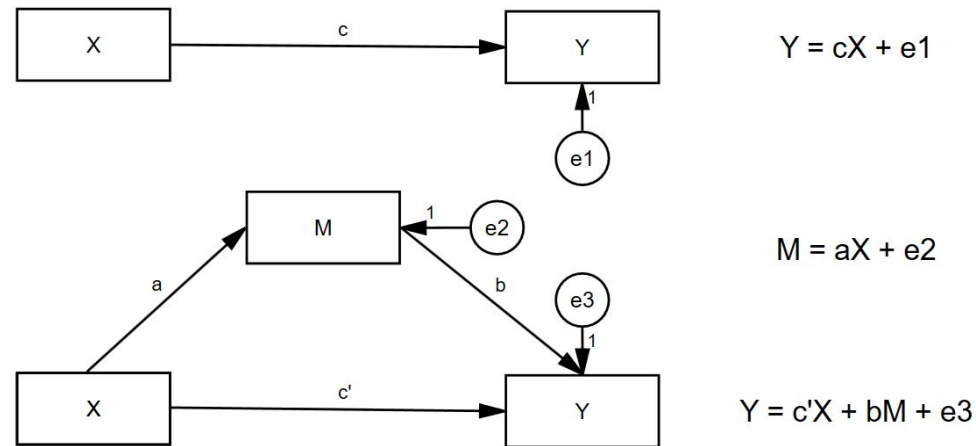


Analysis of Simple Mediation Model Base on Regression & Process



Note:

1. Mediation Model

1.1 Complete Mediation: $X \rightarrow M \rightarrow Y$: $c' = 0$ and $a \cdot b$ 95% Bootstrap CI does not include zero (Theoretically pure but statistically rare);

1.2 Partial Mediation: $X \rightarrow Y$ & $X \rightarrow M \rightarrow Y$: $c' \neq 0$ and $a \cdot b$ 95% Bootstrap CI does not include zero.

2. Effect of X on Y

2.1 Total Effect: $c(c = a \cdot b + c')$;

2.2 Indirect Effect: $a \cdot b$ (Proportion Mediated: $a \cdot b / c$); 2.3 Direct Effect: c' (Proportion of Direct Effect: $1 - a \cdot b / c$).

Table1.Model coefficients for the Simple-Mediation.

Independent Variables	Dependent Variable																	
	Y						M						Y					
	B	SE	Beta	t	LLCI	ULCI	B	SE	Beta	t	LLCI	ULCI	B	SE	Beta	t	LLCI	ULCI
(Constant)	2.079	0.365		5.688***	1.359	2.799	0.555	0.374		1.483 ^{N.S.}	-0.182	1.293	1.832	0.327		5.596***	1.187	2.476
X	0.623 ^c	0.073	0.477	8.592***	0.480	0.766	0.651 ^a	0.074	0.485	8.765***	0.505	0.797	0.333 ^c	0.074	0.255	4.504***	0.187	0.478
M													0.445 ^b	0.055	0.458	8.094***	0.337	0.554
R-Sq=0.389,Adj. R-Sq=0.384,																		
R-Sq=0.228						R-Sq=0.235						$\Delta R-Sq^A=0.161,\Delta F(1,249)=65.505^{***}$						
F(1,250)=73.891***						F(1,250)=76.824***						F(2,249)=79.185***						

Note: ^{N.S.} : No Significant; ***:p<0.001.

^A:(Incremental variance explained) $R-Sq^1 - R-Sq^2$ (¹ : Predictors : (Constant) , X ; ² : Predictors : (Constant) , X , M . Note : Hierarchical Regression)

Table2.Effect of X On Y.

Total Effect of X on Y					
Effect	SE	t	LLCI	ULCI	Proportion
0.623 ^c	0.073	8.592 ^{***}	0.480	0.766	/
Direct Effect of X on Y					
Effect	SE	t	LLCI	ULCI	Proportion
0.333 ^{c'}	0.074	4.504 ^{***}	0.187	0.478	0.53
Indirect Effect of X on Y:X->M->Y					
Effect	Std.Effect	BootSE	BootLLCI	BootULCI	Proportion
0.290 ^{a*b}	0.222	0.047	0.202	0.386	0.47

Note: ***:p<0.001.

Level of confidence = 95% ; Number of Bootstrap Samples = 1000.