EVS 2017 Data Review

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2024-03-09

According to the [website]: The European Values Study is a large-scale, cross-national and longitudinal survey research program on how Europeans think about family, work, religion, politics, and society. Repeated every nine years in an increasing number of countries, the survey provides insights into the ideas, beliefs, preferences, attitudes, values, and opinions of citizens all over Europe.

Beginning steps were to create an account with the aforementioned website in order to extract either the SPSS or STATA file. In this case, we downloaded the STATA file in order to create an EVS 2017 analysis. The original data set had hundreds of columns to choose from however, variables of interest were as follows:

- 1. Respondent's age (continuous)
- 2. Respondent's country (categorical)
- 3. Respondent's education (categorical)
- 4. Respondent's sex (categorical)
- 5. Respondent's opinion on if jobs are scarce should national citizens have priority over immigrants (categorical)
- 6. Respondent's opinion on if a child suffers when the mother is working (categorical)

Table 1 - Categorical Variable Descriptive Statistics

Table 1: Descriptive Summary of Categorical Variables

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Variable	Category	Frequency	Percentage
country	Albania	1435	2.4142804
country	Armenia	1500	2.5236381
country	Austria	1644	2.7659073
country	Azerbaijan	1800	3.0283657
country	Belarus	1548	2.6043945
country	Bosnia and Herzegovina	1724	2.9005014
country	Bulgaria	1558	2.6212187
country	Croatia	1487	2.5017665
country	Czechia	1811	3.0468724
country	Denmark	3362	5.6563141
country	Estonia	1304	2.1938827
country	Finland	1199	2.0172280
country	France	1870	3.1461355
country	Georgia	2194	3.6912413
country	Germany	2170	3.6508631
country	Great Britain	1788	3.0081766
country	Hungary	1514	2.5471920

country Italy 22.77 3.8308826 country Lithuania 1438 2.2460379 country Montenegro 1003 1.6874727 country North Macedonia 1117 1.8792692 country North Macedonia 1117 1.8792692 country Poland 1352 2.2746391 country Portugal 1215 2.0441468 country Romania 1613 2.7137521 country Romania 1613 2.7137521 country Romania 1613 2.7137521 country Romania 1613 2.7137521 country Russia 1825 3.0704263 country Spain 1209 2.0340523 country Sweden 1194 2.0088159 country Sweden 1194 2.0088159 country Wkraine 1612 2.712697 country Wkraine 1612 2.712697 coun	country	Iceland	1624	2.7322588
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jobs_are_scarce neither agree nor disagree 9062 15.2461388	jobs_are_scarce	multiple answers Mail	1	0.0016824
	jobs_are_scarce	neither agree nor disagree	9062	15.2461388
jobs_are_scarce no answer 182 0.3062014	jobs_are_scarce	no answer	182	0.3062014

This table shows categorical variables with their respective variable, category, frequency and percentage. We can observe count totals within each category as well as percentages of total response by type. Technically, "jobs are scarce" and "child suffers" could have been converted from categorical (since they are ordinal) to continuous (which we will do before running the regression model). However, in order to have

more meaningful and easy to interpret values for our readers, we decided best to keep them true to form (categorical).

Table 2 - Continuous Variable Descriptive Statistics

Table 2: Descriptive Statistics for Age

Mean	SD	Min	25% Quantile	Median	75% Quantile	Max
49.78912	17.79272	18	35	50	64	82

Age is our only continuous variable. However, within the age column was "82 and older". This response was changed to equal 82. Thus, when we see 82 the respondent's age can be considered greater than or equal to 82. Hence, the maximum age of 82. Our results show a mean age of roughly 50, an s.d. of nearly 18, with a minimum age of 18.

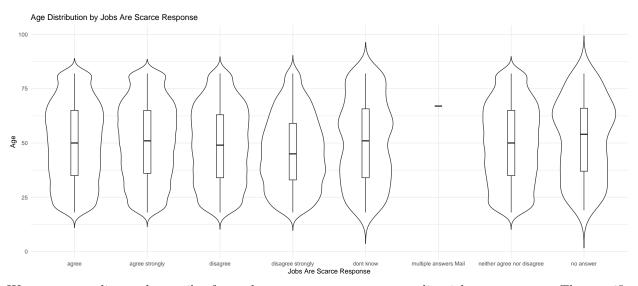
Below we highlight the confirmation our age variable holds no NA values. We can say with confidence our descriptive statistics surrounding age are pure.

No NAs in "age" confirmed

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## [1] 69 55 70 42 23 22 21 20 37 31 65 63 18 68 38 27 62 64 49 28 59 26 34 58 78 ## [26] 54 46 19 39 60 36 71 50 57 25 82 47 77 44 24 53 30 29 41 56 66 43 40 51 72 ## [51] 32 75 33 35 45 48 73 76 67 74 61 80 81 52 79
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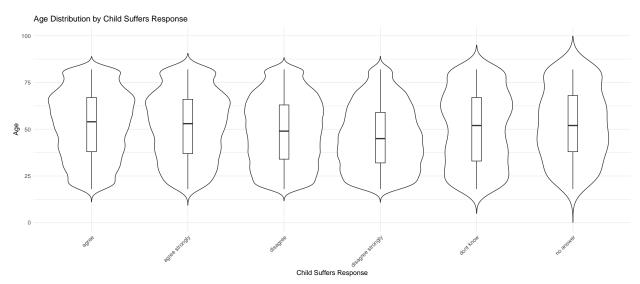
Age Impact on Dependent Variables

Plot 1 Age/Jobs are Scarce



We can see median and quartiles for each response category surrounding jobs_are_scarce. The specific question was: "When jobs are scarce, employers should give priority to [NATIONALITY] people over immigrants?" It appears from the box plots we can infer younger respondents tended to disagree strongly while observing median age rise when agreeing strongly.

Plot 2 Age/Child Suffers



We can see median and quartiles for each response category surrounding child_suffers. The specific question was: "When a mother works for pay, the children suffer?" It appears from the box plots we can infer younger respondents tended to disagree strongly while observing median age rise when agreeing strongly.

Regression Models

## ##	Dependent variable:		
 ##	jobs_are_scarce_numeric	child_suffers_numerio	
## ## age	0.001	0.001	
##	(0.002)	(0.001)	
##			
## age_squared	-0.00004**	-0.0001***	
## ##	(0.00002)	(0.00001)	
** ## respondent_sexfemale	-0.102	0.074	
##	(0.536)	(0.418)	
## 	2.252		
## respondent_sexmale	-0.059	-0.008	
## ##	(0.536)	(0.418)	
## respondent_sexno answer	0.027	0.756	
##	(0.611)	(0.476)	
##			
## educationDoctoral or equivalent	0.361***	0.147***	
## ##	(0.058)	(0.045)	
## ## educationdont know	-0.572***	-0.497***	
¥ #	(0.147)	(0.114)	

##			
##	educationLess than primary	-0.723***	-0.716***
##		(0.061)	(0.047)
##		0 570	0.400
	educationLower secondary	-0.570***	-0.468***
##		(0.022)	(0.017)
##	educationMagter or equivalent	-0.162***	-0.058***
##	educationMaster or equivalent	(0.022)	(0.017)
##		(0.022)	(0.017)
	educationno answer	-0.557***	-0.668***
##	044040131110 41101	(0.078)	(0.060)
##		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
##	educationother	-0.054	-0.139
##		(0.144)	(0.112)
##			
##	educationPost-secondary non tertiary	-0.462***	-0.236***
##		(0.030)	(0.023)
##			
##	educationPrimary	-0.496***	-0.474***
##		(0.030)	(0.023)
##			2.452
	educationShort-cycle tertiary	-0.292***	-0.153***
##		(0.025)	(0.020)
##	aducationUnnar gocandary	-0.595***	-0.346***
##	educationUpper secondary	(0.018)	(0.014)
##		(0.010)	(0.014)
	Constant	2.842***	2.965***
##		(0.537)	(0.419)
##			
##			
##	Observations	59,438	59,438
	R2	0.034	0.041
	Adjusted R2	0.033	0.041
	Residual Std. Error (df = 59421)	1.312	1.023
	F Statistic (df = 16; 59421)	128.964***	158.107***
	Note:		*p<0.1; **p<0.05; ***p<0.01
##	Note:		*p<0.1; **p<0.05; ***p<0.01
	Regression Models Results		
	====		
	TRUE		
	 -		

Here we took our categorical (and ordinal) dependent variables and made them continuous (numeric) so we could produce regression model results. These models show some statistical significance in predicting the dependent variables, but the low R^2 values indicate that they explain only a small portion of the variance. This suggests that while some predictors may have a statistically significant relationship with the outcome, they don't capture most of the complexity of the dependent variables. Further exploration of additional variables, interaction effects, or different modeling techniques might be needed.