#### Multilevel Equations Tested

*Note:*  $\beta$  = fixed effect; b = random effect; e = random error; j = between-person effect (Level 2); i = within-person effect (Level 1)

# 1. SV + Stressor → Appraisal and Coping (Main effects; Table 2)

Control or Coping =  $\beta_0 + b_{oj} + \beta_1 SV + \beta_2 Cohort_j + \beta_3 Gender_j + \beta_4 Stressor_academic_{ij} + \beta_4 Stressor_intrapersonal_{ij} + \beta_6 Time_{ij} + b_6 Time_{ij} + e_{ij}$ 

### 2. SV\*Stressor → Appraisal and Coping (Interaction effects; Table 2)

Control or Coping =  $\beta_0 + b_{oj} + \beta_1 SV_j + \beta_2 Cohort_j + \beta_3 Gender_j + \beta_4 Stressor_academic_{ij} + \beta_4 Stressor_academic_{ij} * SV_j + \beta_6 Stressor_intrapersonal_{ij} * SV_j + \beta_7 Time_{ij} + b_8 Time_{ij} + e_{ij}$ 

### 3. SV → Affect/Somatic Symptoms (Table S1)

Affect or Somatic Symptoms =  $\beta_0 + b_{oj} + \beta_1 SV_j + \beta_2 Cohort_j + \beta_3 Gender_j + \beta_4 Time_{ij} + b_5 Time_{ij} + e_{ii}$ 

# 4. Coping → Affect/Somatic Symptoms (Table S2)

Affect or Somatic Symptoms =  $\beta_0 + b_{oj} + \beta_1 SV_j + \beta_2 Cohort_j + \beta_3 Gender_j + \beta_4 Stress_j + \beta_5 Stress_i + \beta_6 Control_i + \beta_7 Control_i + \beta_8 Time_{ij} + b_9 Time_{ij} + e_{ij}$ 

\*\*  $\beta_6$  and  $\beta_7$  were tested separately for Control, and Problem-Focused/Meaning-Focused/Avoidance Coping. All other covariates remained the same across models.

Table S1. Regression Models Predicting Affect and Somatic Symptoms from SV History

	B (SE)	Beta
Positive Affect on		
Within-person		
Time <sup>1</sup>	-0.28 (0.05)***	-0.10
<b>Between-person</b>		
SV History (yes)	-1.97 (1.08)	-0.10
Gender (not male)	-2.10 (1.11)	-0.10
Intercept	26.55 (1.38)***	-
Negative Affect on		
Within-person		
Time	-0.16 (0.05)***	-0.06
<b>Between-person</b>		
SV History (yes)	1.65 (0.94)	0.09
Gender (not male)	-0.13 (0.97)	-0.01
Intercept	19.32 (1.20)***	
<b>Somatic Symptoms on</b>		
Within-person		
Time	-0.17 (0.03)***	-0.12
Between-person		
SV History (yes)	1.27 (0.50)*	0.12
Gender (not male)	1.50 (0.51)**	0.14
Intercept	10.28 (0.63)*** -	

<sup>&</sup>lt;sup>1</sup>Time is mean-centered; thus, intercepts should be interpreted as representing predicted levels of affect and somatic symptoms at the middle of the study.

*Note:* All continuous person-level predictors are grand-mean centered. Analyses of daily variables include only days when a worst daily stressor was identified (n=2238; N=255).

<sup>&</sup>lt;sup>2</sup>Although all models control for between-person cohort effects (timing of study group) as a categorical variable, these coefficients are not reported here for parsimony.

<sup>\*\*\*</sup>p<.001, \*\*p<.01, \*p<.05

*Table S2.* Regression Models Predicting Affect and Somatic Symptoms from Appraisals and Coping

	B (SE)	Beta
Positive Affect on	D (SL)	Beta
Within-person		
Control Appraisal	0.38 (0.07)***	0.07
Stress Appraisal	-0.42 (0.08)***	-0.07
Time <sup>1</sup>	-0.26 (0.05)***	-0.09
Between-person		
Control Appraisal	1.03 (0.41)*	0.12
Stress appraisal	-0.74 (0.41)	-0.09
Gender (not male)	-2.61 (1.07)*	-0.12
Intercept	26.64 (1.35)***	-
Positive Affect on		
Within-person		
Problem-Focused Coping	0.47 (0.06)***	0.10
Stress appraisal	-0.57 (0.08)***	-0.09
Time	-0.24 (0.05)***	-0.09
Between-person		
Problem-focused coping	1.85 (0.29)***	0.31
Stress appraisal	-1.64 (0.40)***	-0.20
Gender (not male)	-2.34 (1.01)*	-0.11
Intercept	26.73 (1.27)***	-
Positive Affect on		
Within-person		
Meaning-Focused Coping	0.54 (0.07)***	0.09
Stress appraisal	-0.44 (0.08)***	-0.07
Time	-0.23 (0.05)***	-0.08
Between-person		
Meaning-focused coping	2.19 (0.32)***	0.31
Stress appraisal	-1.25 (0.38)***	-0.15
Gender (not male)	-1.84 (1.00)	-0.09
Intercept	25.71 (1.26)***	-
Positive Affect on		
Within-person		
Avoidance Coping	-0.00 (0.10)	0.01
Stress appraisal	-0.40 (0.08)***	-0.06
Time	-0.29 (0.05)***	-0.10

Between-person		
Avoidance coping	0.10 (0.38)	0.01
Stress appraisal	-0.92 (0.43)*	-0.11
Gender (not male)	-2.45 (1.09)*	-0.12
Intercept	26.56 (1.37)***	-
Negative Affect on		
Within-person		
Control Appraisal	0.12 (0.06)	0.02
Stress Appraisal	1.41 (0.07)***	0.25
Time	-0.12 (0.04)**	-0.05
Between-person		
Control Appraisal	-0.12 (0.30)	-0.02
Stress appraisal	3.20 (0.30)***	0.42
Gender (not male)	-0.02 (0.79)	0.00
Intercept	19.51 (1.00)***	-
Negative Affect on		
Within-person		
Problem-Focused Coping	0.18 (0.05)***	0.04
Stress appraisal	1.34 (0.07)***	0.24
Time	-0.11 (0.04)**	-0.04
Between-person		
Problem-focused coping	0.54 (0.23)*	0.10
Stress appraisal	2.97 (0.31)***	0.39
Gender (not male)	0.03 (0.78)	0.00
Intercept	19.62 (0.99)***	-
Negative Affect on		
Within-person		
Meaning-Focused Coping	0.07(0.06)	0.01
Stress appraisal	1.41 (0.07)***	0.25
Time	-0.12 (0.04)**	-0.05
Between-person		
Meaning-focused coping	0.23 (0.26)	0.04
Stress appraisal	3.15 (0.30)***	0.42
Gender (not male)	0.07(0.80)	0.00
Intercept	19.44 (1.00)***	-
Negative Affect on		
Within-person		
Avoidance Coping	0.69 (0.08)***	0.10
Stress appraisal	1.32 (0.07)***	0.24

Time	-0.12 (0.04)***	-0.05
Between-person		
Avoidance coping	2.46 (0.23)***	0.38
Stress appraisal	2.44 (0.26)***	0.32
Gender (not male)	-0.08 (0.66)	0.00
Intercept	20.30 (0.83)***	-
Somatic Symptoms on		
Within-person		
Control Appraisal	-0.04 (0.04)	-0.01
Stress Appraisal	0.28 (0.04)***	0.09
Time	-0.17 (0.03)***	-0.12
Between-person		
Control Appraisal	-0.29 (0.18)	-0.07
Stress Appraisal	0.93 (0.18)***	0.22
Gender (not male)	1.76 (0.47)***	0.16
Intercept	10.27 (0.60)***	-
Somatic Symptoms on		
Within-person		
Problem-Focused Coping	0.04 (0.03)	0.02
Stress appraisal	0.26 (0.04)***	0.08
Time	-0.16 (0.04)***	-0.11
Between-person	` ,	
Problem-focused coping	-0.03 (0.14)	-0.01
Stress appraisal	0.99 (0.19)***	0.23
Gender (not male)	1.73 (0.48)***	0.16
Intercept	10.28 (0.60)***	-
Somatic Symptoms on		
Within-person		
Meaning-Focused Coping	0.07 (0.04)	0.03
Stress appraisal	0.26 (0.04)***	0.08
Time	-0.16 (0.03)***	-0.11
Between-person		
Meaning-focused coping	-0.00 (0.15)	0.00
Stress appraisal	0.97 (0.18)***	0.23
Gender (not male)	1.71 (0.48)***	0.16
Intercept	10.29 (0.60)***	-
Somatic Symptoms on		
Within-person		
Avoidance Coping	0.31 (0.05)***	0.08

Stress appraisal	0.24 (0.04)***	0.08
Time	-0.16 (0.03)***	-0.11
Between-person		
Avoidance coping	1.12 (0.15)***	0.31
Stress appraisal	0.63 (0.17)***	0.15
Gender (not male)	1.70 (0.44)***	0.16
Intercept	10.65 (0.55)***	-

<sup>&</sup>lt;sup>1</sup>Time is mean-centered; thus, intercepts should be interpreted as representing predicted levels of affect and somatic symptoms at the middle of the study.

*Note:* All continuous person-level predictors are grand-mean centered. Analyses of daily variables include only days when a worst daily stressor was identified (n=2238; N=255).

<sup>&</sup>lt;sup>2</sup>Although all models control for between-person cohort effects (timing of study group) as a categorical variable, these coefficients are not reported here for parsimony.

Table S3. Between-Person Mediation Model

	Estimate [95% CI]	Proportion Mediated [95% CI]
SV-Meaning-Positive		
Indirect Effect (AB)	-0.75 [-1.52, -0.03]	0.39 [-0.15, 2.01]
Direct Effect (C')	-1.18 [-3.17, 0.61]	
Total Effect	-1.93 [-4.12, -0.14]	

Notes: \*\*\*p<.001, \*\*p<.05. Bold text indicates significant indirect effect (i.e., 95% confidence interval does not include 0) indirect effects.

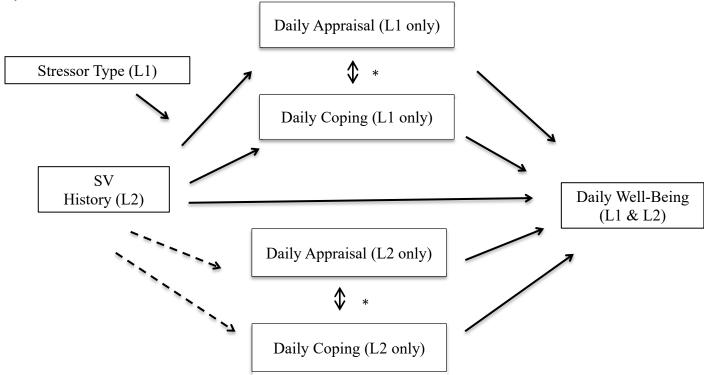
Table S4. Within-Person Mediation Models

	cison wiedlation		oportion Mediated [95% CI]
SV-Control-Posi	tive <sup>1</sup>		
Interpersonal	Indirect (AB)	0.05 [-0.03, 0.15]	-0.02 [-0.15, 0.03]
	Direct (C')	-2.06* [-4.04, -0.12]	
	Total (C)	-2.00* [-3.94, -0.11]	
Academic	Indirect (AB)	0.18*** [0.05, 0.31]	-0.10 [-2.25, 0.27]
	Direct (C')	-1.72 [-3.40, 0.75]	
	Total (C)	-1.54 [-3.25, 0.81]	
Intrapersonal	Indirect (AB)	-0.10***[-0.21, -0.02]	0.04 [-1.21, 0.21]
	Direct (C')	-1.71 [-3.72, 0.40]	
	Total (C)	-1.81 [-3.81, 0.31]	
SV-Problem-Pos			
Interpersonal	Indirect (AB)	0.13 [0.00, 0.29]	-0.06 [-0.34, 0.00]
	Direct (C')	-2.22*** [-4.20, -0.50]	
	Total (C)	-2.09* [-4.03, -0.38]	
Academic	Indirect (AB)	0.04 [-0.20, 0.22]	-0.04 [-2.17, 0.63]
	Direct (C')	-1.36 [-3.67, 0.55]	
	Total (C)	-1.31 [-3.66, 0.50]	
Intrapersonal	Indirect (AB)	-0.16* [-0.30, -0.03]	0.10 [-0.68, 1.22]
	Direct (C')	-1.15 [-3.60, 0.81]	
	Total (C)	-1.31 [-3.72, 0.60]	
SV-Problem-Neg	gative		
Interpersonal	Indirect (AB)	0.06***[0.01, 0.14]	0.03* [0.00, 0.54]
	Direct (C')	1.65 [0.01, 3.43]	
	Total (C)	1.70* [0.08, 3.47]	
Academic	Indirect (AB)	0.03 [-0.05, 0.11]	0.02 [-0.02, 0.09]
	Direct (C')	2.01* [0.59, 3.86]	
	Total (C)	2.04* [0.61, 3.89]	
Intrapersonal	Indirect (AB)	-0.07*** [-0.15, -0.02]	-0.04* [-0.36, -0.01]
	Direct (C')	1.58* [0.07, 3.05]	
	Total (C)	1.51* [0.02, 3.01]	

*Notes:* \*\*\*p< .001, \*\*p< .01, \*p< .05. Bold text indicates significant indirect effects (i.e., 95% confidence interval does not include 0).

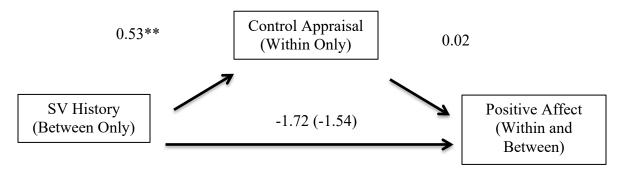
<sup>&</sup>lt;sup>1</sup>Within-person mediation path run without random effect of time to improve model fit

Figure S1. Theoretical Moderated Covariance Model of Coping and Well-Being in a Causal System



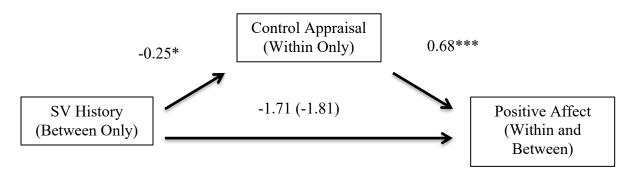
*Note:* Dotted line indicates hypothesized null between-person effect. \*Indicates theoretical path not tested in mediation models

*Figure S2.* Significant Within-Person Covariance Model 2: L1 SV→ control → positive affect (academic)



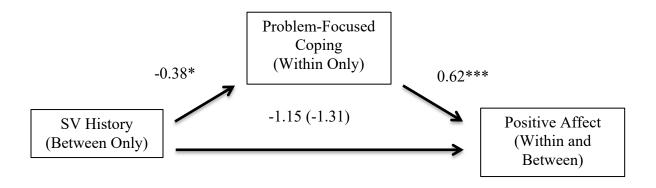
Note: \*\*\*p<.01, \*p<.05. Path values represent unstandardized coefficients. The value in parentheses represents the total effect of SV history on positive affect on days when academic stressors were selected as most stressful, whereas the value outside of the parentheses represents the direct effect. Total and direct were extracted from bootstrapped mediation analyses, whereas paths between SV history, control appraisal, and affect were extracted from separate regression models.

*Figure S3*. Significant Within-Person Covariance Model 3: L1 SV→ control → positive affect (intrapersonal)



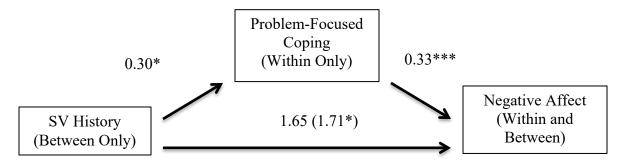
*Note:* \*\*\*p<.001, \*\*p<.01, \*p<.05. Path values represent unstandardized coefficients. The value in parentheses represents the total effect of SV history on positive affect on days when intrapersonal stressors were selected as most stressful, whereas the value outside of the parentheses represents the direct effect. Total and direct were extracted from bootstrapped mediation analyses, whereas paths between SV history, control appraisal, and affect were extracted from separate regression models.

*Figure S4.* Significant Within-Person Covariance Model 6: SV→ problem → positive affect (intrapersonal)



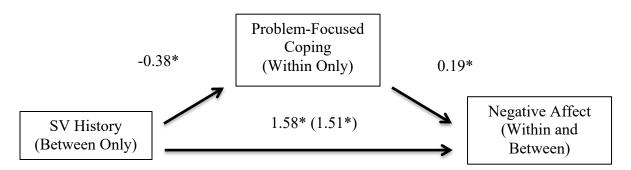
Note: \*\*\*p<.001, \*\*p<.01, \*p<.05. Path values represent unstandardized coefficients. The value in parentheses represents the total effect of SV history on positive affect on days when intrapersonal stressors were selected as most stressful, whereas the value outside of the parentheses represents the direct effect. Total and direct were extracted from bootstrapped mediation analyses, whereas paths between SV history, control appraisal, and affect were extracted from separate regression models.

*Figure S5.* Significant Within-Person Covariance Model 7: SV→ problem → negative affect (interpersonal)



Note: \*\*\*p<.001, \*\*p<.01, \*p<.05. Path values represent unstandardized coefficients. The value in parentheses represents the total effect of SV history on positive affect on days when interpersonal stressors were selected as most stressful, whereas the value outside of the parentheses represents the direct effect. Total and direct were extracted from bootstrapped mediation analyses, whereas paths between SV history, control appraisal, and affect were extracted from separate regression models.

*Figure S6.* Significant Within-Person Covariance Model 6: SV→ problem → negative affect (intrapersonal)



*Note:* \*\*\*p<.001, \*\*p<.01, \*p<.05. Path values represent unstandardized coefficients. The value in parentheses represents the total effect of SV history on positive affect on days when intrapersonal stressors were selected as most stressful, whereas the value outside of the parentheses represents the direct effect. Total and direct were extracted from bootstrapped mediation analyses, whereas paths between SV history, control appraisal, and affect were extracted from separate regression models.