


# Social and Economic Political Ideology Consistently Operate as Mutual Suppressors: Implications for Personality, Social, and Political Psychology

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Thomas H. Costello<sup>1</sup>  and Scott O. Lilienfeld<sup>1,2</sup>

## Abstract

Right–left political views can be decomposed into distinct economic and social dimensions that bear differing relations with external criteria. In three community samples (total  $N = 1,487$ ), we identified replicable suppressor situations in which statistically controlling for either social or economic political ideology increased the other ideology dimension’s relations with variables reflecting cognitive rigidity, authoritarianism, dangerous worldview, and lethal partisanship. Specifically, positive bivariate relations between social conservatism and these outcomes were enhanced after controlling for economic conservatism, whereas, after controlling for social conservatism, positive bivariate relations between economic conservatism and external criteria became negative and negative bivariate relations were enhanced. We identified similar, albeit less consistent, suppressor phenomena for general personality. Taken together, our results suggest that social and economic conservatism differ substantially in their psychological implications, and that following statistical control, these differences emerge in samples in which social and economic conservatism are highly positively correlated.

## Keywords

political psychology, suppression, social and economic conservatism, authoritarianism, personality

In many nations around the world, political discourse is organized around an overarching left/liberal versus right/conservative ideological dimension (Jost et al., 2009). This dimension traces its roots to the early stages of the French Revolution, with right versus left reflecting preferences for stability (right; i.e., the aristocracy, seeking to preserve France’s hereditary monarchy) versus change (left; i.e., individuals advocating for a new regime). The ideals of “Liberté, égalité, fraternité” and opposition to authority, hierarchy, and tradition soon came to typify the political left. Over time, however, these distinctions have evolved, reflecting a broad swath of ideals and worldviews that often manifest idiosyncratically, or even contradictorily, across cultures and contexts (Caprara & Vecchione, 2018).

Scholars have long sought to understand the psychological characteristics that predict individuals’ willingness to embrace broad-based left- or right-wing political beliefs (Adorno et al., 1950). One long-standing research tradition, for instance, argues that right-wing policy preferences accord with needs for certainty and safety and, as such, coalesce to form a conservative “syndrome” (Hetherington & Weiler, 2018; Jost et al., 2003). Relatedly, Jost and colleagues (2013, p. 1) argued that all manner of conservative ideologies explain the world in a manner that justifies the legitimacy of the prevailing

sociocultural system, and preferences for such system justification are the “glue” that holds both left- and right-wing ideologies together.

Nevertheless, increasing evidence calls into question whether the right–left dimension adequately captures the complexity of individual differences in the political domain (Duckitt & Sibley, 2009; Lameris et al., 2018; Malka et al., 2017; Pan & Xu, 2018). Right–left political views can be decomposed into factorially distinct economic and social content subdimensions that may bear differing and sometimes opposing relations with personality traits and cognitive styles (Johnston & Ollershaw, 2020). *Social conservatism* chiefly concerns traditional values, cultural rules, and norms and is consistently positively related to certainty- and safety-related variables (Van Hiel et al., 2016). In contrast, *economic conservatism*,

<sup>1</sup> Department of Psychology, Emory University, Atlanta, GA, USA

<sup>2</sup> Melbourne School of Psychological Sciences, University of Melbourne, Victoria, Australia

## Corresponding Author:

Thomas H. Costello, Department of Psychology, Emory University, 36 Eagle Row, Atlanta, GA 30322, USA.

Email: thcoste@emory.edu

which chiefly concerns opposition to redistributive and regulatory economic interventions, has sometimes manifested null or even negative relations with certainty- and safety-related variables, including authoritarianism (Cizmar et al., 2014), threat sensitivity (Hibbing et al., 2014), needs for closure and structure (Van Hiel et al., 2004; Yilmaz et al., 2016), and reversed levels of (a) need for cognition (Feldman & Johnston, 2014), (b) openness to experience (Carney et al., 2008), and (c) cognitive ability (Carl, 2014).

Such evidence highlights the possibility that right-wing social attitudes and left-wing economic attitudes fulfill similar needs. Just as maintaining tradition fosters a sense of certainty and safety, the promise of an economic “safety net” may mitigate uncertainties tied to living in a free-market economy. Relatedly, some authors have suggested that motivations to sacrifice personal freedoms for governmental protection provide the psychological link between left-wing economic policies and right-wing social policies (Malka et al., 2017). In contrast, some studies suggest roughly equivalent relationships between social and economic conservatism, on the one hand, and external criteria, on the other (Azevedo et al., 2019; Cornelis & Van Hiel, 2006; Everett, 2013; Sterling et al., 2016), especially in politically engaged samples. Thus, whether and to what extent social and economic ideology have common psychological underpinnings remain undetermined (Federico, 2020).

One complicating factor that may partially account for these mixed findings is that bottom-up processes, such as psychological needs, are not the sole drivers of political ideology. Top-down processes, such as socialization, expressive partisanship, group membership, and partisan sorting, may also play critical roles (Converse, 1964; Kalmoe, 2020). Such top-down influences may lead large portions of the public, including people who are dispositionally inclined toward right-wing social policies and left-wing economic policies (or vice versa), to be tribalistically inclined to self-identify as liberal (or conservative) on both social and economic issues, thereby artificially inflating the correlation between social and economic ideology. In other words, participants’ partisan identification with the global terms “conservative” or “liberal,” rather than their dispositional tendency to support conservative or liberal policies per se, may introduce statistical noise that renders the unique elements of social and economic ideology more difficult for researchers to discern (Malka & Lelkes, 2010; Morris et al., 2008).

Accordingly, statistically controlling for shared variance between social and economic ideology may serve to “clear the brush,” clarifying social–economic divergences by minimizing respondent error stemming from top-down determinants of political affiliation. More specifically, social and economic ideology may be associated with suppressor effects, in which statistically controlling for one dimension increases (rather than decreases, as is observed in more typical cases of statistical redundancy) the magnitude of the other dimension’s relation with relevant external criteria (Nickerson, 2008; Paulhus et al., 2004). As observed by Watson et al. (2013), suppressor

effects often help to bring “into clearer focus opposing elements that are inherent—but largely hidden—in the measure’s overall score” (p. 929) because they frequently result from the removal of nonspecific shared variance.

Replicable suppressor phenomena have traditionally been considered rare in psychology (e.g., Wiggins, 1973). Nevertheless, growing evidence suggests that the strategy of mutually controlling for complementary constructs is helpful for disentangling overlapping constructs, such as self-esteem and narcissism (Orth et al., 2016; Paulhus et al., 2004), shame and guilt (Orth et al., 2006; Paulhus et al., 2004; Tracy & Robins, 2006), authentic and hubristic pride (Tracy et al., 2009), collective narcissism and positive in-group identification (de Zavala et al., 2013), and adaptive and maladaptive dimensions of psychopathic personality (Lilienfeld et al., 2019). In the present studies, we investigate the hypothesis that the potentially divergent correlates of social and economic conservatism will be similarly clarified when the two constructs are mutually controlled for one another (i.e., differential relations between social and economic ideology will become larger after mutual control).

We generally expect to find *mutual suppression*, which occurs when two positively correlated predictors show larger regression weights after they are included in the same regression (Nickerson, 2008). Specifically, in cases where social and economic conservatism both manifest positive (or negative) bivariate regression coefficients with a given outcome, we expect to find *mutual net suppression* (Cohen & Cohen, 1975; Conger, 1974; Nickerson, 2008; Paulhus et al., 2004), an instance of mutual suppression that occurs when one of the two partial regression coefficients shows a sign opposite to its corresponding bivariate coefficient. Nonmutual net suppression, which is net suppression where one of the two partial coefficients does not account for more variance than its corresponding bivariate coefficient (Nickerson, 2008), is also plausible and would be consistent with our expectations. Moreover, in cases where social and economic conservatism manifest bivariate regression coefficients with opposite signs, we expect to find *cooperative suppression*, such that controlling for their overlap boosts both regression weights. Table 1 presents examples of each type of suppression.

## The Present Investigation

Using three community samples, we sought to identify instances of suppression for social and economic political ideology using a broad swath of theoretically relevant external criteria, including variables reflecting cognitive rigidity, authoritarianism, dangerous worldview, and lethal partisanship. We predict that statistically controlling for economic conservatism will enhance positive bivariate relations between social conservatism, on the one hand, and authoritarianism, rigidity, and dangerous worldview, on the other. We also predict that statistically controlling for social conservatism will either (a) enhance negative bivariate relations between economic conservatism and these variables (i.e., cooperative

**Table 1.** Examples of Suppression Situations.

Step 1 Predictor	Step 2 Predictor	Step 1 (Bivariate Coefficient)		Step 2 (Partial Coefficients)		Type of Suppression	Mutual Suppression?
		Social $\beta$	Economic $\beta$	Social $\beta$	Economic $\beta$		
Economic	Social	—	.30	.45	-.45	Net	✓
Social	Economic	.30	—				
Economic	Social	—	.30	.45	-.20	Net	X
Social	Economic	.30	—				
Economic	Social	—	-.30	.45	-.45	Cooperative	✓
Social	Economic	.30	—				
Economic	Social	—	.00	.45	-.15	Classical	✓
Social	Economic	.30	—				

suppression) or (b) reveal negative partial regression coefficients for positive bivariate coefficients (i.e., net suppression). Replicable suppression effects, if present in our data, would suggest that the potentially divergent psychological origins of social and economic ideology can be ascertained even in samples in which social and economic conservatism manifest pronounced positive zero-order correlations.

Further, given the extensive research literature examining relations between personality and political ideology, we examine suppressor phenomena using the Honesty-Humility, Emotionality, Extroversion, Agreeableness, Conscientiousness, Openness to Experience (HEXACO) model of personality. The HEXACO model (Ashton & Lee, 2007) overlaps with, but differs in important ways from, the better-known five-factor model (FFM; Costa & McCrae, 1995). Specifically, unlike low FFM Agreeableness, low HEXACO Agreeableness entails ill temper, which also defines the low pole of FFM Neuroticism. Emotionality, unlike FFM Neuroticism, includes sentimentality, which also relates to FFM Agreeableness. Further, Honesty-Humility has no direct parallel in the FFM, although some of Honesty-Humility's defining traits are incorporated by FFM Agreeableness.

## Method

### Participants

In all three samples, participants were recruited using Amazon's Mechanical Turk (MTurk) platform. Research suggests that MTurk data are comparable in quality to data from other convenience samples (Buhrmester et al., 2018; cf. Chmielewski & Kucker, 2020). Still, it is necessary to screen MTurk data for errant responding. To that end, we excluded participants on the basis of failure to correctly answer two or more attention check questions. We aimed to collect approximately 500 participants in each sample. To evaluate statistical power, we implemented a Monte Carlo power analysis for indirect (i.e., suppression) effects using the procedures described in Schoemann et al. (2017). We specified 5,000 replications with 10,000 Monte Carlo draws per replication. Using population parameters of  $r = .65$  for social and economic conservatism's correlation and  $r = .30$  for both social and economic conservatism's relation with the  $Y$  variable suggested that using 500

participants ensures statistical power with a lower limit of 87% for the hypothesized indirect (i.e., suppression) effect. We also used parameters consistent with cooperative suppression (i.e., social conservatism's correlation with  $Y = .30$ , economic conservatism's correlation with  $Y = -.20$ ), which yielded a statistical power approaching 100% for 500 participants.

**Sample 1.** Sample 1 comprised 489 participants ( $M_{\text{age}} = 41.1$ ,  $SD_{\text{age}} = 12.6$ ). Participants were predominantly female (53%) and White (85.5%). The plurality were Democrats (42.7%), with most others identifying as either Republicans (27.0%) or independents (24.7%). This degree of political skew is typical of online community samples (Levay et al., 2016).

**Sample 2.** Sample 2 comprised 490 participants, with an average age of 38.2 years ( $SD = 12.1$ ) and a relatively even gender split (47.9% female). Most participants identified as Republicans (26.7%), Democrats (47.8%), or independents (12.9%).

**Sample 3.** Sample 3 comprised 508 participants who were 49.8% female with a mean age of 37.7 ( $SD = 11.5$ ). Most participants (52.4%) self-identified as Democrats with a minority self-identifying as Republicans (27.4%) and fewer as independents (9.1%).

### Measures

All measures are reproduced, in full, in Online Supplemental Materials.

#### Sample 1

**Political ideology.** Political ideology was assessed using the Social and Economic Conservatism Scale (SECS; Everett, 2013), a survey of favorability toward 12 topics that are important to voters, of which six are economic (e.g., limited government) and six are social (e.g., traditional values). The SECS yields two dimensions, economic conservatism and social conservatism, which were positively correlated ( $r = .53$ ) and internally consistent ( $\alpha_s = .94$  and  $.85$ , respectively).

**Authoritarian parenting values.** Authoritarian child-rearing values were assessed with a 4-item forced-choice measure

often used in psychology and political science (Feldman & Stenner, 1997). The four items describe preferences for children who are obedient and respectful versus free-spirited and independent ( $\alpha = .67$ ).

**Dogmatism.** To assess dogmatism, we administered the *DOG Scale* (Altemeyer, 1996;  $\alpha = .92$ ), a 20-item measure of unjustified belief certainty.

**Political intolerance.** To assess political intolerance, parallel right- and left-wing versions of intolerance items were administered following procedures from Crawford and Pilanski (2014). The six items were averaged to yield a composite political intolerance score; scores were collapsed across the left and right ( $\alpha = .77$ ).

**Need for cognitive closure.** Participants completed the short version of the *Need for Closure Scale-Revised* (NFC; Roets & Van Hiel, 2011), a 15-item ( $\alpha = .88$ ) self-report measure of aversion to ambiguity and preference for concrete information.

**General personality.** We also administered the *HEXACO Personality Inventory* (HEXACO; Lee & Ashton, 2018), a 100-item measure of normal-range personality that consists of six factors: Honesty-Humility, Emotionality, Extroversion, Agreeableness, Conscientiousness, and Openness to Experience ( $\alpha$ s ranged from .86 to .90).

### Sample 2

**Political ideology.** Participants indicated the degree to which they symbolically identified as left-wing versus right-wing in the economic and social domains on Likert-type items with seven response options. Economic-social correlations were high,  $r = .76$ .

**State control versus personal freedom.** Participants viewed an empty graph, with the poles of its  $x$ -axis labeled with preferences for left- versus right-wing political policies and the poles of its  $y$ -axis labeled with preferences for a political system with substantial centralized state control versus a political system that maximizes personal and political freedom and autonomy. Participants were instructed to place themselves within each graph by moving their mouse to the position that best represents their beliefs. We ventured that the resulting coordinate data could be decomposed and that the  $y$ -axis data would be useful as a nonpartisan measure of authoritarianism.

**Dogmatism.** As in Sample 1, we administered the *DOG Scale* ( $\alpha = .85$ ). In addition to the *DOG Scale*, we constructed a semi-original measure of value-neutral dogmatism, adopting or slightly altering the wording of eight items from Rokeach's (1960) *Dogmatism (D) Scale* and adding 10 items with good face validity for Rokeach's conceptualization of dogmatism as generalized authoritarianism ( $\alpha = .80$ ; see Table S4 in Online Supplementary Material, for items and factor loadings). This modified *D Scale* manifested a large correlation with the *DOG Scale*,  $r = .49$ .

**General personality.** As in Sample 1, we administered the *HEXACO Personality Inventory* (Lee & Ashton, 2018);  $\alpha$ s ranged from .86 to .90.

### Sample 3

**Political ideology.** As in Sample 2, Participants indicated the degree to which they symbolically identified as left-wing versus right-wing in the economic and social domains. Economic-social correlations were high,  $r = .81$ .

**Authoritarian parenting values.** As in Sample 1, authoritarian child-rearing values were assessed with a 4-item forced-choice measure (Feldman & Stenner, 1997;  $\alpha = .63$ ).

**State control versus personal freedom.** The same procedures were followed as described for Sample 2.

**Extreme partisanship.** Items to assess partisan moral disengagement (five items,  $\alpha = .88$ ), political violence (four items,  $\alpha = .88$ ), and partisan schadenfreude (three items,  $\alpha = .86$ ) were adapted from Kalmoe and Mason (2019). Moral disengagement items describe the rationalization of harm toward political opponents, political violence items describe lessened restraint toward killing political opponents, and partisan schadenfreude items describe lessened sympathy toward suffering of political opponents. For purposes of clarity and to avoid double-barreled items, the items were slightly modified from their original wording (e.g., the item "Would you say [Opposing party] are a serious threat to the United States and its people, or wouldn't you go that far?" was rewritten as "[Opposing party] are a serious threat to the United States and its people.")

**Dangerous worldview.** Altemeyer's (1996) 12-item *Belief in a Dangerous World Scale* was used to assess a dangerous worldview. We modified one double-barreled item and modified another to balance potentially partisan content ( $\alpha = .88$ ).

## Mutual Suppression Analyses

We followed an analytic approach outlined by de Zavala et al. (2013) to test for mutual suppressor effects, performing a series of multiple regression analyses with social and economic political ideology as predictors and external criteria as outcomes to test our hypotheses, using bootstrapping (see Hayes, 2009) to generate point estimates, 95% confidence intervals (CIs), and effect sizes for each potential suppressor effect (analytic code available upon request). We first regressed each outcome on either social or economic conservatism (Step 1 of the regression). Next, each outcome was regressed on social and economic conservatism simultaneously (Step 2). This process was repeated, such that if social conservatism had been entered in Step 1, and economic conservatism entered in Step 2, we then estimated a regression model with economic conservatism in Step 1 and social conservatism in Step 2, revealing the extent to which economic and social conservatism are better predictors when controlling for one another. Any increases in size and/or changes in directionality of regression coefficients across Steps 1 and 2 were observed, as were any differences

in the amount of variance explained by the full model (Step 2) versus sole predictor models (Step 1).

To provide more formal tests of our mutual suppression hypotheses, we used the *PROCESS* macro (Model 4; Hayes, 2017) in SPSS to estimate 95% bias-corrected bootstrap CIs for the indirect effects of each ideology dimension (via the other dimension) on each outcome (i.e., first a mediation model with economic conservatism as the *X* variable and social conservatism as the suppressor/mediator and then a model with social conservatism as the *X* variable and economic conservatism as the suppressor/mediator). Although mediation and suppression are conceptually distinct, they are statistically related, and as such point and interval estimates of mediation effects can be adapted for use in tests of suppression (MacKinnon et al., 2000). More specifically, a mediational framework assumes that the magnitude of a relation between two variables will be reduced by statistically adjusting for a third variable (i.e., mediator) because the mediator is the causal path between the two variables. In cases where a suppression effect is present, however, the direct and indirect effect of the independent variable on the dependent variable will have opposite signs. Cases where the completely standardized indirect effects ( $ab_{cs}$ ) for social and economic conservatism are significant and display signs opposite to one another would offer evidence for suppression (Tzelgov & Henik, 1991).

## Results

Results<sup>1</sup> are presented in Tables 2–4 (unstandardized suppressor effect sizes are presented in Tables S1, S2, and S3 in Online Supplemental Materials).

### Sample 1

Of the variables that we predicted would yield cooperative or net suppressor effects, three of four demonstrated significant suppressor effects for social and/or economic conservatism. Namely, suppression was present for authoritarian parenting, political intolerance, and need for closure, whereas little evidence of suppression emerged for the DOG Scale. In the case of authoritarianism, controlling for social conservatism resulted in the initially positive relation between economic conservatism and authoritarianism becoming negative, with a significant suppression effect ( $ab_{cs} = .28$ , 95% CI [.22, .35]), while controlling for economic conservatism enhanced the positive relation between social conservatism and authoritarianism, with a significant suppression effect ( $ab_{cs} = -.06$ , 95% CI [-.11, -.01]). Similarly, controlling for social conservatism resulted in the initially positive relation between economic conservatism and need for closure becoming negative ( $ab_{cs} = .15$ , 95% CI [.09, .25]), while controlling for economic conservatism enhanced the positive relation between social conservatism and need for closure, albeit not significantly,  $ab_{cs} = -.04$ , 95% CI [-.10, .02]. Hence, net suppression was present for both authoritarianism and need for closure. Mutual suppression, however, was present only in the case of need for closure,

as the magnitude of economic conservatism's partial coefficient was not larger than its corresponding bivariate coefficient (Nickerson, 2008).

Social conservatism was initially positively related to political intolerance, whereas economic conservatism was initially negatively related to political intolerance. After controlling for economic conservatism, the positive relation for social conservatism became larger ( $ab_{cs} = -.09$ , 95% CI [-.15, -.04]). Similarly, after controlling for social conservatism, the negative relation for economic conservatism became larger ( $ab_{cs} = .08$ , 95% CI [.03, .14]). Thus, cooperative suppression emerged for political intolerance.

Our exploratory analyses with personality also yielded several significant suppressor effects. Namely, honesty-humility, emotionality, and agreeableness manifested cooperative suppressor effects. In all three cases, social conservatism's initially positive relation became larger after controlling for economic conservatism ( $ab_{cs}$  ranged from  $-.14$  to  $-.05$ ), whereas economic conservatism's initially negative relation became larger after controlling for social conservatism ( $ab_{cs}$  ranged from  $.07$  to  $.11$ ).

### Sample 2

In the second sample, all three hypothesized suppressor effects were present. For both measures of dogmatism, initially positive relations with economic conservatism became negative and increased in magnitude after controlling for social conservatism (DOG Scale  $ab_{cs} = .33$ , 95% CI [.22, .45]; D Scale  $ab_{cs} = .34$ , 95% CI [.24, .46]). Similarly, initially positive relations between social conservatism and dogmatism increased after controlling for economic conservatism (DOG Scale  $ab_{cs} = -.14$ , 95% CI [-.25, -.03]; D Scale  $ab_{cs} = -.24$ , 95% CI [-.36, -.14]). Concerning preferences for state control, an initially negative relation with social conservatism became positive and larger in magnitude after controlling for economic conservatism ( $ab_{cs} = -.25$ , 95% CI [-.19, -.08]), and an initially negative relation with economic conservatism became larger in magnitude after controlling for social conservatism ( $ab_{cs} = .17$ , 95% CI [.06, .27]). Thus, mutual suppression emerged for all three outcome variables.

The HEXACO cooperative suppression effects found in Sample 1 did not replicate in Sample 2. Also in contrast with results from Sample 1, a net suppression effect was present for conscientiousness, such that an initial positive relation between conscientiousness and social conservatism became negative, with a significant suppressor effect ( $ab_{cs} = .13$ , 95% CI [.02, .25]), whereas an initial positive relation between conscientiousness and economic conservatism became larger, but the suppressor effect was not significant ( $ab_{cs} = -.05$ , 95% CI [-.18, .06]).

### Sample 3

Of the six hypothesized suppressor effects in Sample 3, all six were present for either social or economic conservatism. Still,

Table 2. Suppressor Effects, Sample 1.

Outcome	Full Model	Step 2 Predictor	Step 2 $\Delta R^2$	Step 1		Step 2 (Mutual Control)		db <sub>cs</sub> Effect Size (Indirect Effect)		Cooperative or Net Suppression?	Mutual Suppression?
				Social $\beta$	Economic $\beta$	Social $\beta$	Economic $\beta$	PE	95% CI		
Authoritarian parenting	$F(2, 476) = 70.02, R^2 = .23, p < .001$	Social	.197**	—	.17**	.53**	-.11*	.28**	[.22, .35]	Net	X
Political intolerance	$F(2, 473) = 6.32, R^2 = .03, p = .002$	Social	.017*	.47**	—	.53**	-.11*	-.06*	[-.11, -.01]	Cooperative	✓
Dogmatism (DOG Scale)	$F(2, 476) = 13.89, R^2 = .06, p < .001$	Economic	.022**	—	-.09	.16*	-.18*	.08**	[.03, .14]	Cooperative	
Need for closure	$F(2, 476) = 14.97, R^2 = .06, p < .001$	Social	.036**	.06	—	.22**	.02	.12**	[-.15, -.04]	X	
Honesty-humility	$F(2, 475) = 4.031, R^2 = .02, p = .018$	Economic	.012*	.23**	—	.22**	.02	.01	[-.05, .07]	Net	✓
Emotionality	$F(2, 475) = 13.66, R^2 = .05, p < .001$	Social	.030**	—	.07	.28**	-.08	.15**	[.09, .25]	Net	✓
Extroversion	$F(2, 475) = 4.63, R^2 = .02, p = .010$	Economic	.008*	.24**	—	.28**	-.08	-.04	[-.10, .02]	Cooperative	✓
Agreeableness	$F(2, 475) = 2.95, R^2 = .01, p = .053$	Social	.012*	—	-.05	.14*	-.13*	.07**	[.01, .14]	Cooperative	✓
Conscientiousness	$F(2, 475) = 1.27, R^2 = .01, p = .283$	Economic	.000	.07	—	.14*	-.13*	-.07**	[-.13, -.01]	Cooperative	✓
Openness	$F(2, 475) = 24.72, R^2 = .10, p < .001$	Social	.045**	—	-.16**	.21**	-.27**	.11**	[.05, .17]	Cooperative	✓
		Economic	.006	.06	—	.21**	-.27**	-.14**	[-.20, -.08]	X	
		Social	.000	—	.10*	.11*	.05	.06*	[.00, .12]	Cooperative	✓
		Economic	.002	.13*	—	.11*	.05	.03	[-.03, .08]	Cooperative	
		Social	.012*	—	-.02	.13*	-.09	.07**	[.00, .14]	Cooperative	
		Economic	.006	.08	—	.13*	-.09	-.05	[-.11, .01]	X	
		Social	.000	—	ns	ns	ns	.04	[-.03, .10]	X	
		Economic	.003	ns	—	ns	ns	.00	[-.06, .07]	X	
		Social	.045**	—	-.22**	-.25**	-.09	.13**	[-.20, -.08]	X	
		Economic	.006	-.30**	—	-.25**	-.09	-.05	[-.11, .01]	X	

Note. Steps 1 and 2 refer to the regression model. Step 1 describes the relation between social or economic conservatism and each outcome before controlling for the other conservatism dimension. In Step 2, the conservatism dimensions are mutually controlled for one another. PE: point estimate.  
\* $p < .05$ . \*\* $p < .001$ .

**Table 3.** Suppressor Effects, Sample 2.

Outcome	Full Model	Step 2 Predictor	Step 2 $\Delta R^2$	Step 1		Step 2 (Mutual Control)		ab <sub>CS</sub> Effect Size		Cooperative or Net Suppression?	Mutual Suppression?
				Social $\beta$	Economic $\beta$	Social $\beta$	Economic $\beta$	PE	95% CI		
Dogmatism (DOG Scale)	$F(2, 458) = 26.83, R^2 = .11, p < .001$	Social Economic	.082**	—	.15**	.44**	-.18*	.33**	[.22, .45]	Net	✓
Dogmatism (D Scale)	$F(2, 454) = 22.15, R^2 = .09, p < .001$	Social Economic	.088**	.30**	—	.44**	-.18*	-.14**	[-.25, -.03]	Net	✓
State control	$F(2, 451) = 10.49, R^2 = .04, p < .001$	Social Economic	.043**	.21**	—	.45**	-.32**	-.24**	[-.36, -.14]	Cooperative	✓
Honesty-humility	$F(2, 459) = 1.54, R^2 = .01, p = .216$	Social Economic	.043**	-.03	—	.22*	-.32**	.17**	[.06, .27]	X	
Emotionality	$F(2, 459) = 10.47, R^2 = .04, p < .001$	Social Economic	.018*	-.16**	-.21**	-.00	-.21**	.00	[-.11, .10]	X	
Extroversion	$F(2, 458) = 2.60, R^2 = .01, p = .075$	Social Economic	ns	—	ns	ns	ns	-.16**	[-.27, -.04]	X	
Agreeableness	$F(2, 459) = 0.19, R^2 = .00, p = .981$	Social Economic	ns	—	ns	ns	ns	ns	ns	X	
Conscientiousness	$F(2, 459) = 3.82, R^2 = .02, p = .023$	Social Economic	.002	—	.12	-.06	.17*	-.05	[-.18, .06]	Net	X
Openness	$F(2, 458) = 31.20, R^2 = .12, p < .001$	Social Economic	.012*	.06	—	-.06	.17*	.13**	[.02, .25]	X	
			.030**	—	-.30**	-.27**	-.10	-.20**	[-.32, -.09]	X	
			.004	-.34**	—	-.27**	-.10	-.08	[-.18, .03]		

Note. Step 1 and Step 2 refer to the regression model. Step 1 describes the relation between social or economic conservatism and each outcome before controlling for the other conservatism dimension. In Step 2, the conservatism dimensions are mutually controlled for one another.  
\* $p < .05$ . \*\* $p < .001$ .

Table 4. Suppressor Effects, Sample 3.

Outcome	Full Model	Step 2 Predictor	Step 2 $\Delta R^2$	Step 1		Step 2 (Mutual Control)		ab <sub>cs</sub> Effect Size			Cooperative or Net Suppression?	Mutual Suppression?
				Social $\beta$	Economic $\beta$	Social $\beta$	Economic $\beta$	PE	95% CI			
Authoritarian parenting	$F(2, 501) = 79.18, R^2 = .24, p < .001$	Social	.096**	—	.38**	.53**	-.05	.43**	[.33, .53]	Net	X	
		Economic	.001	.49**	—	.53**	-.05	-.04	[-.14, .06]	Net	X	
State control	$F(2, 505) = 32.32, R^2 = .11, p < .001$	Social	.004	—	-.33**	.10	-.42**	.08	[-.01, .19]	Net		
		Economic	.059**	-.23**	—	.10	-.42**	-.34**	[-.45, -.23]	Cooperative	✓	
Moral disinhibition	$F(2, 503) = 4.03, R^2 = .02, p = .018$	Social	.012*	—	-.06	.19**	-.22*	.15**	[.04, .28]	Net	✓	
		Economic	.016*	.01	—	.19**	-.22*	-.17**	[-.30, -.06]	Net	✓	
Political violence	$F(2, 504) = 4.65, R^2 = .02, p = .010$	Social	.013*	—	.07	.20*	-.09	.16**	[.05, .29]	Net	✓	
		Economic	.003	.12*	—	.20*	-.09	-.08	[-.19, .04]	Net	X	
Partisan schadenfreude	$F(2, 505) = 7.82, R^2 = .03, p < .001$	Social	.001	—	-.17**	.06	-.22*	.05	[-.07, .17]	Net	✓	
		Economic	.016*	-.12*	—	.06	-.22*	-.18**	[-.29, -.06]	Net	✓	
Dangerous worldview	$F(2, 500) = 14.64, R^2 = .06, p < .001$	Social	.042**	—	.12**	.35**	-.17*	.28**	[.17, .40]	Net	✓	
		Economic	.010*	.21*	—	.35**	-.17*	-.14**	[-.25, -.02]	Net	X	
Dogmatism (D Scale)	$F(2, 491) = 27.54, R^2 = .13, p < .001$	Social	.064**	—	.26**	.43**	-.09	-.35**	[-.49, -.22]	Net	X	
		Economic	.003	.36**	—	.43**	-.09	.07	[-.05, .20]	Net		

Note. Steps 1 and 2 refer to the regression model. Step 1 describes the relation between social or economic conservatism and each outcome before controlling for the other conservatism dimension. In Step 2, the conservatism dimensions are mutually controlled for one another.

\* $p < .05$ . \*\* $p < .001$ .



only three instances of mutual suppression emerged. For moral disinhibition, net suppression was apparent, such that the initially negative relation with social conservatism became positive and larger in magnitude after controlling for economic conservatism ( $ab_{cs} = -.17$ , 95% CI  $[-.30, -.06]$ ), while the negative relation with economic conservatism became larger after controlling for social conservatism ( $ab_{cs} = .15$ , 95% CI  $[.04, .28]$ ). Similarly, for dangerous worldview, social conservatism's positive relation became larger after controlling for economic conservatism ( $ab_{cs} = -.14$ , 95% CI  $[-.25, -.02]$ ), and economic conservatism's positive relation became negative and larger in magnitude after controlling for social conservatism ( $ab_{cs} = .28$ , 95% CI  $[.17, .40]$ ). Both cases reflect mutual suppression.

For political violence, social conservatism's positive coefficient became larger after economic control, but the suppression effect was not significant ( $ab_{cs} = -.08$ , 95% CI  $[-.19, .04]$ ); in contrast, economic conservatism's positive relation became negative and larger in magnitude after social control, with a significant suppression effect ( $ab_{cs} = .16$ , 95% CI  $[.05, .29]$ ). Concerning partisan schadenfreude, social conservatism's negative relation became positive, but not larger, after controlling for economic conservatism, with a significant suppression effect ( $ab_{cs} = -.18$ , 95% CI  $[-.29, -.06]$ ), while economic conservatism's negative relation became larger after controlling for social conservatism, but the suppression effect was not significant ( $ab_{cs} = .05$ , 95% CI  $[-.07, .17]$ ).

Replicating the finding of net suppression in Sample 1, controlling for social conservatism resulted in the initially positive relation between economic conservatism and authoritarianism becoming negative, but not larger in magnitude, with a significant suppression effect ( $ab_{cs} = .43$ , 95% CI  $[.33, .53]$ ), whereas economic control increased the positive coefficient of social conservatism, but the suppression effect was not significant ( $ab_{cs} = -.04$ , 95% CI  $[-.14, .06]$ ). Replicating our findings in Sample 2, a negative relation between state control preferences and social conservatism became positive, but not larger in magnitude, after controlling for economic conservatism, with a significant suppression effect ( $ab_{cs} = -.34$ , 95% CI  $[-.45, -.23]$ ). The significant negative relation between preferences for state control and economic conservatism became larger after controlling for social conservatism, but the suppression effect was not significant ( $ab_{cs} = .08$ , 95% CI  $[-.01, .19]$ ). Also replicating Sample 2's results, net suppression was present for the D Scale, such that the significant positive relation between economic conservatism became negative, but not larger, after controlling for social conservatism ( $ab_{cs} = -.25$ , 95% CI  $[-.19, -.08]$ ). The positive relation between the D Scale and social conservatism became larger after controlling for economic conservatism, but the suppressor effect was not significant ( $ab_{cs} = -.07$ , 95% CI  $[-.20, .05]$ ).

## Discussion

Across three samples, economic and social ideology acted as mutual suppressors for the outcomes of political intolerance,

need for closure, dogmatism, preferences for state control, moral disinhibition, political violence, and dangerous worldview. Nonmutual net suppression was present in the case of authoritarian parenting and partisan schadenfreude. Taken together, these findings suggest that social and economic conservatism differ in their psychological implications (Carmines et al., 2012; Feldman & Johnston, 2014).

Consistent with observations that left-wing economic preferences and right-wing social preferences are undergirded by shared psychological mechanisms, our research revealed that economic conservatism often becomes negatively related to psychological needs for certainty and safety after controlling for shared nonspecific variance in social conservatism, while social conservatism's relations with these variables increases. These results may challenge the sufficiency of theories linking psychological mechanisms to support for a broad-based political conservatism (e.g., Jost et al., 2003) but also suggest that social conservatism's relations with various external criteria may often be underestimated in the literature.

Effect sizes were particularly large for authoritarian child-rearing values and support for state control, corroborating Malka and colleagues' (2017) speculation that motivations for governmental protection (vs. motivations for individual freedoms) may lead people to adopt culturally right-wing attitudes and economically left-wing attitudes (see also Lefkoffridi et al., 2014). Historical examples of left- versus right-wing authoritarianism also support this possibility. Highly repressive left-wing regimes in the 20th and 21st century, such as those in the Soviet Union, China, East Germany, Cambodia, and Cuba tended to emphasize communism, a primarily economic political philosophy, whereas right-wing authoritarian states such as Italy, Spain, Nazi Germany, and Chile tended to emphasize social unity, strength, and purity by exalting a nation or race above all else (Paxton, 2007). One can also cite several authoritarian regimes in which left-wing economic elements and right-wing social elements were closely intermingled, such as Libya, Syria, Iraq, and Iran.

Our findings demonstrate that "purer" indicators of social conservatism and economic conservatism are more strongly related to criterion variables than might otherwise be reported. To that end, and on a more practical note, we recommend that researchers studying the causes and correlates of political ideology measure both social and economic ideology and attempt to statistically distinguish social from economic ideology following the procedures outlined in this investigation. Even in cases where mutual suppression is not present, disentangling social from economic ideology may be informative. For instance, although regressing trait openness on social and economic ideology did not enhance the strength of either predictor, in our doing so, it became clear that social conservatism drives the negative relation between openness and global conservatism. Given that openness-conservatism relations are among the most replicated findings in political and personality psychology (Carney et al., 2008; Chirumbolo & Leone, 2010; Mondak, 2010), the possibility that this relation is largely or entirely attributable to social conservatism may have far-

reaching implications for the overlap between personality and politics.

The heterogeneity of measures of political ideology should be carefully considered in interpreting our results. In Sample 1, in which we measured social and economic political ideology by way of political issue preferences, the social–economic correlation was approximately  $r = .50$ , whereas when we assessed political ideology via symbolic identification, correlations were closer to  $r = .80$ . Notwithstanding the magnifying effects of these high correlations on any potential suppressor situations, Zell and Bernstein (2014) found evidence of disparities between political ideologies as measured by single-item self-placement relative to participants' issue preferences; participants tended to perceive themselves as more conservative than they actually were. Measures that assess substantive policy preferences, rather than political affiliation, may be better suited to capturing variation across social and economic ideology. As such, our use of single-item measures is a major limitation of findings drawn from Samples 2 and 3.

The present studies entirely relied on self-report measures, rather than laboratory-based or behavioral measures, raising the specter of mono-method bias. Future research examining social–economic suppressor phenomena in external criteria measured via observer reports, behavioral measures, and/or meta-cognitive tasks would provide more robust corroboration of our findings. Another limitation is our reliance on MTurk samples, which tend to be more liberal, educated, and politically engaged than those from the general population. Our findings might differ in a representative or right-skewed sample. For instance, given that the general population is less likely to be politically engaged than are MTurkers, the magnitude of social–economic correlations, along with the effect sizes for suppression effects, may be smaller in nationally representative data. Replication of mutual suppressor effects in more ideologically diverse samples is therefore needed.

## Conclusion

The abstract ideas comprising the left–right political spectrum are not entirely logically or psychologically coherent (Converse, 1964). Accordingly, whether one espouses “left-wing” or “right-wing” political preferences may be as much a function of tribal animus, sacred cultural values, and media pushing people to adopt simplistic positions on many political issues as it is of one's psychological features. At the very least, there are statistically unique elements of social and economic conservatism that demonstrate opposing patterns of relations with psychological variables. Moreover, per the present research, to the extent that social and economic ideology *are* organically structured due to epistemic commonalities, free-market conservatism may dovetail more with social liberalism than with social conservatism.


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## ORCID iD

Thomas H. Costello  <https://orcid.org/0000-0002-5188-3881>

## Supplemental Material

The supplemental material is available in the online version of the article.

## Note

1. Data are available in the Online Supplemental Material (<https://osf.io/6h3kq/>).

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### Author Biographies

**Thomas H. Costello** received his MA in clinical psychology from Emory University. He is currently a doctoral candidate in psychology at Emory University, training under Dr. Scott O. Lilienfeld. His research interests include the implications of personality and cognitive rigidity for political attitudes and behaviors, differences and similarities in authoritarianism across the political right and left, and psychopathic personality traits and allied “dark” traits.

**Scott O. Lilienfeld** received his doctoral degree in psychology (clinical) from the University of Minnesota in 1990. He is Samuel Candler Dobbs Professor of Psychology at Emory University in Atlanta, where he has been a faculty member since 1994. His research interests include personality disorders, psychiatric classification, evidence-based practice, and the application of scientific thinking to psychology.

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