

SEM Project:

Confirmatory Factor Analysis on the Sense of Power Scale

Amanda Wang

Psych 290Z

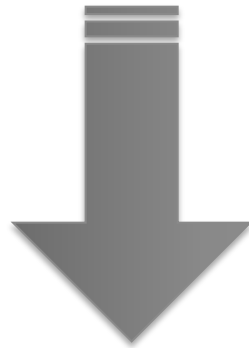
May 12, 2014

Power:

the ability to influence others by
providing/withholding resources or
administering punishment

Consequences of Power

- Information processing
- Higher power → more **individualistic, self-focused** mindset
 - Lower prosociality and empathy
 - Less accurate judgments of others' emotions
 - Lower perspective-taking ability

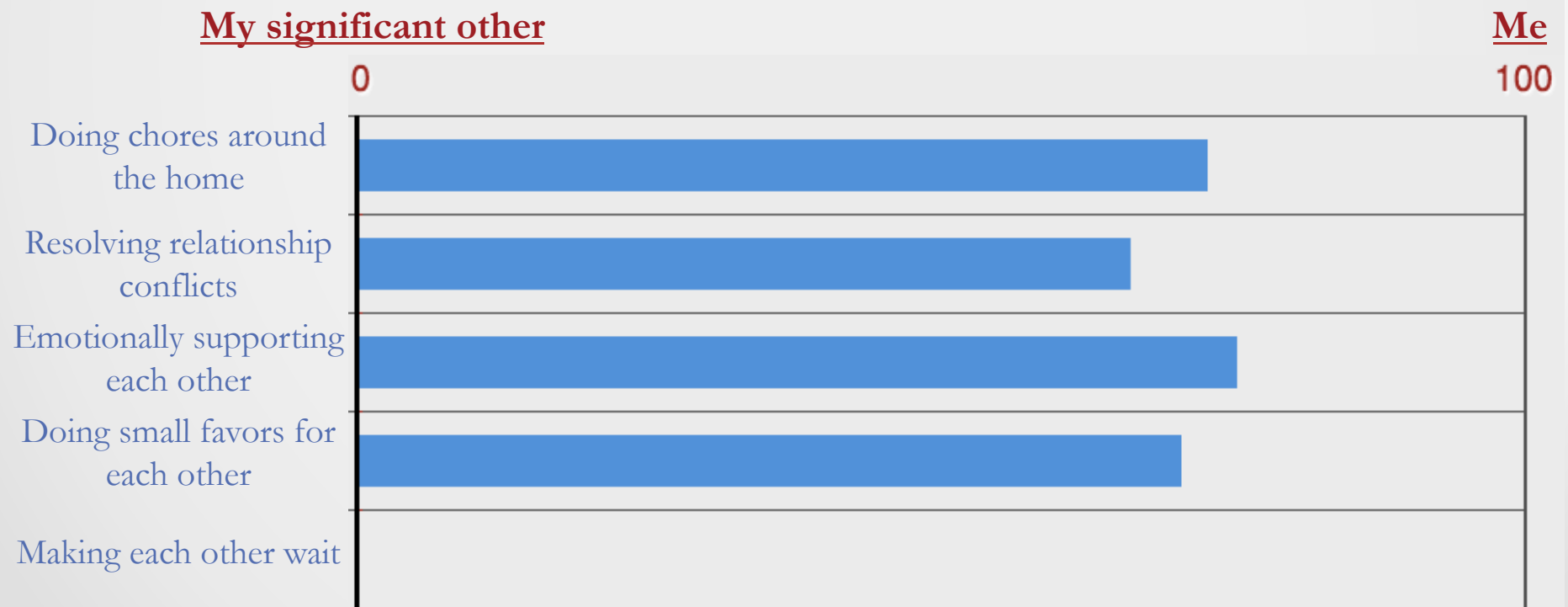


Egocentric cognitive biases?

Responsibility Bias

Tendency to overclaim one's relative contributions to a joint task, endeavor, or outcome

(Taking more credit than you deserve)



Sense of Power Scale

(Anderson, John, & Keltner, 2012)

In my relationship with _____ ...

1. I can get him/her/them to listen to what I say.
2. My wishes do not carry much weight. (r)
3. I can get him/her/them to do what I want.
4. Even if I voice them, my views have little sway. (r)
5. I think I have a great deal of power.
6. My ideas and opinions are often ignored. (r)
7. Even when I try, I am not able to get my way. (r)
8. If I want to, I get to make the decisions

Sense of Power Scale

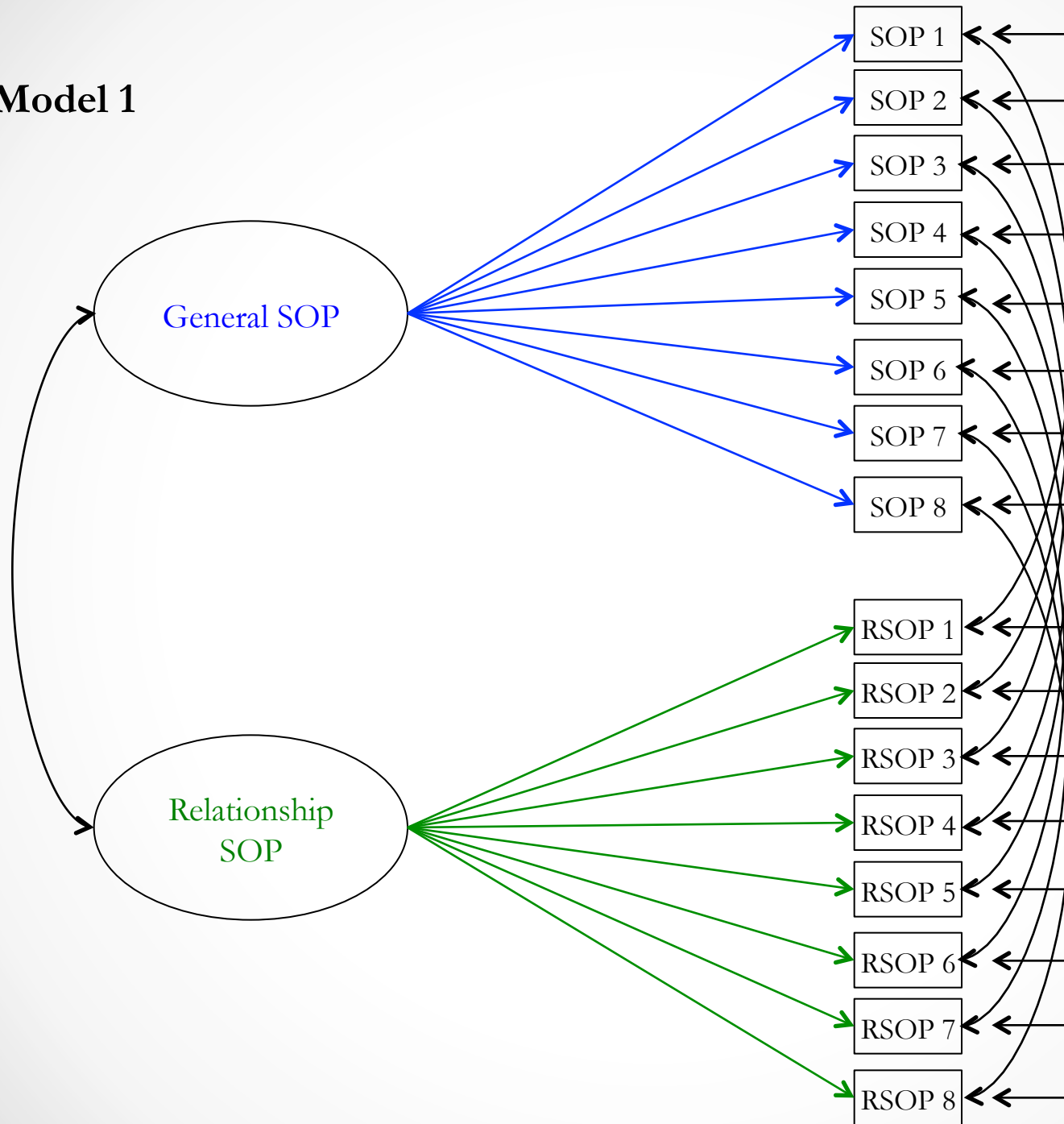
(Anderson, John, & Keltner, 2012)

1. Detailed theoretical review
 2. Created a set of 28 questions
 3. Based on pilot work, selected 8 from larger set of 28
- Beliefs about your ability to...
 - **make decisions** in the relationship
 - influence the other person's **behavior**
 - influence the other person's **opinions and beliefs**
 - **satisfy your own desires and wishes** in the relationship

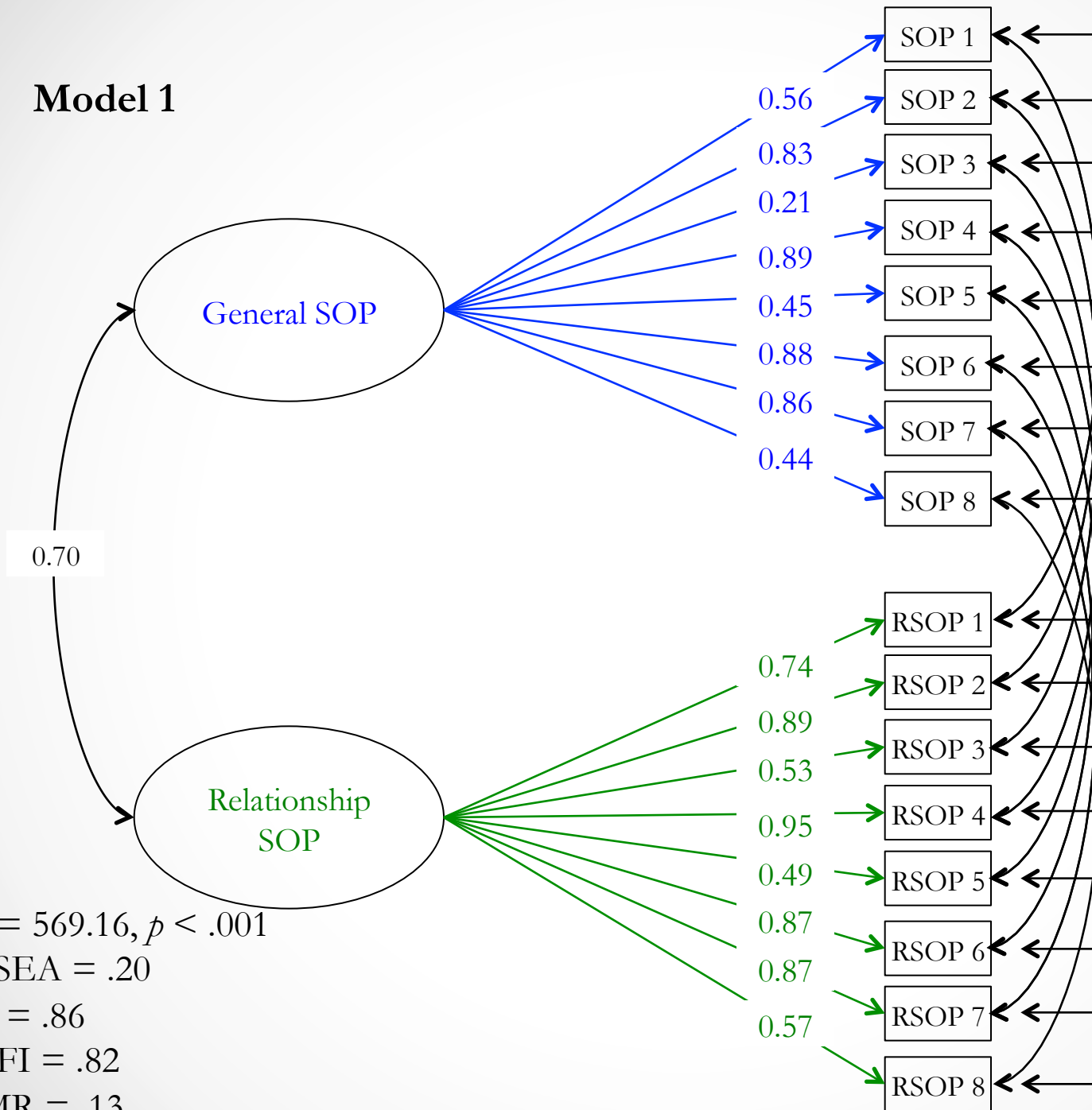
Research Questions

1. Does a single latent factor capture variation in the eight items in the Sense of Power Scale?
2. Does the measurement model for the general Sense of Power Scale also apply to relationship-specific Sense of Power?
3. (Do general and relationship-specific Sense of Power predict responsibility bias?)

Model 1

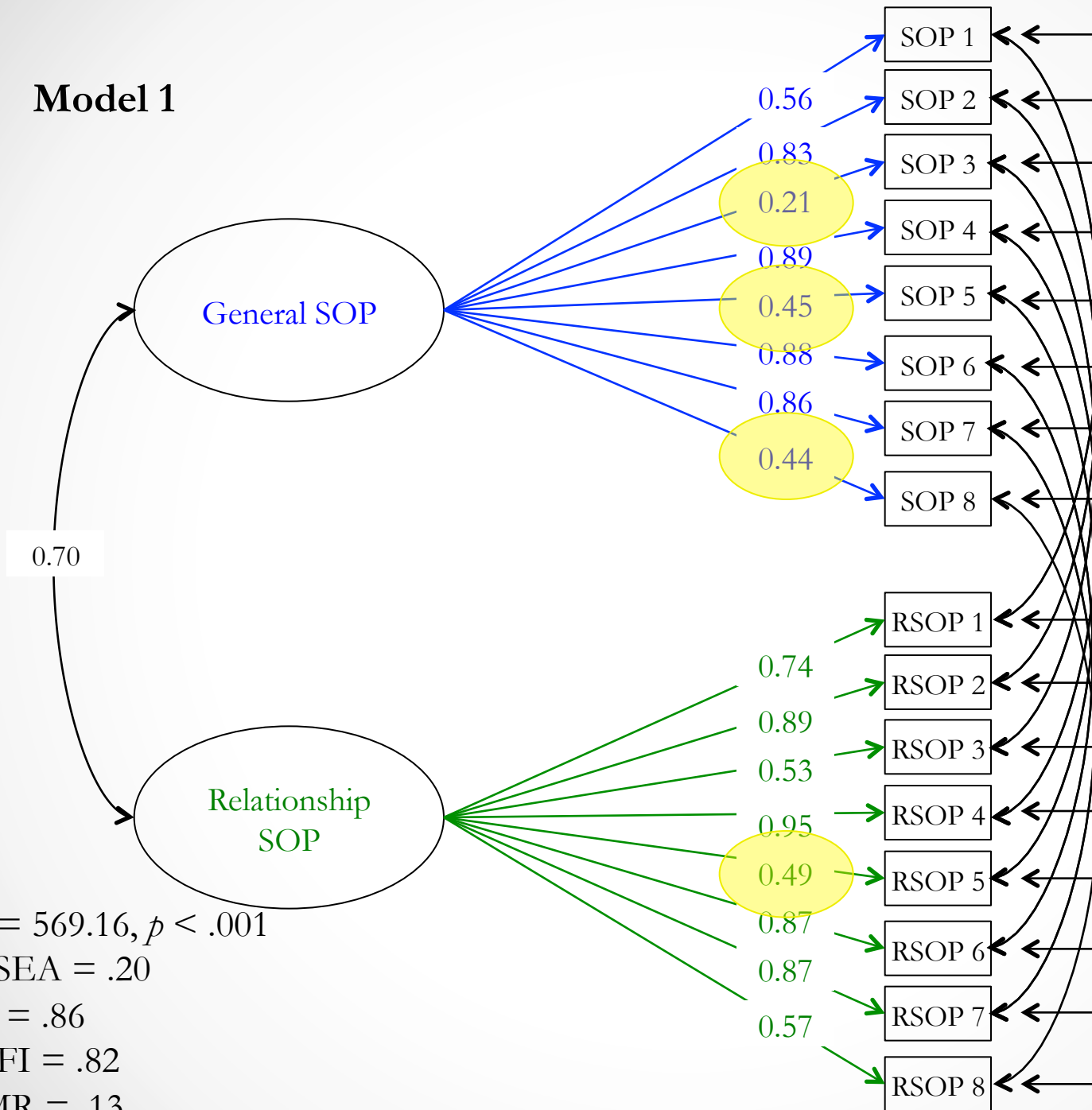


Model 1

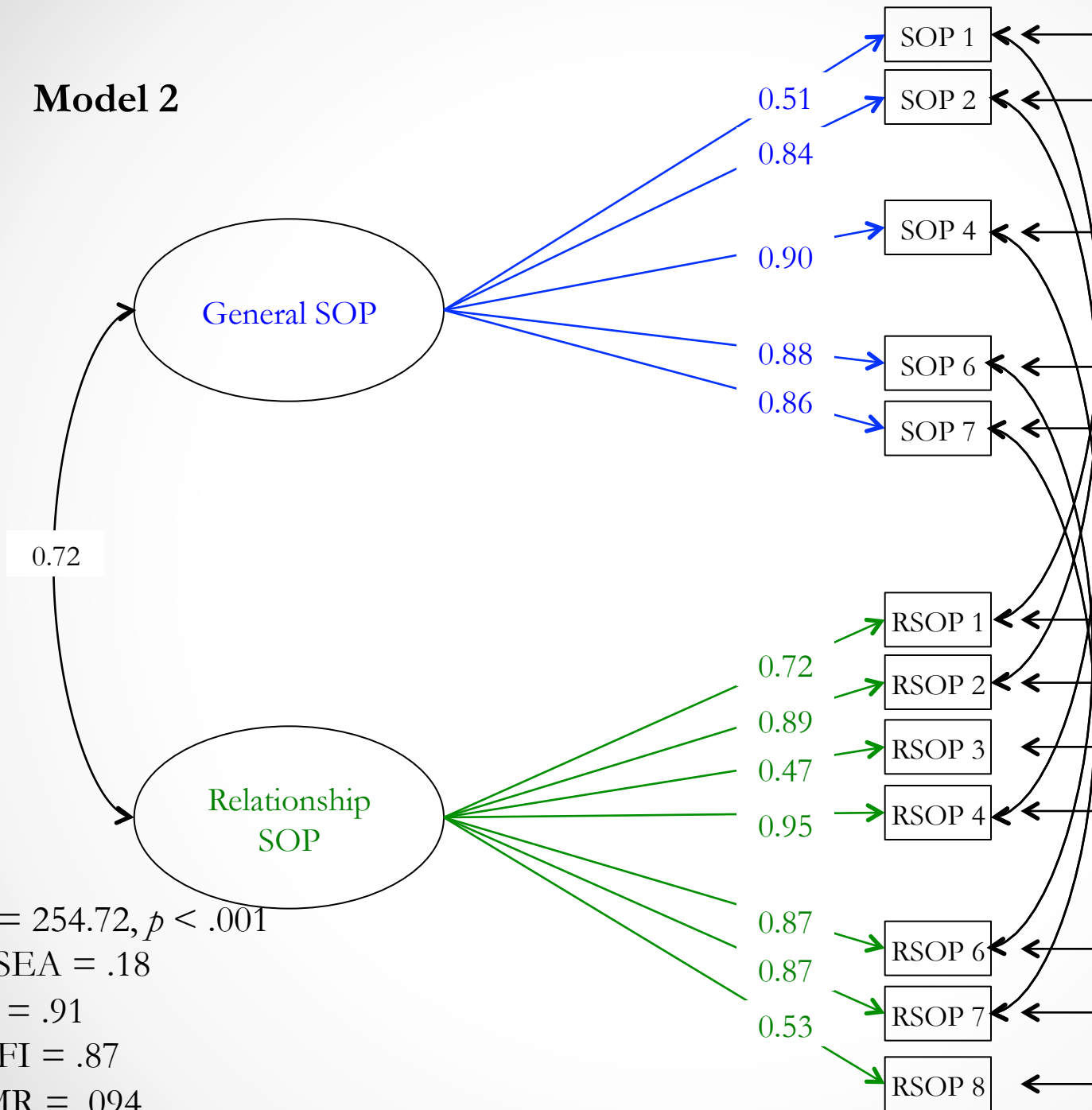


	Model 1
χ^2	569.16 ($p < .001$)
RMSEA	.20
CFI	.86
NNFI	.82
SRMR	.13

Model 1

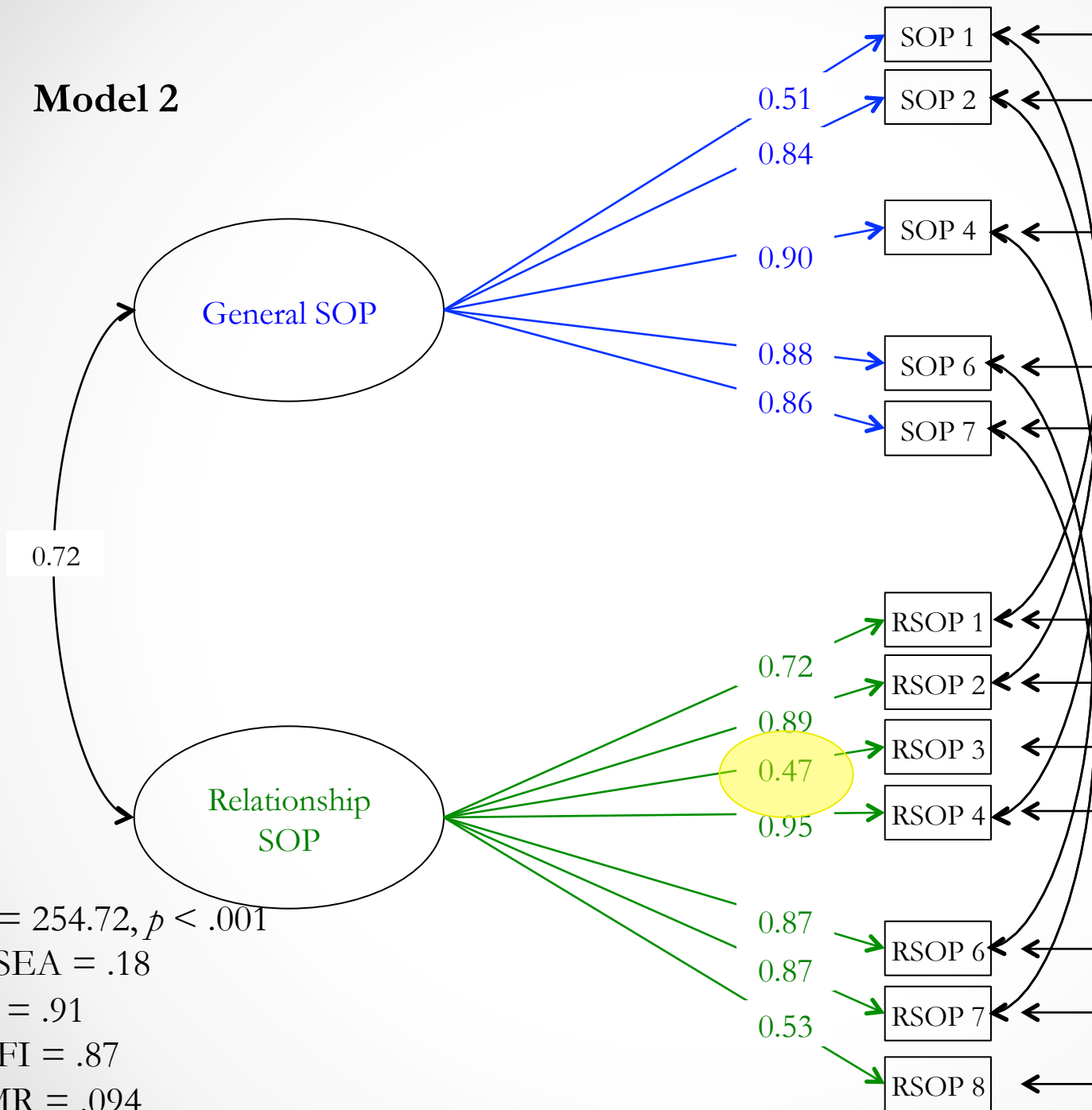


Model 2



	Model 1	Model 2
χ^2	569.16 ($p < .001$)	254.72, ($p < .001$)
RMSEA	.20	.18
CFI	.86	.91
NNFI	.82	.87
SRMR	.13	.09

Model 2



$$\chi^2 = 254.72, p < .001$$

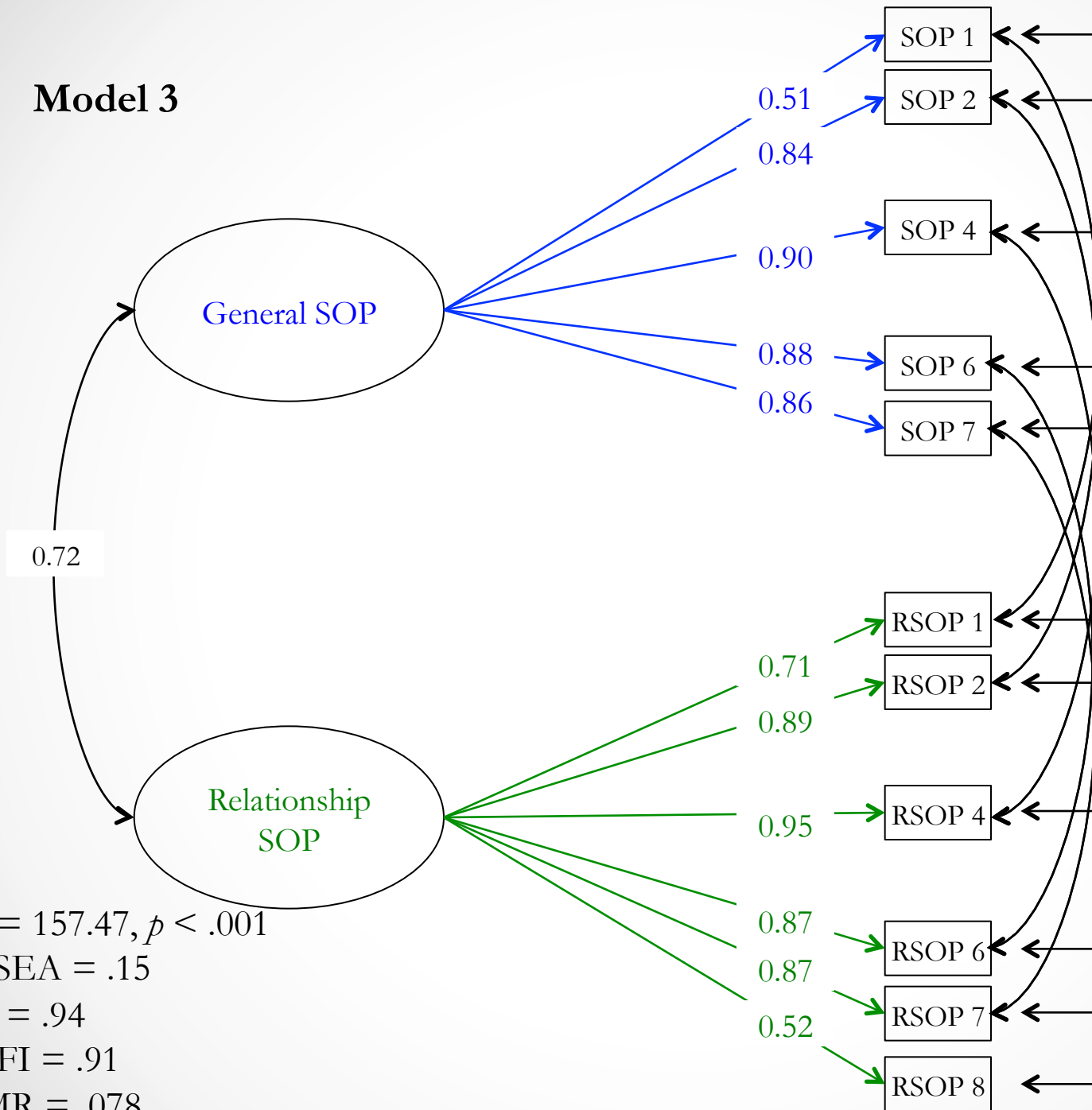
$$\text{RMSEA} = .18$$

$$\text{CFI} = .91$$

$$\text{NNFI} = .87$$

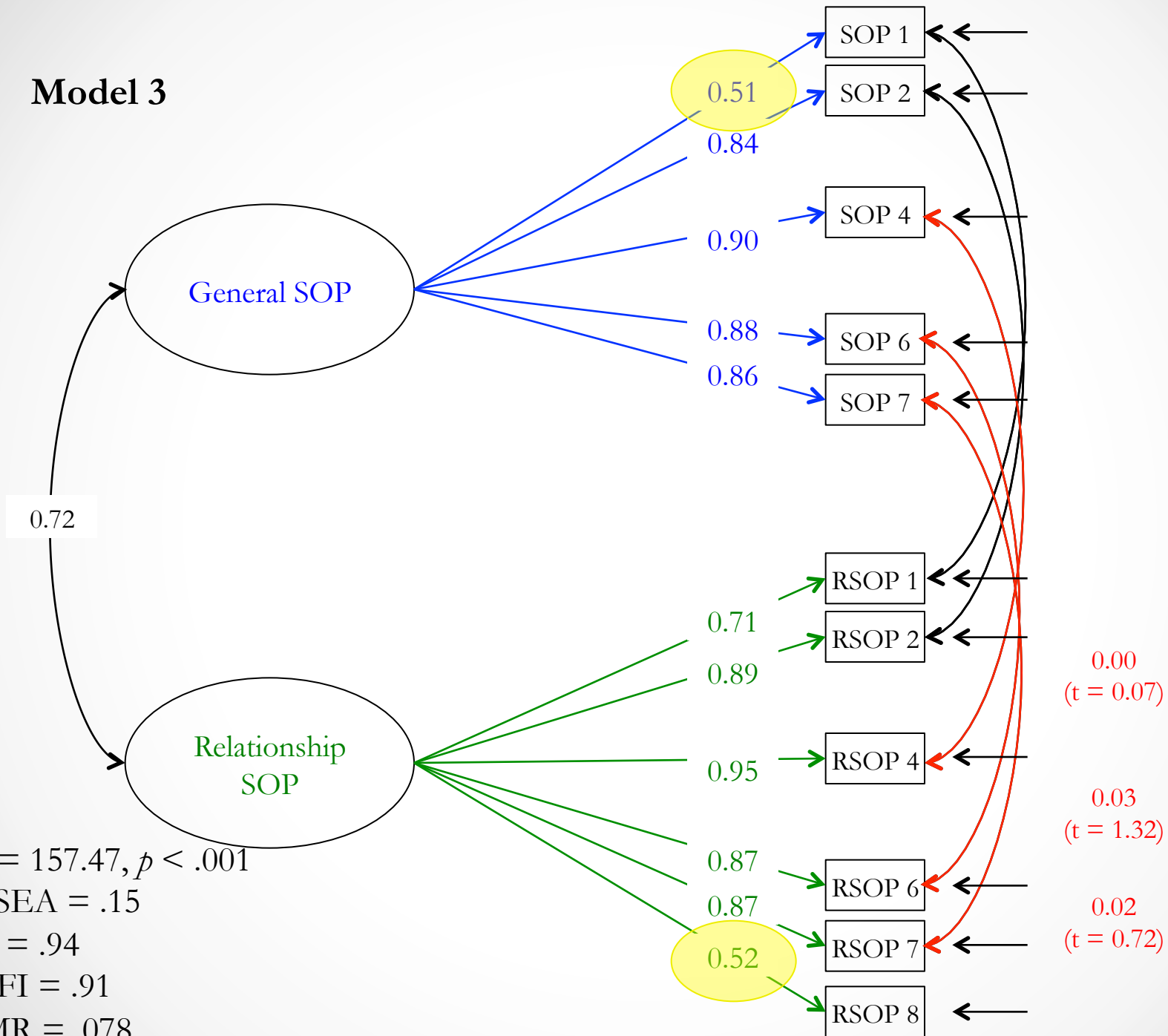
$$\text{SRMR} = .094$$

Model 3

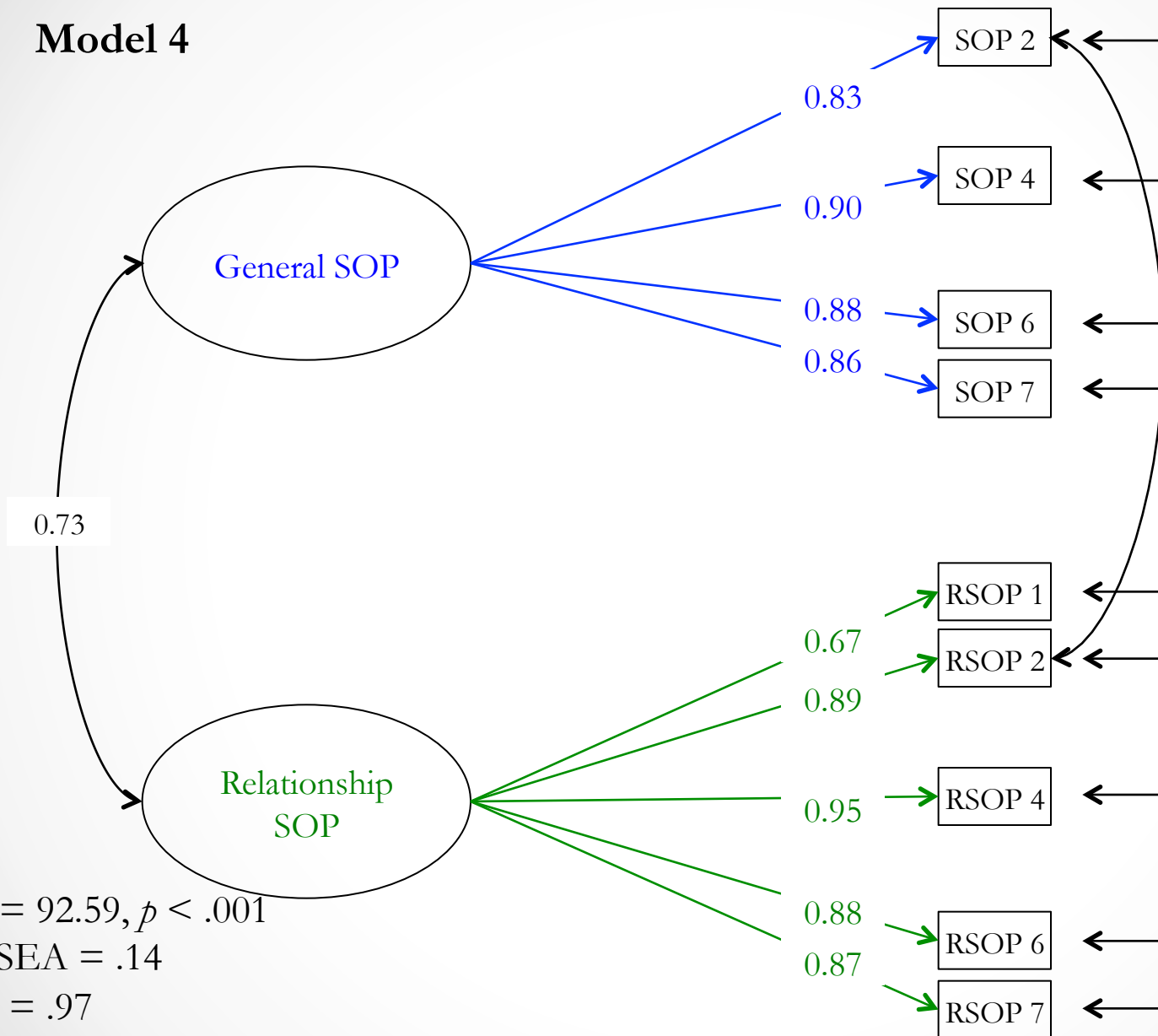


	Model 1	Model 2	Model 3
χ^2	569.16 ($p < .001$)	254.72, ($p < .001$)	157.47, ($p < .001$)
RMSEA	.20	.18	.15
CFI	.86	.91	.94
NNFI	.82	.87	.91
SRMR	.13	.09	.08

Model 3



Model 4



$$\chi^2 = 92.59, p < .001$$

$$\text{RMSEA} = .14$$

$$\text{CFI} = .97$$

$$\text{NNFI} = .95$$

$$\text{SRMR} = .054$$

	Model 1	Model 2	Model 3	Model 4
χ^2	569.16 ($p < .001$)	254.72, ($p < .001$)	157.47, ($p < .001$)	92.59, ($p < .001$)
RMSEA	.20	.18	.15	.14
CFI	.86	.91	.94	.97
NNFI	.82	.87	.91	.95
SRMR	.13	.09	.08	.05

Sense of Power Scale

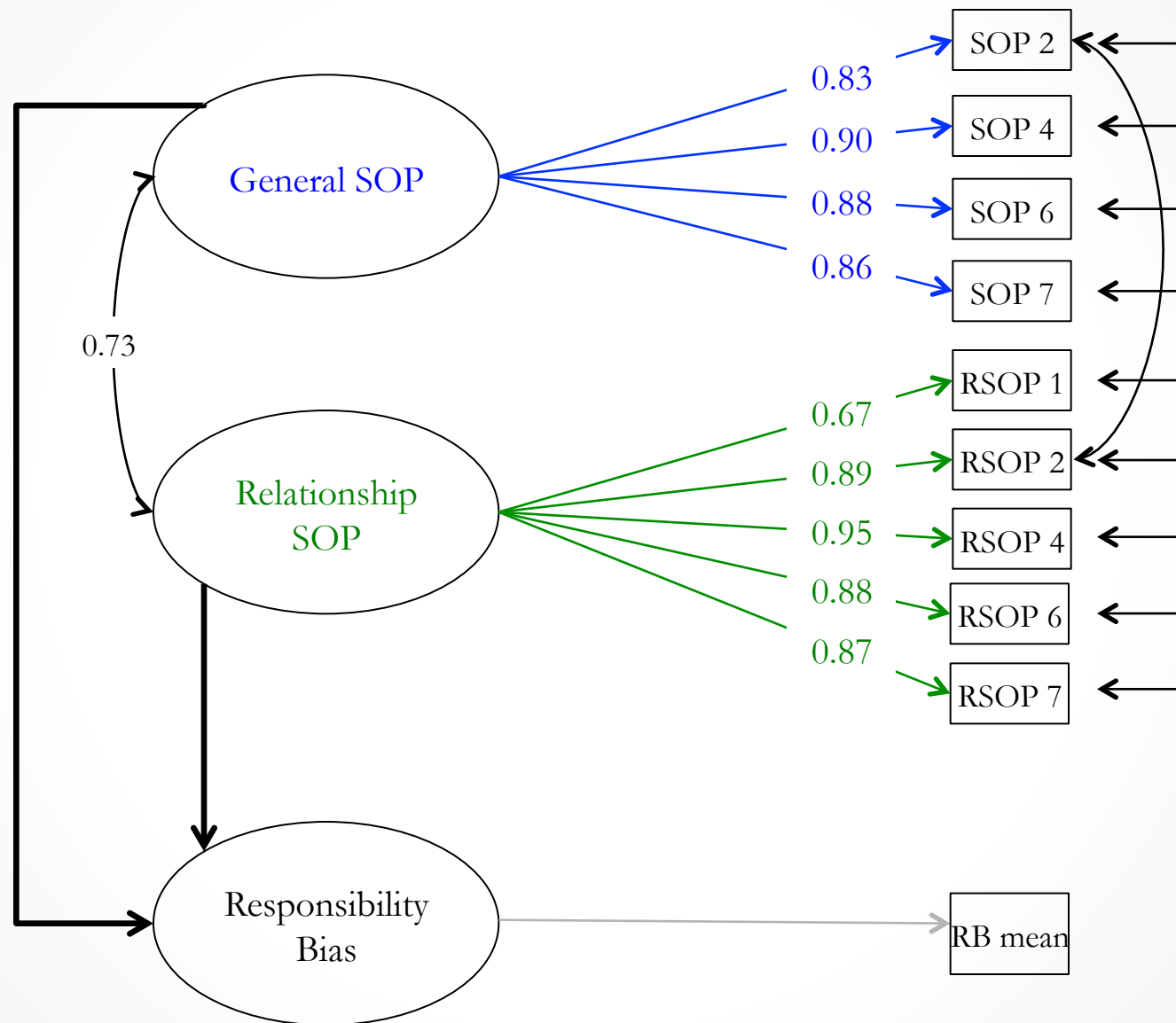
*In my relationship with **other people in general...***

1. My wishes do not carry much weight. (r)
2. Even if I voice them, my views have little sway. (r)
3. My ideas and opinions are often ignored. (r)
4. Even when I try, I am not able to get my way. (r)

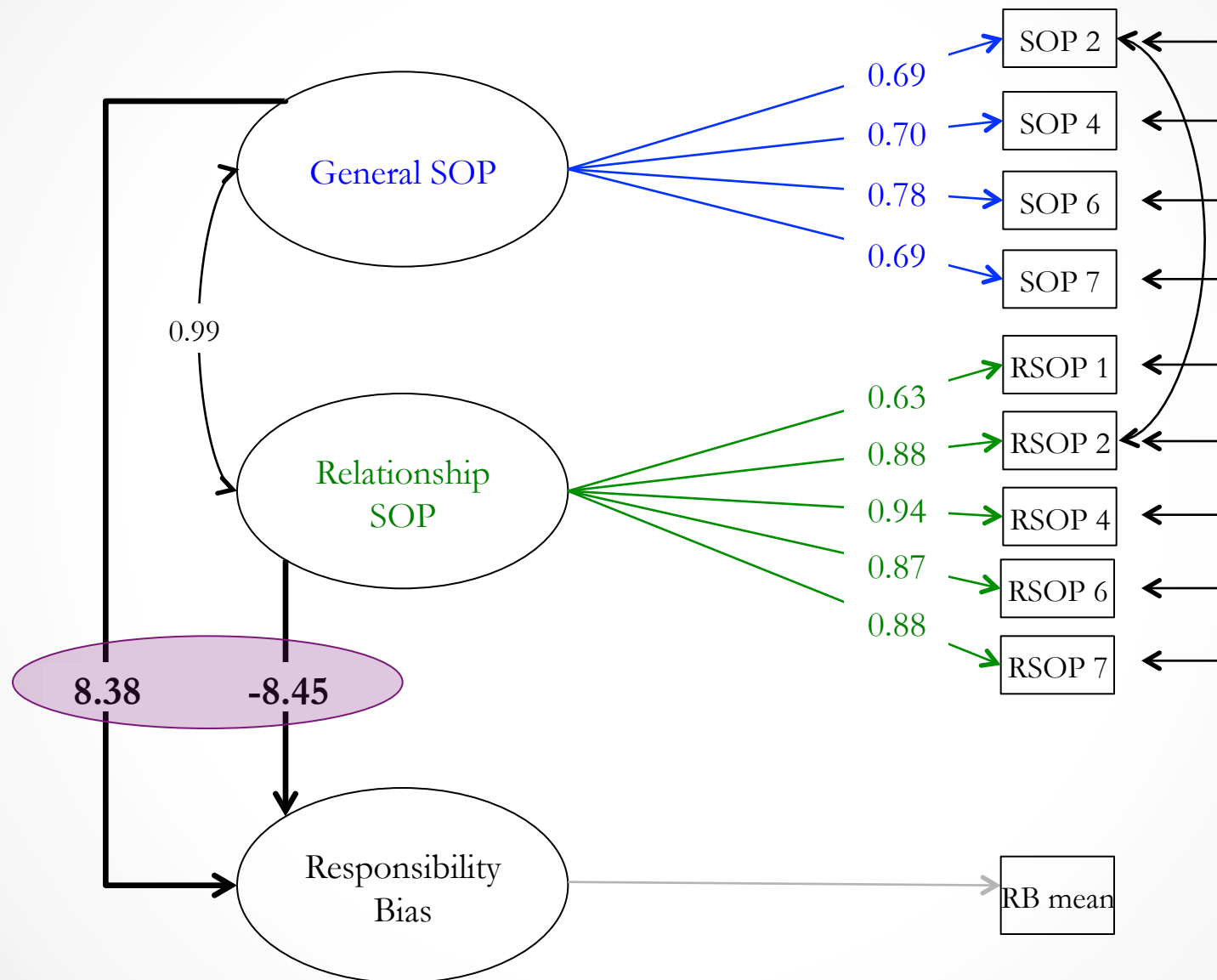
*In my relationship with **my significant other...***

1. I can get him/her to listen to what I say.
2. My wishes do not carry much weight. (r)
3. Even if I voice them, my views have little sway. (r)
4. My ideas and opinions are often ignored. (r)
5. Even when I try, I am not able to get my way. ®

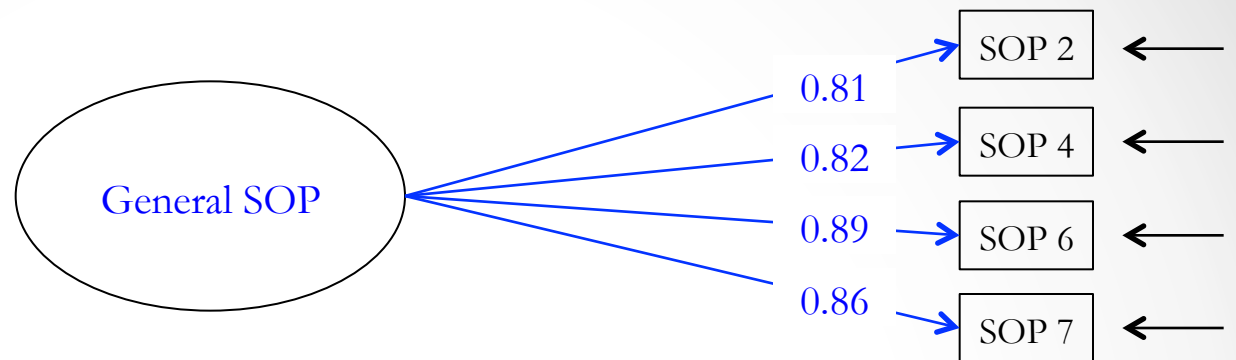
Regression of responsibility bias on general and relationship-specific SOP



Regression of responsibility bias on general and relationship-specific SOP



χ^2	31.12 ($p < .001$)
RMSEA	.16
CFI	.98
NNFI	.95
SRMR	.02



χ^2	333.95 ($p < .001$)
RMSEA	.16
CFI	.94
NNFI	.92
SRMR	.07

