

1 Personality and political beliefs across the lifespan

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4 Author Note

5 This project was completed as part of the EDLD Introduction to Data Science class
6 at the University of Oregon.

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Abstract

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10 Here is where we will write our abstract.

11 *Keywords:* keywords

12 Word count: X

Personality and political beliefs across the lifespan

Methods

Participants

Material

Procedure

Data analysis

We used R (Version 3.6.1; R Core Team, 2019) and the R-packages *MBESS* [R-MBESS], *dplyr* (Version 0.8.3; Wickham, François, Henry, & Müller, 2019), *forcats* (Version 0.4.0; Wickham, 2019a), *ggplot2* (Version 3.2.1; Wickham, 2016), *here* (Version 0.1; Müller, 2017), *janitor* (Version 1.2.0; Firke, 2019), *knitr* (Version 1.25; Xie, 2015), *papaja* (Version 0.1.0.9842; Aust & Barth, 2018), *psych* (Version 1.8.12; Revelle, 2018), *purrr* (Version 0.3.3; Henry & Wickham, 2019), *readr* (Version 1.3.1; Wickham, Hester, & François, 2018), *rio* (Version 0.5.16; C.-h. Chan, Chan, Leeper, & Becker, 2018), *stringr* (Version 1.4.0; Wickham, 2019b), *tibble* (Version 2.1.3; Müller & Wickham, 2019), *tidyr* (Version 1.0.0; Wickham & Henry, 2019), *tidyverse* (Version 1.2.1; Wickham, 2017), *viridis* (Version 0.5.1; Garnier, 2018a, 2018b), and *viridisLite* (Version 0.3.0; Garnier, 2018b) for all our analyses.

Results

In order to understand the relation between conservatism and personality, we first looked at Big Five personality trait (Openness to Experience, Conscientiousness, Extraversion, Agreeableness, and Emotional Stability) scores across the spectrum of Social Conservatism (Table 1) and Economic Conservatism (Table 2) scores.

To see whether there were significant relations between Social Conservatism and the Big Five, we then ran a multiple regression predicting Social Conservatism from the Big Five personality traits. A significant regression equation was found ($F(5, 125) = 5.051, p < .001$), with an adjusted R^2 of 0.135 (Table 2). Thus, personality traits taken together explained 13.48% of variance in Social Conservatism scores. Participants' predicted Social Conservatism scores were equal to $25.82 - 3.73(\text{Openness to Experience}) + 0.07(\text{Conscientiousness}) + 1.56(\text{Extraversion}) + 3.93(\text{Agreeableness}) + 4.30(\text{Emotional Stability})$. Agreeableness and Emotional Stability were significant predictors of Social Conservatism.

To see whether there were significant relations between Economic Conservatism and the Big Five, we then ran a multiple regression predicting Economic Conservatism from the Big Five personality traits. No significant regression equation was found ($F(5, 125) = 2.207, p = .058$) (Table 3). Thus, personality traits taken together did not significantly explain variance in Economic Conservatism scores. However, Openness to Experience was a significant predictor of Economic Conservatism.

To better understand the relation between social and economic conservatism, we examined the correlation between social and economic conservatism scores, and found it to be $r = 0.65$. Neither social nor economic extraversion were strongly correlated with any of the Big Five personality traits.

Discussion

References

- ## Warning in readLines(file): incomplete final line found on 'r-
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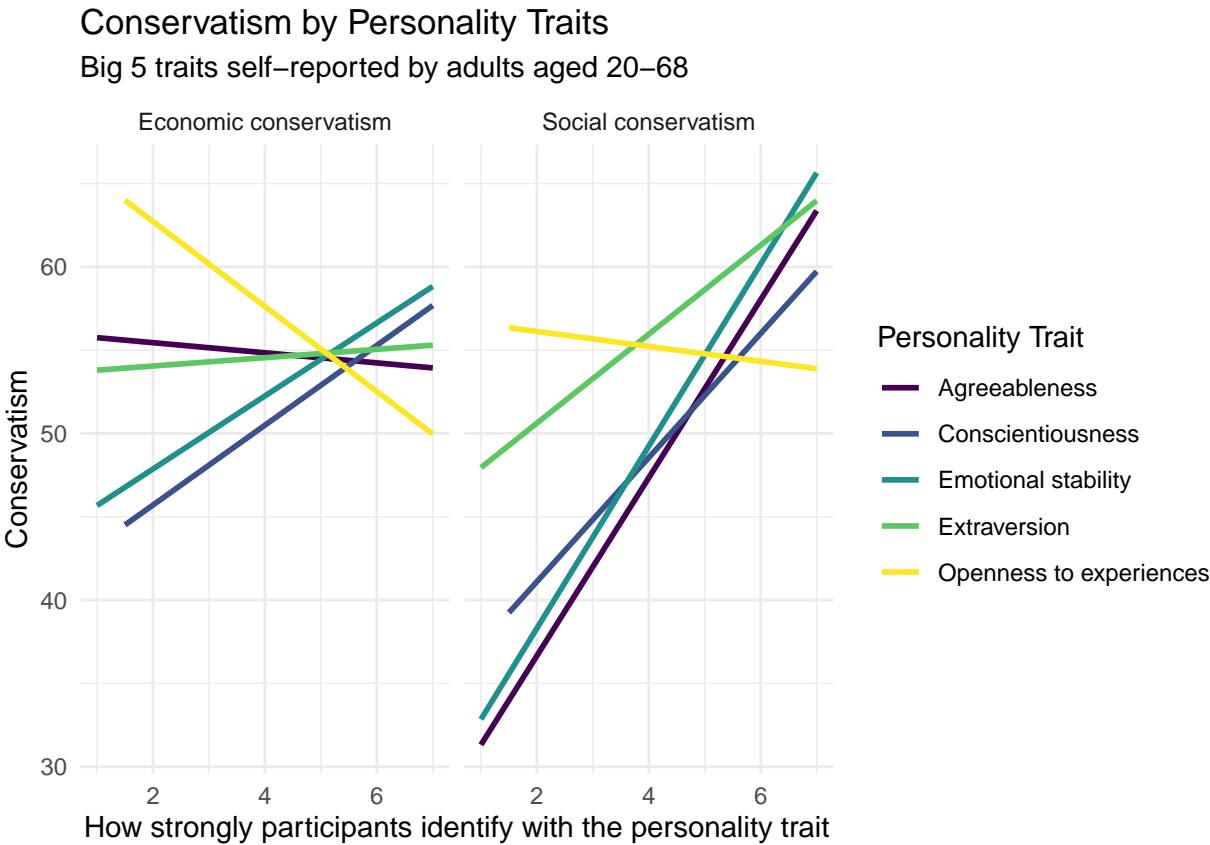
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Call: `corr.test(x = untidyeconomic_conservatism, y = untidysocial_conservatism)`
Correlation matrix [1] 0.65 Sample Size [1] 131 Probability values adjusted for multiple tests. [1] 0

To see confidence intervals of the correlations, print with the `short=FALSE` option



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Table 1

Mean Personality Trait Scores by Social Conservatism Score

personality_trait	Social Conservatism Score				
	[0-19]	[20-39]	[40-59]	[60-79]	[80-100]
Agreeableness	4.67	5.20	4.88	5.76	5.90
Conscientiousness	5.37	5.44	5.32	5.84	6.03
Emotional stability	4.07	4.38	4.82	5.50	5.57
Extraversion	2.73	3.16	3.57	3.90	3.72
Openness to experiences	4.93	5.40	5.43	5.25	5.12

Note. Personality trait scores reported on a 1-7 scale.

Table 2

Mean Personality Trait Scores by Economic Conservatism Score

personality_trait	Economic Conservatism Score				
	[0-19]	[20-39]	[40-59]	[60-79]	[80-100]
Agreeableness	6.14	5.21	5.29	5.40	5.43
Conscientiousness	5.50	5.31	5.60	5.77	6.00
Emotional stability	4.29	4.67	5.09	4.85	5.62
Extraversion	2.79	3.67	3.61	3.42	3.50
Openness to experiences	6.43	5.44	5.12	5.05	5.21

Note. Personality trait scores reported on a 1-7 scale.

Table 3

Regression Table Predicting Social Conservatism From Big-Five Personality Traits.

Predictor	<i>b</i>	95% CI	<i>t</i> (125)	<i>p</i>
Intercept	25.82	[0.07, 51.58]	1.98	.049
Openness to experiences	-3.73	[-7.50, 0.04]	-1.96	.052
Conscientiousness	0.07	[-3.98, 4.11]	0.03	.974
Extraversion	1.56	[-1.42, 4.55]	1.04	.302
Agreeableness	3.93	[0.69, 7.17]	2.40	.018
Emotional stability	4.30	[0.70, 7.91]	2.37	.020

Note. Residual standard error: 25.13 on 125 degrees of freedom.

Multiple R-squared: 0.168, Adjusted R-squared: 0.135. F(5,

125): 5.051, p-value: 0.0003.

Table 4

Regression Table Predicting Economic Conservatism From Big-Five Personality Traits.

Predictor	<i>b</i>	95% CI	<i>t</i> (125)	<i>p</i>
Intercept	56.54	[34.71, 78.37]	5.13	< .001
Openness to experiences	-3.79	[-6.98, -0.59]	-2.35	.021
Conscientiousness	1.78	[-1.65, 5.20]	1.03	.307
Extraversion	0.61	[-1.92, 3.14]	0.48	.632
Agreeableness	-1.13	[-3.88, 1.61]	-0.82	.415
Emotional stability	2.34	[-0.71, 5.39]	1.52	.131

Note. Residual standard error: 21.3 on 125 degrees of freedom.

Multiple R-squared: 0.081, Adjusted R-squared: 0.044. $F(5, 125)$:

2.207, *p*-value: 0.058.

Table 5

Correlation Matrix for Conservatism and Big Five Personality Traits

	Economic conservatism	Social conservatism	Agreeableness	Conscientiousness	Openness to experiences	Extraversion	Emotional stability
Economic conservatism	1						
Social conservatism	0.65	1					
Agreeableness	-0.02	0.29	1				
Conscientiousness	0.14	0.18	0.28	1			
Openness to experiences	-0.15	-0.02	0.2	0.18	1		
Extraversion	0.02	0.17	0.2	0.12	0.44	1	
Emotional stability	0.16	0.33	0.35	0.54	0.28	0.42	1

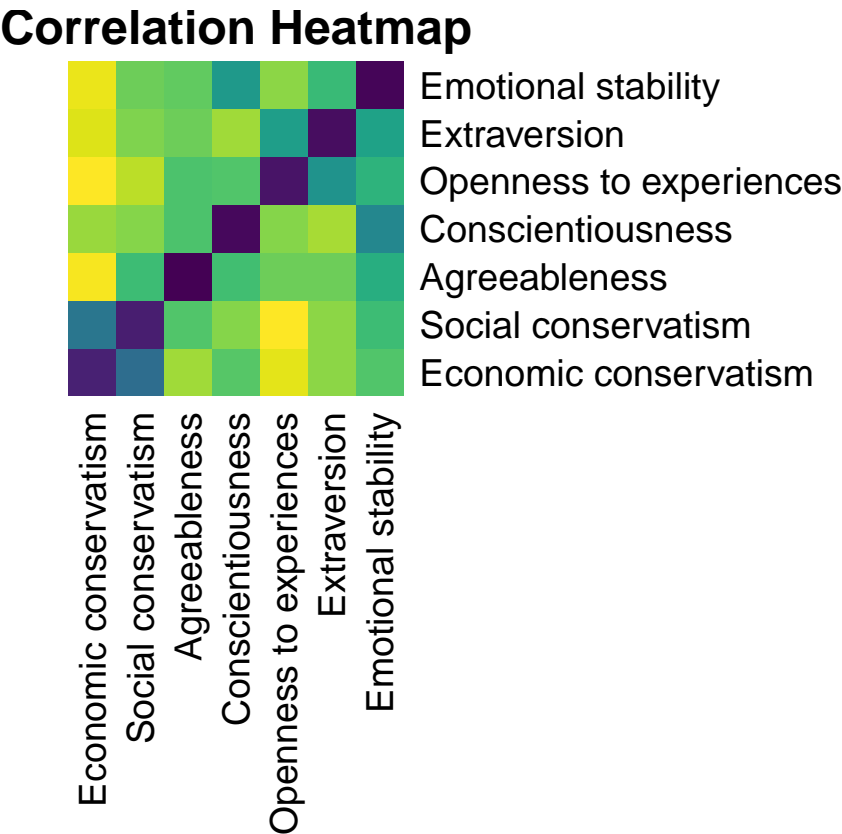


Figure 1