609	1.4
income	~~	income		6.5819104	0.2715489	24.2383993	0.0000000	6.0496844	7.1
depre	~1			17.0807201	1.2122733	14.0898259	0.0000000	14.7047081	19.4
Media_share	~1			6.6379120	0.5016197	13.2329581	0.0000000	5.6547556	7.6
age	~1			43.0331915	0.3420172	125.8217017	0.0000000	42.3628500	43.7
gender	~1			1.5046809	0.0145859	103.1602427	0.0000000	1.4760931	1.5
education	~1			3.4510638	0.0333649	103.4339100	0.0000000	3.3856698	3.5
income	~1			5.8978723	0.0748440	78.8021957	0.0000000	5.7511808	6.0
Indirect1	:=	a1*c1	Indirect1	-0.0219627	0.0045885	-4.7864993	0.0000017	-0.0309560	-0.0
Indirect2	:=	a1*c2	Indirect2	-0.0229620	0.0899089	-0.2553920	0.7984203	-0.1991803	0.1
Indirect3	:=	a1*c3	Indirect3	0.0930538	0.0425209	2.1884258	0.0286386	0.0097144	0.1
Indirect4	:=	a1*c4	Indirect4	0.0076661	0.0181903	0.4214393	0.6734343	-0.0279863	0.0

0.5.8 Mediation of Short message

Short message has mediation effect between age and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.lower
depre	~	Short_message	a1	0.3532772	0.0838115	4.2151383	0.0000250	0.1890096
depre	~	age	b1	-0.1070757	0.0156138	-6.8577611	0.0000000	-0.1376782
depre	~	gender	b2	-0.3584408	0.3659327	-0.9795266	0.3273199	-1.0756557
depre	~	education	b3	0.7221551	0.1676399	4.3077770	0.0000165	0.3935870
depre	~	income	b4	-0.1080086	0.0739987	-1.4596025	0.1443994	-0.2530434
Short_message	~	age	c1	-0.0189150	0.0054067	-3.4984154	0.0004680	-0.0295121
Short_message	~	gender	c2	0.0838104	0.1273499	0.6581112	0.5104667	-0.1657908
Short_message	~	education	c3	-0.1000147	0.0582788	-1.7161410	0.0861362	-0.2142392
Short_message	~	income	c4	0.0263707	0.0257459	1.0242685	0.3057085	-0.0240903
age	~~	gender		-0.5741979	0.1718196	-3.3418645	0.0008322	-0.9109582
gender	~~	education		-0.0684943	0.0168010	-4.0768074	0.0000457	-0.1014236
education	~~	income		0.8920235	0.0894667	9.9704499	0.0000000	0.7166720
age	~~	education		-0.7834821	0.3918295	-1.9995485	0.0455490	-1.5514538
age	~~	income		0.7855174	0.8777524	0.8949191	0.3708303	-0.9348457
gender	~~	income		-0.0369688	0.0374359	-0.9875217	0.3233870	-0.1103418
depre	~~	depre		38.3119526	1.5806305	24.2383993	0.0000000	35.2139738
Short_message	~~	Short_message		4.6418261	0.1915071	24.2383993	0.0000000	4.2664790
age	~~	age		137.4465575	5.6706120	24.2383993	0.0000000	126.3323622
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.2297644
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.2022609
income	~~	income		6.5819103	0.2715489	24.2383993	0.0000000	6.0496843
depre	~1			18.1422581	1.3228898	13.7141112	0.0000000	15.5494417
Short_message	~1			7.6443013	0.4028648	18.9748553	0.0000000	6.8547008
age	~1			43.0331915	0.3420172	125.8217021	0.0000000	42.3628500
gender	~1			1.5046809	0.0145859	103.1602426	0.0000000	1.4760931
education	~1			3.4510638	0.0333649	103.4339102	0.0000000	3.3856698
income	~1			5.8978723	0.0748440	78.8021962	0.0000000	5.7511808
Indirect1	:=	a1*c1	Indirect1	-0.0066823	0.0024823	-2.6920119	0.0071022	-0.0115474
Indirect2	:=	a1*c2	Indirect2	0.0296083	0.0455348	0.6502337	0.5155413	-0.0596384
Indirect3	:=	a1*c3	Indirect3	-0.0353329	0.0222296	-1.5894549	0.1119577	-0.0789021
Indirect4	:=	a1*c4	Indirect4	0.0093162	0.0093601	0.9953046	0.3195881	-0.0090293

0.5.9 Mediation of Digital Game

Digital game has mediation effect between age and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.lower	
depre	~	Digital_game	a1	0.5357636	0.0645341	8.3020282	0.0000000	0.4092792	0
depre	~	age	b1	-0.0793627	0.0157645	-5.0342672	0.0000005	-0.1102606	-0
depre	~	gender	b2	-0.2525153	0.3583811	-0.7045999	0.4810593	-0.9549293	0
depre	~	education	b3	0.7055183	0.1639667	4.3028146	0.0000169	0.3841495	1
depre	~	income	b4	-0.0934699	0.0724315	-1.2904593	0.1968912	-0.2354330	0
Digital_game	~	age	c1	-0.0641986	0.0068759	-9.3367079	0.0000000	-0.0776751	-0
Digital_game	~	gender	c2	-0.1424466	0.1619550	-0.8795444	0.3791062	-0.4598725	0
Digital_game	~	education	c3	-0.0348960	0.0741151	-0.4708352	0.6377584	-0.1801589	0
Digital_game	~	income	c4	-0.0097479	0.0327418	-0.2977199	0.7659169	-0.0739207	0
age	~~	gender		-0.5741979	0.1718196	-3.3418645	0.0008322	-0.9109582	-0
gender	~~	education		-0.0684943	0.0168010	-4.0768071	0.0000457	-0.1014236	-0
education	~~	income		0.8920235	0.0894667	9.9704497	0.0000000	0.7166720	1
age	~~	education		-0.7834822	0.3918295	-1.9995488	0.0455490	-1.5514539	-0
age	~~	income		0.7855173	0.8777524	0.8949190	0.3708304	-0.9348458	2
gender	~~	income		-0.0369687	0.0374359	-0.9875212	0.3233872	-0.1103418	0
depre	~~	depre		36.7363767	1.5156272	24.2383993	0.0000000	33.7658020	39
Digital_game	~~	Digital_game		7.5072425	0.3097252	24.2383993	0.0000000	6.9001923	8
age	~~	age		137.4465581	5.6706120	24.2383993	0.0000000	126.3323628	148
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.2297644	0
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.2022609	1
income	~~	income		6.5819103	0.2715489	24.2383993	0.0000000	6.0496843	7
depre	~1			16.2014897	1.2637340	12.8203323	0.0000000	13.7246166	18
Digital_game	~1			8.6630111	0.5123363	16.9088379	0.0000000	7.6588505	9
age	~1			43.0331915	0.3420172	125.8217018	0.0000000	42.3628500	43
gender	~1			1.5046809	0.0145859	103.1602429	0.0000000	1.4760931	1
education	~1			3.4510638	0.0333649	103.4339099	0.0000000	3.3856698	3
income	~1			5.8978723	0.0748440	78.8021963	0.0000000	5.7511808	6
Indirect1	:=	a1*c1	Indirect1	-0.0343953	0.0055439	-6.2041116	0.0000000	-0.0452612	-0
Indirect2	:=	a1*c2	Indirect2	-0.0763177	0.0872552	-0.8746495	0.3817646	-0.2473347	0
Indirect3	:=	a1*c3	Indirect3	-0.0186960	0.0397720	-0.4700798	0.6382980	-0.0966477	0
Indirect4	:=	a1*c4	Indirect4	-0.0052226	0.0175532	-0.2975287	0.7660629	-0.0396261	0

0.5.10 Mediation of Whatsapp

Whatsapp has mediation effects between age, education and depression.

lhs	op	rhs	label	est	se	z	pvalue
depre	~	Whatsapp_wechat_line	a1	0.3284364	0.0778755	4.2174517	0.0000247
depre	~	age	b1	-0.1024414	0.0157630	-6.4988335	0.0000000
depre	~	gender	b2	-0.4108867	0.3663792	-1.1214793	0.2620839
depre	~	education	b3	0.7526067	0.1681538	4.4757046	0.0000076
depre	~	income	b4	-0.1008258	0.0739668	-1.3631226	0.1728439
Whatsapp_wechat_line	~	age	c1	-0.0344559	0.0058188	-5.9214531	0.0000000
Whatsapp_wechat_line	~	gender	c2	0.2498321	0.1370558	1.8228492	0.0683262
Whatsapp_wechat_line	~	education	c3	-0.2002961	0.0627206	-3.1934662	0.0014058
Whatsapp_wechat_line	~	income	c4	0.0064953	0.0277081	0.2344183	0.8146602
age	~~	gender		-0.5741979	0.1718196	-3.3418645	0.0008322
gender	~~	education		-0.0684943	0.0168010	-4.0768074	0.0000457
education	~~	income		0.8920235	0.0894667	9.9704499	0.0000000
age	~~	education		-0.7834822	0.3918295	-1.9995486	0.0455490
age	~~	income		0.7855174	0.8777524	0.8949191	0.3708303
gender	~~	income		-0.0369688	0.0374359	-0.9875216	0.3233870
depre	~~	depre		38.3113266	1.5806046	24.2383993	0.0000000
Whatsapp_wechat_line	~~	Whatsapp_wechat_line		5.3763446	0.2218110	24.2383993	0.0000000
age	~~	age		137.4465580	5.6706120	24.2383993	0.0000000
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000
income	~~	income		6.5819104	0.2715489	24.2383993	0.0000000
depre	~1			17.9339287	1.3473182	13.3108341	0.0000000
Whatsapp_wechat_line	~1			8.8567757	0.4335692	20.4275933	0.0000000
age	~1			43.0331915	0.3420172	125.8217019	0.0000000
gender	~1			1.5046809	0.0145859	103.1602425	0.0000000
education	~1			3.4510638	0.0333649	103.4339101	0.0000000
income	~1			5.8978723	0.0748440	78.8021958	0.0000000
Indirect1	:=	a1*c1	Indirect1	-0.0113166	0.0032943	-3.4352143	0.0005921
Indirect2	:=	a1*c2	Indirect2	0.0820540	0.0490388	1.6732470	0.0942787
Indirect3	:=	a1*c3	Indirect3	-0.0657845	0.0258389	-2.5459438	0.0108983
Indirect4	:=	a1*c4	Indirect4	0.0021333	0.0091144	0.2340570	0.8149407

0.5.11 Mediation of Skype

Skype has mediation effects between age, education, income and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.low
depre	~	Skype_FT_zoom	a1	0.5931991	0.0679161	8.7342963	0.0000000	0.46008
depre	~	age	b1	-0.0945181	0.0153247	-6.1677068	0.0000000	-0.12455
depre	~	gender	b2	-0.2668772	0.3572778	-0.7469740	0.4550793	-0.96712
depre	~	education	b3	0.4086381	0.1665419	2.4536650	0.0141409	0.08222
depre	~	income	b4	-0.1448591	0.0724085	-2.0005819	0.0454375	-0.28677
Skype_FT_zoom	~	age	c1	-0.0324340	0.0065143	-4.9789159	0.0000006	-0.04520
Skype_FT_zoom	~	gender	c2	-0.1044432	0.1534366	-0.6806932	0.4960656	-0.40517
Skype_FT_zoom	~	education	c3	0.4689558	0.0702169	6.6786779	0.0000000	0.33133
Skype_FT_zoom	~	income	c4	0.0778266	0.0310197	2.5089381	0.0121095	0.01702
age	~~	gender		-0.5741979	0.1718196	-3.3418645	0.0008322	-0.91095
gender	~~	education		-0.0684943	0.0168010	-4.0768075	0.0000457	-0.10142
education	~~	income		0.8920235	0.0894667	9.9704499	0.0000000	0.71667
age	~~	education		-0.7834822	0.3918295	-1.9995487	0.0455490	-1.55145
age	~~	income		0.7855174	0.8777524	0.8949190	0.3708304	-0.93484
gender	~~	income		-0.0369688	0.0374359	-0.9875218	0.3233869	-0.11034
depre	~~	depre		36.5201703	1.5067072	24.2383993	0.0000000	33.56707
Skype_FT_zoom	~~	Skype_FT_zoom		6.7382914	0.2780007	24.2383993	0.0000000	6.19342
age	~~	age		137.4465580	5.6706120	24.2383993	0.0000000	126.33236
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.22976
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.20226
income	~~	income		6.5819104	0.2715489	24.2383993	0.0000000	6.04968
depre	~1			18.0890108	1.1731676	15.4189482	0.0000000	15.78964
Skype_FT_zoom	~1			4.6422949	0.4853888	9.5640743	0.0000000	3.69095
age	~1			43.0331915	0.3420172	125.8217018	0.0000000	42.36285
gender	~1			1.5046809	0.0145859	103.1602426	0.0000000	1.47609
education	~1			3.4510638	0.0333649	103.4339101	0.0000000	3.38566
income	~1			5.8978723	0.0748440	78.8021957	0.0000000	5.75118
Indirect1	:=	a1*c1	Indirect1	-0.0192398	0.0044480	-4.3254908	0.0000152	-0.02795
Indirect2	:=	a1*c2	Indirect2	-0.0619556	0.0912944	-0.6786355	0.4973689	-0.24088
Indirect3	:=	a1*c3	Indirect3	0.2781842	0.0524341	5.3054037	0.0000001	0.17541
Indirect4	:=	a1*c4	Indirect4	0.0461666	0.0191450	2.4114225	0.0158904	0.00864

0.5.12 Mediation of Online friends

Online friends has mediation effects between age, education and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.lower
depre	~	Online_friends	a1	0.6303420	0.0607824	10.3704634	0.0000000	0.5112106
depre	~	age	b1	-0.0909228	0.0151406	-6.0052481	0.0000000	-0.1205978
depre	~	gender	b2	-0.1265607	0.3533663	-0.3581573	0.7202256	-0.8191458
depre	~	education	b3	0.2251679	0.1674880	1.3443824	0.1788248	-0.1031025
depre	~	income	b4	-0.1099814	0.0713382	-1.5416910	0.1231487	-0.2498017
Online_friends	~	age	c1	-0.0362266	0.0071896	-5.0387733	0.0000005	-0.0503179
Online_friends	~	gender	c2	-0.3208928	0.1693423	-1.8949361	0.0581009	-0.6527977
Online_friends	~	education	c3	0.7323869	0.0774958	9.4506706	0.0000000	0.5804980
Online_friends	~	income	c4	0.0179092	0.0342353	0.5231200	0.6008908	-0.0491908
age	~~	gender		-0.5741979	0.1718196	-3.3418645	0.0008322	-0.9109582
gender	~~	education		-0.0684943	0.0168010	-4.0768075	0.0000457	-0.1014236
education	~~	income		0.8920235	0.0894667	9.9704498	0.0000000	0.7166720
age	~~	education		-0.7834822	0.3918295	-1.9995486	0.0455490	-1.5514539
age	~~	income		0.7855173	0.8777524	0.8949189	0.3708304	-0.9348459
gender	~~	income		-0.0369688	0.0374359	-0.9875217	0.3233869	-0.1103418
depre	~~	depre		35.6300900	1.4699853	24.2383993	0.0000000	32.7489718
Online_friends	~~	Online_friends		8.2077266	0.3386249	24.2383993	0.0000000	7.5440339
age	~~	age		137.4465576	5.6706120	24.2383993	0.0000000	126.3323623
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.2297644
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.2022609
income	~~	income		6.5819104	0.2715489	24.2383993	0.0000000	6.0496843
depre	~1			18.6330461	1.1363097	16.3978588	0.0000000	16.4059200
Online_friends	~1			3.5056687	0.5357058	6.5440188	0.0000000	2.4557047
age	~1			43.0331915	0.3420172	125.8217020	0.0000000	42.3628500
gender	~1			1.5046809	0.0145859	103.1602426	0.0000000	1.4760931
education	~1			3.4510638	0.0333649	103.4339101	0.0000000	3.3856698
income	~1			5.8978723	0.0748440	78.8021959	0.0000000	5.7511808
Indirect1	:=	a1*c1	Indirect1	-0.0228351	0.0050385	-4.5321272	0.0000058	-0.0327104
Indirect2	:=	a1*c2	Indirect2	-0.2022722	0.1085109	-1.8640726	0.0623115	-0.4149497
Indirect3	:=	a1*c3	Indirect3	0.4616543	0.0660901	6.9852216	0.0000000	0.3321200
Indirect4	:=	a1*c4	Indirect4	0.0112889	0.0216074	0.5224557	0.6013531	-0.0310608

0.5.13 Mediation of Watch TV

TV has mediation effect between age and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.lower	ci.u
depre	~	Watch_TV	a1	0.2366485	0.0805294	2.9386603	0.0032963	0.0788138	0.394
depre	~	age	b1	-0.1068099	0.0157711	-6.7724886	0.0000000	-0.1377208	-0.075
depre	~	gender	b2	-0.3573735	0.3674022	-0.9727037	0.3307006	-1.0774687	0.362
depre	~	education	b3	0.6889754	0.1680764	4.0991810	0.0000415	0.3595518	1.018
depre	~	income	b4	-0.1061265	0.0742935	-1.4284765	0.1531548	-0.2517391	0.039
Watch_TV	~	age	c1	-0.0293601	0.0056488	-5.1976092	0.0000002	-0.0404315	-0.018
Watch_TV	~	gender	c2	0.1206042	0.1330506	0.9064538	0.3646957	-0.1401701	0.381
Watch_TV	~	education	c3	-0.0090988	0.0608877	-0.1494355	0.8812100	-0.1284364	0.110
Watch_TV	~	income	c4	0.0314139	0.0268984	1.1678728	0.2428581	-0.0213060	0.084
age	~~	gender		-0.5741979	0.1718196	-3.3418646	0.0008322	-0.9109582	-0.237
gender	~~	education		-0.0684943	0.0168010	-4.0768075	0.0000457	-0.1014236	-0.035
education	~~	income		0.8920235	0.0894667	9.9704499	0.0000000	0.7166720	1.067
age	~~	education		-0.7834821	0.3918295	-1.9995485	0.0455490	-1.5514538	-0.015
age	~~	income		0.7855175	0.8777524	0.8949192	0.3708303	-0.9348457	2.505
gender	~~	income		-0.0369688	0.0374359	-0.9875217	0.3233870	-0.1103418	0.036
depre	~~	depre		38.6075268	1.5928249	24.2383993	0.0000000	35.4856473	41.729
Watch_TV	~~	Watch_TV		5.0667042	0.2090363	24.2383993	0.0000000	4.6570006	5.476
age	~~	age		137.4465580	5.6706120	24.2383993	0.0000000	126.3323627	148.560
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.2297644	0.270
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.2022609	1.413
income	~~	income		6.5819104	0.2715489	24.2383993	0.0000000	6.0496843	7.114
depre	~1			19.0355196	1.3145851	14.4802493	0.0000000	16.4589802	21.612
Watch_TV	~1			7.6370502	0.4208988	18.1446244	0.0000000	6.8121038	8.461
age	~1			43.0331915	0.3420172	125.8217018	0.0000000	42.3628500	43.703
gender	~1			1.5046809	0.0145859	103.1602426	0.0000000	1.4760931	1.533
education	~1			3.4510638	0.0333649	103.4339101	0.0000000	3.3856698	3.516
income	~1			5.8978723	0.0748440	78.8021959	0.0000000	5.7511808	6.044
Indirect1	:=	a1*c1	Indirect1	-0.0069480	0.0027161	-2.5581027	0.0105245	-0.0122715	-0.001
Indirect2	:=	a1*c2	Indirect2	0.0285408	0.0329501	0.8661828	0.3863899	-0.0360402	0.093
Indirect3	:=	a1*c3	Indirect3	-0.0021532	0.0144276	-0.1492426	0.8813622	-0.0304308	0.026
Indirect4	:=	a1*c4	Indirect4	0.0074340	0.0068497	1.0853067	0.2777858	-0.0059912	0.020

0.5.14 Mediation of Radio

Radio has mediation effect between age and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.lower	ci.uppe
depre	~	Radio	a1	0.2922850	0.0906214	3.2253411	0.0012582	0.1146703	0.469899
depre	~	age	b1	-0.1031357	0.0159255	-6.4761164	0.0000000	-0.1343492	-0.071922
depre	~	gender	b2	-0.2768624	0.3673536	-0.7536675	0.4510489	-0.9968622	0.443137
depre	~	education	b3	0.7057627	0.1680521	4.1996665	0.0000267	0.3763867	1.035138
depre	~	income	b4	-0.1070834	0.0742407	-1.4423822	0.1491946	-0.2525924	0.038425
Radio	~	age	c1	-0.0363422	0.0050160	-7.2453236	0.0000000	-0.0461733	-0.026511
Radio	~	gender	c2	-0.1778049	0.1181452	-1.5049687	0.1323321	-0.4093653	0.053755
Radio	~	education	c3	-0.0648019	0.0540666	-1.1985582	0.2306998	-0.1707704	0.041166
Radio	~	income	c4	0.0287081	0.0238850	1.2019309	0.2293903	-0.0181056	0.075521
age	~~	gender		-0.5741979	0.1718196	-3.3418645	0.0008322	-0.9109582	-0.237437
gender	~~	education		-0.0684943	0.0168010	-4.0768074	0.0000457	-0.1014236	-0.035565
education	~~	income		0.8920235	0.0894667	9.9704499	0.0000000	0.7166720	1.067375
age	~~	education		-0.7834821	0.3918295	-1.9995485	0.0455490	-1.5514538	-0.015510
age	~~	income		0.7855174	0.8777524	0.8949191	0.3708303	-0.9348457	2.505880
gender	~~	income		-0.0369688	0.0374359	-0.9875215	0.3233870	-0.1103418	0.036404
depre	~~	depre		38.5499750	1.5904505	24.2383993	0.0000000	35.4327492	41.667200
Radio	~~	Radio		3.9950704	0.1648240	24.2383993	0.0000000	3.6720213	4.318119
age	~~	age		137.4465578	5.6706120	24.2383993	0.0000000	126.3323625	148.560753
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.2297644	0.270191
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.2022609	1.413800
income	~~	income		6.5819103	0.2715489	24.2383993	0.0000000	6.0496843	7.114136
depre	~1			18.2595651	1.4104489	12.9459250	0.0000000	15.4951362	21.023994
Radio	~1			8.8381201	0.3737465	23.6473668	0.0000000	8.1055905	9.570649
age	~1			43.0331915	0.3420172	125.8217019	0.0000000	42.3628500	43.703533
gender	~1			1.5046809	0.0145859	103.1602428	0.0000000	1.4760931	1.533268
education	~1			3.4510638	0.0333649	103.4339100	0.0000000	3.3856698	3.516457
income	~1			5.8978723	0.0748440	78.8021960	0.0000000	5.7511808	6.044563
Indirect1	:=	a1*c1	Indirect1	-0.0106223	0.0036050	-2.9465690	0.0032132	-0.0176879	-0.003556
Indirect2	:=	a1*c2	Indirect2	-0.0519697	0.0381063	-1.3638081	0.1726280	-0.1266567	0.022717
Indirect3	:=	a1*c3	Indirect3	-0.0189406	0.0168587	-1.1234934	0.2612280	-0.0519831	0.014101
Indirect4	:=	a1*c4	Indirect4	0.0083910	0.0074502	1.1262699	0.2600513	-0.0062112	0.022993

0.5.15 Mediation of newspaper

Newspaper has mediation effect between education and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.lower	ci.up
depre	~	Newspaper	a1	0.4527864	0.0646723	7.0012440	0.0000000	0.3260311	0.5795
depre	~	age	b1	-0.1173882	0.0153423	-7.6512758	0.0000000	-0.1474586	-0.0873
depre	~	gender	b2	-0.2800252	0.3612319	-0.7751951	0.4382244	-0.9880268	0.4279
depre	~	education	b3	0.5351104	0.1666935	3.2101461	0.0013267	0.2083972	0.8618
depre	~	income	b4	-0.1025985	0.0730175	-1.4051219	0.1599850	-0.2457101	0.0405
Newspaper	~	age	c1	0.0080176	0.0069168	1.1591538	0.2463935	-0.0055390	0.0215
Newspaper	~	gender	c2	-0.1077938	0.1629177	-0.6616461	0.5081981	-0.4271066	0.2115
Newspaper	~	education	c3	0.3350629	0.0745557	4.4941299	0.0000070	0.1889364	0.4811
Newspaper	~	income	c4	0.0086266	0.0329365	0.2619169	0.7933855	-0.0559277	0.0731
age	~~	gender		-0.5741979	0.1718196	-3.3418644	0.0008322	-0.9109582	-0.2374
gender	~~	education		-0.0684943	0.0168010	-4.0768072	0.0000457	-0.1014236	-0.0355
education	~~	income		0.8920236	0.0894667	9.9704500	0.0000000	0.7166720	1.0673
age	~~	education		-0.7834822	0.3918295	-1.9995488	0.0455490	-1.5514539	-0.0155
age	~~	income		0.7855175	0.8777524	0.8949192	0.3708303	-0.9348457	2.5058
gender	~~	income		-0.0369688	0.0374359	-0.9875212	0.3233872	-0.1103418	0.0364
depre	~~	depre		37.3338208	1.5402758	24.2383993	0.0000000	34.3149356	40.3527
Newspaper	~~	Newspaper		7.5967578	0.3134183	24.2383993	0.0000000	6.9824693	8.2110
age	~~	age		137.4465605	5.6706121	24.2383993	0.0000000	126.3323650	148.5607
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.2297644	0.2701
education	~~	education		1.3080308	0.0539652	24.2383993	0.0000000	1.2022609	1.4138
income	~~	income		6.5819105	0.2715489	24.2383993	0.0000000	6.0496845	7.1141
depre	~1			19.1743598	1.1671147	16.4288568	0.0000000	16.8868571	21.4618
Newspaper	~1			3.6848623	0.5153817	7.1497727	0.0000000	2.6747326	4.6949
age	~1			43.0331915	0.3420172	125.8217007	0.0000000	42.3628500	43.7035
gender	~1			1.5046809	0.0145859	103.1602425	0.0000000	1.4760931	1.5332
education	~1			3.4510638	0.0333649	103.4339101	0.0000000	3.3856698	3.5164
income	~1			5.8978723	0.0748440	78.8021949	0.0000000	5.7511808	6.0445
Indirect1	:=	a1*c1	Indirect1	0.0036303	0.0031745	1.1435861	0.2527953	-0.0025916	0.0098
Indirect2	:=	a1*c2	Indirect2	-0.0488076	0.0740956	-0.6587112	0.5100813	-0.1940322	0.0964
Indirect3	:=	a1*c3	Indirect3	0.1517119	0.0401142	3.7820034	0.0001556	0.0730896	0.2303
Indirect4	:=	a1*c4	Indirect4	0.0039060	0.0149236	0.2617339	0.7935266	-0.0253437	0.0331

0.6 Information source mediation analysis

Information source related confusion has significant mediation effect between age and depression.

Information source related confusion has relatively weak significant mediation effect ($p<0.1$) between income and depression.

Information source related certainty has relatively weak ($p<0.1$) mediation effect between education and depression.

lhs	op	rhs	label	est	se	z	pvalue	ci.lower	ci.upp
depre	~	certainty	a1	-0.5615210	0.1107112	-5.0719449	0.0000004	-0.7785109	-0.34453
depre	~	overload	a2	0.0960127	0.1103870	0.8697827	0.3844192	-0.1203419	0.31236
depre	~	anxiety	a3	0.9926370	0.1027916	9.6567912	0.0000000	0.7911691	1.19410
depre	~	confusion	a4	1.1133721	0.1026806	10.8430605	0.0000000	0.9121218	1.31462
depre	~	age	b1	-0.0954407	0.0137519	-6.9401755	0.0000000	-0.1223939	-0.06848
depre	~	gender	b2	-0.3716163	0.3224770	-1.1523808	0.2491646	-1.0036597	0.26042
depre	~	education	b3	0.7438708	0.1478191	5.0323053	0.0000005	0.4541507	1.03359
depre	~	income	b4	-0.1380049	0.0654184	-2.1095720	0.0348952	-0.2662226	-0.00978
certainty	~	age	c1	-0.0012346	0.0036038	-0.3425920	0.7319054	-0.0082980	0.00582
certainty	~	gender	c2	0.1129793	0.0848838	1.3309879	0.1831930	-0.0533899	0.27934
certainty	~	education	c3	-0.0706756	0.0388452	-1.8194173	0.0688478	-0.1468108	0.00545
certainty	~	income	c4	0.0269667	0.0171606	1.5714249	0.1160840	-0.0066676	0.06060
overload	~	age	d1	-0.0052764	0.0036144	-1.4598320	0.1443362	-0.0123605	0.00180
overload	~	gender	d2	-0.0270461	0.0851330	-0.3176925	0.7507182	-0.1939038	0.13981
overload	~	education	d3	-0.0273772	0.0389593	-0.7027131	0.4822346	-0.1037359	0.04898
overload	~	income	d4	0.0348201	0.0172110	2.0231283	0.0430599	0.0010871	0.06855
anxiety	~	age	e1	-0.0060949	0.0038815	-1.5702451	0.1163581	-0.0137024	0.00151
anxiety	~	gender	e2	0.0448281	0.0914237	0.4903341	0.6238975	-0.1343589	0.22401
anxiety	~	education	e3	-0.0602402	0.0418380	-1.4398438	0.1499116	-0.1422412	0.02176
anxiety	~	income	e4	0.0117690	0.0184828	0.6367551	0.5242844	-0.0244566	0.04799
confusion	~	age	f1	-0.0111857	0.0038857	-2.8787096	0.0039931	-0.0188015	-0.00356
confusion	~	gender	f2	0.0577800	0.0915225	0.6313202	0.5278312	-0.1216008	0.23716
confusion	~	education	f3	-0.0308139	0.0418832	-0.7357091	0.4619077	-0.1129035	0.05127
confusion	~	income	f4	0.0354166	0.0185028	1.9141265	0.0556040	-0.0008481	0.07168
age	~~	gender		-0.5741969	0.1718192	-3.3418675	0.0008322	-0.9109563	-0.23743
gender	~~	education		-0.0684946	0.0168010	-4.0768193	0.0000457	-0.1014239	-0.03556
education	~~	income		0.8920233	0.0894667	9.9704460	0.0000000	0.7166717	1.06737
age	~~	education		-0.7834855	0.3918285	-1.9995622	0.0455476	-1.5514553	-0.01551
age	~~	income		0.7855216	0.8777501	0.8949263	0.3708265	-0.9348369	2.50588
gender	~~	income		-0.0369697	0.0374359	-0.9875475	0.3233743	-0.1103428	0.03640
depre	~~	depre		29.7003962	1.2253448	24.2383993	0.0000000	27.2987645	32.10202
certainty	~~	certainty		2.0622505	0.0850820	24.2383993	0.0000000	1.8954930	2.22900
overload	~~	overload		2.0743800	0.0855824	24.2383993	0.0000000	1.9066416	2.24211
anxiety	~~	anxiety		2.3922643	0.0986973	24.2383993	0.0000000	2.1988212	2.58570
confusion	~~	confusion		2.3974386	0.0989108	24.2383993	0.0000000	2.2035771	2.59130
age	~~	age		137.4458184	5.6705815	24.2383993	0.0000000	126.3316829	148.55995
gender	~~	gender		0.2499781	0.0103133	24.2383993	0.0000000	0.2297644	0.27019
education	~~	education		1.3080312	0.0539652	24.2383993	0.0000000	1.2022613	1.41380
income	~~	income		6.5819102	0.2715489	24.2383993	0.0000000	6.0496842	7.11413
depre	~1			13.6385310	1.4130173	9.6520623	0.0000000	10.8690680	16.40799
certainty	~1			4.7799078	0.2685259	17.8005467	0.0000000	4.2536067	5.30620
overload	~1			4.5560212	0.2693144	16.9171078	0.0000000	4.0281746	5.08386
anxiety	~1			4.4941606	0.2892145	15.5391960	0.0000000	3.9273106	5.06101
confusion	~1			4.4816624	0.2895271	15.4792505	0.0000000	3.9141997	5.04912
age	~1			43.0331915	0.3420163	125.8220404	0.0000000	42.3628518	43.70353
gender	~1			1.5046809	0.0145859	103.1602382	0.0000000	1.4760931	1.53326
education	~1			3.4510638	0.0333649	103.4338925	0.0000000	3.3856698	3.51645
income	~1			5.8978723	0.0748440	78.8021969	0.0000000	5.7511808	6.04456
Indirect1	:=	a1*c1	Indirect1	0.0006933	0.0020282	0.3418131	0.7324915	-0.0032820	0.00466
Indirect2	:=	a1*c2	Indirect2	-0.0634402	0.0492779	-1.2873975	0.1979558	-0.1600232	0.03314
Indirect3	:=	a1*c3	Indirect3	0.0396858	0.0231734	1.7125634	0.0867929	-0.0057331	0.08510
Indirect4	:=	a1*c4	Indirect4	-0.0151424	0.0100880	-1.5010315	0.1333474	-0.0349144	0.00462
Indirect5	:=	a2*d1	Indirect5	-0.0005066	0.0006780	-0.7472102	0.4549367	-0.0018354	0.00082
Indirect6	:=	a2*d2	Indirect6	-0.0025968	0.0087020	-0.2984099	0.7653904	-0.0196524	0.01445
Indirect7	:=	a2*d3	Indirect7	0.0026286	0.0048088	0.5466092	0.5846473	-0.0120537	0.00679