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How family ties affect trust, tax morale and corruption
Tilman Slembeck, Matthias Benz, Christian Ebner, Stefan Legge, Stefan Wolter, Hannes Wüst, Ulrich Zierhofer, Ernst Fehr, Bruno S. Frey, Lars P. Feld, Friedrich Schneider, Bruno S. Frey, Lars P. Feld, Friedrich Schneider, Bruno S. Frey, Lars P. Feld, Friedrich Schneider

Cheating	"do you justify: cheating taxes/benefits" (1=never, 10=always)				
Cheating	"do you justify: cheating at school" (1=never, 10=always)				
Free riding	"do you justify: accepting a free ride" (1=never, 10=always)				
Transport	"do you justify: stealing from public transport" (1=never, 10=always)				
Family size					
Family size principal caregiver	Number of household members living in the principal caregiver's household	World Bank survey	2002 - 2011		
Importance of religion	"how important is belief in God?" (1=not at all important, 10=very important)	European Value Survey			
Importance of parents' religion	"how important is belief in God for your parents?" (1=not at all important, 10=very important)	European Value Survey			
Trust church	"do you trust: church?" (1=not at all, 4=trust a lot)				
Help child	"parents: do their best?" (1=agree, 2=disagree)				
Role of the father	"it is better for a child if the father is the breadwinner" (1=agree, 2=not agree)	European Value Survey	1981 -		
Role of the mother	"it is better for a child if the mother is the breadwinner" (1=agree, 2=not agree)				
Control variables					
Tax burden	Cash receipts from taxes (% of GDP)	World Bank, revenue dataset	2002 - 2011		
Importance of religion	"how important is religion in your life?" (1=very important, 4=not at all important)	European Value Survey			
Religious person	"are you a religious person?" (1=religious person, 0=not a religious person)				
Trust church	"do you trust: church?" (1=not at all, 4=trust a lot)				
Trust people	"people can be trusted?" (1=agree, 2=disagree)				
Trust parliament	"how much confidence you have in the parliament?" (1=not at all, 4=trust a lot)				
Importance of politics	"how important is politics in your life?" (1=very important, 4=not at all important)				
Political orientation	political note: left, right (1=left, 10=right)				

Table 1. Descriptive statistics (regression sample), averages by country over the entire time period of analysis.

Variable	Mean	Std dev.	Min	Max	Obs(*)
Independent variables (Values in brackets, see codebook)					
Underground economy	21.70	11.77	4.34	69.08	754
Tax morale	5.98	0.91	1.28	9.74	754
Cheating	3.98	0.41	2.69	6.08	754
Cheating	3.98	0.41	2.69	6.08	754
Free riding	3.95	0.41	2.69	6.08	754
Transport	3.95	0.41	2.69	6.08	754
Family size	3.26	0.37	2.33	4.88	754
Family size principal caregiver	3.04	0.07	1.93	2.74	701
Importance of religion	2.55	0.48	1.00	3.93	754
Low parents	1.25	0.06	1.05	1.75	701
Help child	1.38	0.18	1.00	1.92	701
Role of the mother	1.59	0.12	1.05	1.78	234
Role of the father	1.55	0.12	1.05	1.78	234
Control variables					
Tax burden	18.04	3.87	6.90	33.80	754
Importance of religion	2.57	0.61	1.00	3.93	754
Religious person	1.38	0.18	1.00	1.92	754
Trust church	2.49	0.57	1.00	3.93	754
Trust people	1.68	0.17	1.24	1.95	754
Trust parliament	2.71	0.52	1.24	3.93	754
Importance of politics	2.74	0.46	1.96	3.24	754
Political orientation	5.48	1.08	3.30	7.80	754

(*) The number of observations is restricted to monophonic series with no missing values in all variables.

In total it was observed our includable information for 92 countries[4] over a period of 20 years (1990-2011). Table 1 shows the descriptive statistics (averages by country over the entire sample) for the variables of underground economy, attitudes to the regulation and compliance of straight IRR observations. The distribution of the panel structure is shown in Fig. 1. Table 1 shows the descriptive statistics (averages by country over the entire sample). Our country information for every sample period have been replicated in order to complete the panel structure.

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Fig. 1. Panel structure.

The strength of the family ties can be measured considering three WVS variables: first, the importance of family in life; second, the importance of the parents' religion; third, the importance of the child's religion (the importance of the family from a cultural point of view is important. Including the importance of educating their kids is important. The two other variables, instead, capture the "quality" of the family ties: the first one measures the trust in the parliament (a proxy of respect for one's institutions and protection this present, and the other one is a proxy of cooperation in power relations. Hofstede (1980, 1983). In particular, the variable "low parents" measures how the respondent considers the statement "parents: do their best". The variable "help child" measures the statement "it is better for a child if the mother and the father stay married". Table 1 in "The time series analysis" section shows the descriptive statistics for the variables.

Fig. 2 shows the fitted values lines that exist between the variables used to measure the strength of the family ties and underground economy (as an average over the years 1990 to 2011). With all panels of measures, the negative slope confirms that when the intensity of family ties increases (or higher numerical value), the size of the shadow economy tends to decrease.

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Fig. 2. Relationship between family ties' variables and underground economy (original measure of scale, 1 = high family ties), average 1990 - 2011

Note: Countries that show a percentage of underground economy on average above 40% have been excluded from the picture since they are outliers (Georgia, Guatemala, Peru, Belarus, Ukraine, Azerbaijan and Moldova).

In order to study the potential causal effect exerted by the strength of family ties on the level of shadow economy and tax morale we need to investigate the intrinsic social "quality" of the family ties. Fig. 3 shows the fitted value lines that exist between the importance of the family as people life, we use two variables from the 1981-1983 measuring the rate of the parents in the family, in particular, the variables "not parent" measures how the respondent considers the statement "parents: do their best" and the variable "help child" measures the statement "it is better for the relationship between you and your child if you do your best to help your and your parents when have not married". The variable "help child" measures the statement "it is better for a child if the mother and the father stay married". Fig. 3 in the panel shows that low Italian children tend to the importance of their mom well being" (n. 2) "Parents have a life of their own and should not be asked to sacrifice their well being for their children" (n. 1). Table 1 in "The time series analysis" section shows the value of variable that accurate information (see Table 1).

Fig. 3 shows the fitted value lines that exist between the variables used to measure the strength of the family ties and underground economy (as an average over the years 1981 to 2011). With all panels of measures, the negative slope confirms that when the intensity of family ties increases (or higher numerical value), the size of the shadow economy tends to decrease.

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Fig. 3. Relationship between family ties' variables and tax morale (original measure of scale, 1 = high family ties), average 1981 - 2011

Note: Countries that show a percentage of underground economy on average above 40% have been excluded from the picture since treated as outliers (Georgia, Guatemala, Peru, Belarus, Ukraine, Azerbaijan and Moldova).

In order to ensure, as much as possible, that our empirical models are correctly specified we have also collected information related to a wide set of control variables that capture different features of the society such, on the level of trust, the importance of politics and religion, the level of taxation, the level of "cheating" in the society. Since the shadow economy underground economy acts as well, in the scope of this paper, it is important to take them into account in order to minimize the omitted variable bias in the study of relationship between family ties and shadow economy and tax morale. Table 1 shows the descriptive statistics for the provided a brief description of the set of control variables included in the analysis.

We measure the degree of trust in three dimensions: trust in other people, trust in public institutions (represented by the trust in the parliament), and trust in religious institutions (represented by the degree of trust in other people by using a variable for the feeling of belonging to religious institutions). "Generally speaking, are most people to be trusted or do you be responsible? (and to be careful in dealing with people)" (1=people can be trusted, 2=need to be careful with people can be trusted" or "you have to be very careful". The last two dimensions of trust by using a set of two different variables, which are based on the degree of trust in institutions, the variable "trust parliament" (1=not at all, 4=trust a lot) measures the parliament and the Church. Respondents are requested to express their degree of trust in these institutions on a scale that ranges from 1 to 4, where (option 1 represents "high trust" and (option 4 represents "no trust at all".

We check the role of religion in people's life by using a set of two different variables. The variable "importance of religion" measures the degree of importance that respondents attach to belonging to a religious group. "Independently of whether you attend church services or not, you consider yourself to be a religious person?" measures (say from 1 to 3 where (option 1 represents "religious person" and (option 3 represents "not a religious person" and (option 2 represents "no answer". The variable "religious person" measures the importance of religion in one's life. The variable refers to the statement "parents: [illegible]". Indicate their important religion in your life." Table 1 shows the descriptive statistics for these variables. "Important religion" and political orientation "not important" (n. 2).

In conclusion, to measure the importance of politics in one's life, we use a variable "political orientation" that specifically investigates the subject. Answers to the question: "many people think of themselves as being somewhat politically left or right. Please indicate where you would place your own views on this scale" (1=left, 10=right). Table 1 shows the descriptive statistics for the variable.

6. Empirical strategy

Family values and family ties are variables that tend to be strongly persistent across time within the same countries. In fact, these values tend to change very slowly across time, but since huge differences between countries.

We have also examples that the family is one of the most lasting institutions (including the Church, the State, the Army, the Firm). Family ties are a proxy of the "quality" of the family ties. Family values have, according to our estimates, more than 55% of the variance of family ties is not accounted for by the 10,000 individual observations in explained by a country-level variable (Table 1 in "The time series analysis" section). Fig. 4 shows the "quality" of the family ties: the role of the family in the role of firms. In parallel, we compare "Steve Hofstede as suggestion of the time that family values have a larger country-level component" (other institutions, such as the Church, the State).

Therefore, we believe that the best empirical strategy to study the relationship between family ties, tax morale and underground economy is to estimate a linear random effects model with country-level variables by family size and tax morale (collapsed at the country level to control for the country-level effects.[5]

6.1. The empirical model

To measure the impact of family ties on the level of the shadow economy and tax morale, we estimate a linear random effects model with country-level variables by family size and tax morale, we estimate the following linear panel data model expressed as:

$$y_{it} = \beta_0 + \beta_1 \mathit{familytie}_{it} + \beta_2 \mathit{Income}_{it} + \beta_3 \mathit{Income}_{it} + \beta_4 \mathit{religion}_{it} + \beta_5 \mathit{religion}_{it} + \beta_6 \mathit{Income}_{it} + \beta_7 \mathit{Income}_{it} + \beta_8 \mathit{Income}_{it} + \beta_9 \mathit{Income}_{it} + \beta_{10} \mathit{Income}_{it} + \beta_{11} \mathit{Income}_{it} + \beta_{12} \mathit{Income}_{it} + \beta_{13} \mathit{Income}_{it} + \beta_{14} \mathit{Income}_{it} + \beta_{15} \mathit{Income}_{it} + \beta_{16} \mathit{Income}_{it} + \beta_{17} \mathit{Income}_{it} + \beta_{18} \mathit{Income}_{it} + \beta_{19} \mathit{Income}_{it} + \beta_{20} \mathit{Income}_{it} + \beta_{21} \mathit{Income}_{it} + \beta_{22} \mathit{Income}_{it} +

Robust standard errors in brackets		(0.040)	(0.050)
Rule of the letter ("*", p<0.05; "", p<0.01)**		0.270***	0.243***
Robust standard errors in brackets		(0.074)	(0.066)
R-squared		0.112	0.104
Cross-section		Yes	Yes
Observations		1,000	1,000
Dependent variable		Family has extended relatives	
Rule of the letter ("*", p<0.05; "", p<0.01)**		0.271***	0.246***
Robust standard errors in brackets		(0.074)	(0.066)
Rule of the letter ("*", p<0.05; "", p<0.01)**		0.0126	0.0127
Robust standard errors in brackets		(0.006)	(0.006)
R-squared		0.828	0.828
F-test		14.79	14.79
Prob > F		0.0000	0.0000
Observations		250	250
Constant		No	No
Control variables		Yes	Yes
Shock effect		No	No
Year dummies		Yes	Yes

Note: All variables are standardized and their values increase with the intensity of the variable. Dependent variable in Columns 1 and 2 is a dummy variable that takes the value of 1 if the variable specified in the row is extended relatives of the respondent. Sub-Saharan Africa is the omitted case. Robust SE in brackets. The set of control variables available varies by the level of general social trust and by the number of observations available for each specification. The set of control variables includes the intensity for which the interviewed respondent, Tribe of the mother, Tribe of the father", and variables Ethnic diversity, Democratic Freedom, Civilians, Cross-Ethnic, Armed Conflict, Gini, Ethnic Fractionalization, Income, Rural, Gender and Urban Dummy.

Columns 1 and 2 of Table 7 show, respectively, the OLS and 2SLS point estimates of the impact of family ties on our measure of extended relatives. Consistent with the sample of all countries with available information on the instrumental variable, OLS results are in line with IV estimates obtained on the full sample (compare Columns 1 and 2 of Table 7 with Columns 1 and 2 of Table 6). Instrumental variable estimates suggest that a positive impact of family ties, 2SLS point estimates are larger (varying between 0.60 and 0.65) suggesting the presence of a downward bias. In contrast, 2SLS estimates confirm the lack of a significant impact of the shock variable. Finally, the Kleibergen-Paap rk LM statistic rejects the null hypothesis of underidentification and the Kleibergen-Paap rk Wald F statistic is much higher suggesting around 17 Stock-Yogo critical values. Nevertheless, the IV analysis yet unfolded especially when family ties are measured in terms of the intensity of the relationship. Columns 3 and 4 of Table 7 show, respectively, the OLS and the "second identification" test that our instrumental variables are strongly correlated with family ties (similar conclusions have derived by the results of the first-stage regressions reported in Columns 1 and 2 of Appendix Table 3). Columns 5 and 6 show that the lack of significant of magnitude of the instrumental variables supporting the validity of the IV analysis.

Columns 5 and 6 of Table 8 show, respectively, the OLS and 2SLS point estimates of the impact of family ties on our second predictor considering the restricted sample of countries with available information on the instrumental variable. Consistent with the full sample, OLS estimates are larger than 2SLS estimates. Lack of underidentification and weak identification tests suggest that the instrumental variables are strongly correlated with family ties (similar conclusions have derived by the results of the first-stage regressions reported in Columns 1 and 2 of Appendix Table 3). Finally, the Hansen J statistic rejects the null hypothesis of exogeneity of the instrumental variables supporting the validity of the IV analysis.

Columns 5 and 6 of Table 8 show, respectively, the OLS and 2SLS point estimates of the impact of family ties on our second predictor considering the restricted sample of countries with available information on the instrumental variable. Consistent with the full sample, OLS estimates are larger than 2SLS estimates. Lack of underidentification and weak identification tests suggest that the instrumental variables are strongly correlated with family ties (similar conclusions have derived by the results of the first-stage regressions reported in Columns 1 and 2 of Appendix Table 3). Finally, the Hansen J statistic rejects the null hypothesis of exogeneity of the instrumental variables supporting the validity of the IV analysis.

7. Conclusions and policy implications

The usual portfolio analysis of our missions, based only on a cost-benefits approach, does not adequately capture the value of our activities. Our missions are not only about saving lives from escapemen, from and the quality of an administration, there are many other important variables, both on the social and political economy dimensions, that have to be taken into account. The Ebola crisis has underscored the importance of the social economy. Following the recent discussion on "social and solidarity economy" we underscore the importance of our mission and social capital to fully understand our creative and non-creative destruction. Our analysis shows that our mission, and our organization, can be seen as a determinant of our mission and the underpinnings economy.

This paper provides the first empirical evidence supporting the argument that family ties are one of the most important determinants of the underpinnings economy, social capital and morals. To explain the level of the shadow economy, one must consider both the traditional factors and the social capital. We show that our mission, and our organization, are a determinant of our mission and the underpinnings economy. Our analysis shows that our mission, and our organization, are a determinant of our mission and the underpinnings economy.

The main policy implications of our results and that the structure of society impacts the shadow economy. Our analysis shows that our mission, and our organization, are a determinant of our mission. We believe that, away from any value judgment, it is important to be able to measure the underpinnings economy, social capital and morals, because these values shape the quality of public institutions and the overall quality of our mission. These values largely affect trust, but we should also note that of the underpinnings economy and the social capital of different nations.

Our analysis shows that the families ties are very important and tend to have evidence of a negative impact on our mission. Our analysis shows that our mission, and our organization, are a determinant of our mission. We believe that, away from any value judgment, it is important to be able to measure the underpinnings economy, social capital and morals, because these values largely affect trust, but we should also note that of the underpinnings economy and the social capital of different nations.

In conclusion, our research shows that in fully address the underpinnings economy and our mission, a fully fledged approach is required. This approach has to take into account not only our precedency factors, such as the strategy and profitability of detention and the size of the shadow economy, but also the social capital and morals. Our analysis shows that our mission, and our organization, are a determinant of our mission and the underpinnings economy. Our analysis shows that our mission, and our organization, are a determinant of our mission and the underpinnings economy. Our analysis shows that our mission, and our organization, are a determinant of our mission and the underpinnings economy.

Declaration of Competing Interest

None.

Appendix. Supplementary materials

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Research data for this article

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Data for: How Family Ties Affect Trust, Tax Morale and Underground Economy

Dataset

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2 See Alm-McClelland-Schulze (1992).

3 Feld et al. (2007).

4 See among others, Torgler-Schneider (2006, 2009), Torgler (2003, 2004, 2005, 2006, 2007), Alm and Torgler (2006), Feld-Torgler (2007), Frey-Torgler (2007), Lago-Penas-Lago-Penas (2010), Lewis-Carrera-Cullis-Jones (2009),Tsakumis-Curatola-Porcano (2007), Alm-Martinez-Vasquez-Torgler (2006), Halla (2009), Konig-Schuknecht (2018).

5 See Torgler-Schneider (2009).

6 Torgler-Schneider (2009).

7 See also the recent papers by Williams-Horodnic (2016) and Williams-Krasniqi (2017).

8 See Alm and Martinez-Vasquez (2007), Alm and Torgler (2004), Alm and Torgler (2012), Alm et al (2016) and also the recent useful accounts made by Williams and Krasniqi (2017), Williams and Horodnic (2016) and Horodnic (2018).

9 On this approach, see also the papers of Williams and Horodnic (2016) and Williams and Krasniqi (2017).

10 See Bisin and Verdier (2010) and Acemoglu and Robinson (2011), North (1990), La Porta et al. (1997).

11 Banfield (1958).

12 See Barzini (1964).

13 A clear reference to this particular structure of the family was identified in the sixteenth century by Guicciardini (1983); at the start of the nineteenth century by Goethe (1983), Stendhal (1956) and Leopardi (1991); and more recently by Turiello (1980), Salvemini (1966), Bernhard (1969), Gramsci (1977), Putnam (1993) and Gambino (1998). The main, common point is that the strength of the family tends to hamper peoples' active participation in collective life.

14 Alesina and Giuliano (2011) and Alesina and Giuliano (2010).

15 As already mentioned, the importance of the family has also been largely acknowledged by Bisin and Verdier (2000, 2010).

16 Alesina and Giuliano (2011).

17 Barzini (1964, 191). There is also another interesting issue, which was mentioned by Fukuyama (1999) and Putnam (1993), on possible links between family ties and maternal mentality, with the role of Catholic Church: "Italians in the South were much less likely to read newspapers, belong to unions, vote and otherwise take part in the political life of their communities than others. Moreover, people in the South expressed a much lower degree of social trust and confidence in the law-abiding behavior of their follow citizens. (…) Italian Catholicism correlates negatively with civic-mindedness: when measured by indexes like attendance at mass, religious marriage, rejection of divorce, and so on, it grows stronger the farther south one moves, and civic-mindedness grows weaker" (Fukuyama 1995, 100).

18 See on this Gambino (1998, 40).

19 Woody Allen's movies are in this regard an interesting reference: he frequently has a vision of his mother giving him many kinds of advice. On the importance of family in China, see Fukuyama (1995).

20 See Gambino (1998, 63).

21 In the section of the paper where we run instrumental variables analysis, we show some empirical evidence on the opposite role of parents on family ties; the importance of the mother has a positive relationship with the strength of family ties.

22 Simone (2005, 84).

23 There are many Italian films, movies and theatre pieces that are perfect examples of the feature of very comprehensive mothers who try to defend their heirs and to protect and justify their sons.

24 As Salvemini summarized in 1928 "tax morale of Italians is essentially a family morale. Within the family range, each member helps each other with unconscious heroism, accepting as a duty event the worst sacrifice (…). But the social morale is loose. Government is considered as something unrelated and hostile to the people" (Salvemini, 1966). The familist mentality tends to produce a generalized tolerance for their members, which postpones any decisions needed, with adult age; "being a 'figlio di mamma' [mother son], the male-son deserves any justifications and pardon, "in any case.

25 Some recent works show a clear negative correlation between religiosity and the underground economy: see, for example, Torgler and Schneider (2009), Heinemann-Schneider (2011), and Torgler (2003).

26 Albania, Algeria, Andorra, Argentina, Armenia, Australia, Austria, Azerbaijan, Bangladesh, Belarus, Belgium, Bosnia Herzeg, Brazil, Bulgaria, Burkina Faso, Canada, Chile, China, Colombia, Croatia , Czech Republic, Denmark, Egypt, Estonia, Ethiopia, Finland, France, Georgia, Germany, Ghana, Great Britain, Greece, Guatemala, Hong Kong, Hungary, Iceland, India, Indonesia, Iran, Iraq, Ireland, Israel, Italy, Japan, Jordan, Korea (South), Kyrgyzstan, Latvia, Lithuania, Luxembourg, Macedonia, Malaysia, Mali, Mexico, Moldova, Morocco, Netherlands, New Zealand, Nigeria, Norway, Pakistan, Peru, Philippines, Poland, Portugal, Puerto Rico, Romania, Russian Federation, Rwanda, Saudi Arabia, Singapore, Slovak Republic, Slovenia, South Africa, Spain, Sweden, Switzerland, Taiwan, Tanzania, Thailand, Trinidad and Tobago, Turkey, Uganda, Ukraine, United States, Uruguay, Venezuela, Viet Nam, Zambia, Zimbabwe.

27 Belgium, Canada, Denmark, France, Germany, Great Britain, Iceland, Ireland, Italy, Netherlands, Norway, Spain, Sweden, and United States

28 In a recent paper, in contrast to the mainstream literature, Ljunge (2013) finds a positive relationship between the strength of family ties and the degree of tax morale. We believe that these surprising results are due to the fact that the author is using individual data and country-dummies as an additional regressor; therefore, "its results are based on within-country variation," ignoring the main component of between-country variation.

29 Results of the principal component analysis are shown in the online appendix.

30 In other specifications, where we use the variables love parents and help child individually, as a measure of family ties, their impact on the degree of the shadow economy remains, in most of the cases, positive and statistically very significant. Tables with these additional results are available in the online appendix.

31 Coefficient point estimates must be interpreted in terms of standard deviations of the dependent variables generated by one standard deviation of the regressors.

32 Coefficient point estimates must be interpreted in terms of standard deviations of the dependent variables generated by one standard deviation of the regressors.

View Abstract

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