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Family Ties and Socio-Economic Outcomes in High vs. Low Income Countries^{*}

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Abstract

Alesina and Giuliano (*J. Econ. Growth*, 15(2), 2010) illustrate that strong family ties lead to lower geographical mobility and reduced labor force participation of young and female individuals. We extend their analysis by arguing that the effect of strong family ties on economic outcomes depends on a country's level of economic and institutional development. This cross-country heterogeneity arises because strong family ties not only foster traditional family values (which have disruptive effects on economic outcomes), but also provide economically valuable social networks – especially in societies characterized by weak institutions and limited market access. Empirical evidence using the European and World Value Surveys (EVS/WVS) is supportive of our theoretical argument.

Keywords: Family Ties, Trust, Social Capital, Labor Market Participation, WVS.

Word count: 6004

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1. Introduction

Alesina and Giuliano (2010) show that strong family ties are causally related to several factors disruptive to economic growth, including lower labor force participation of young and female individuals and lower geographical mobility (see also Alesina and Giuliano, 2013; Alesina et al., 2015). Subsequent studies illustrate similar negative effects of strong family ties on the labor force participation of elderly individuals, on individuals' interpersonal trust (Ermisch and Gambetta, 2010; Alesina and Giuliano, 2011, 2013) and on overall economic dynamism (Duranton and Rodriguez-Pose, 2009).

In this article, we maintain that allowance should be made for cross-country heterogeneity in the effect of family ties (for similar claims in different settings, see Gërkhani, 2004; Cervellati et al. 2014). The underlying argument starts from the observation that existing studies' theoretical reasoning mostly refers to the connection between strong family ties and (*traditional*) *family values*. For instance, female labor force participation (LFP) is argued to decline with strong family ties because it is associated with a more traditional view of a woman's role in society (Alesina and Giuliano, 2010). However, in our view, family ties can also play a key role in the establishment of economically valuable *networks* (Wahba and Zenou, 2005) via, for instance, marriages (Rosenzweig and Stark, 1989; Luke et al., 2004; Wang, 2011). Rosenzweig and Stark (1989), for instance, show that marital arrangements, which establish a new network with the family of the spouse, mitigate farmers' income volatility in rural India. Luke et al. (2004) similarly find that family networks, again organized around marriages, increase individuals' performance in urban labor markets in both Kenya and India. Wang (2011) uses the exogenous shock of the death of the father-in-law to show the causal effect of family networks on earnings; the loss of the father-in-law is found to induce a 7% decrease in a man's earnings. Hence, family-based *networks* reflect a capacity

to extend one's connections, and might thereby allow access to economically valuable opportunities (Montgomery, 1991, Munshi, 2003, Wahba and Zenou, 2005).¹

Crucially, family networks are likely to matter more for economic outcomes in developing countries. At a risk of generalization, developing countries tend to have weaker formal institutions (Dreher et al., 2014). As informal institutions – such as the family – become a substitute for formal institutions when the latter are incomplete (Gërkhani, 2004; Helmke and Levitsky, 2004; Dreher et al., 2014), family networks can play a central role for individuals' social and economic needs in such settings. This implies, however, that any positive effect of family networks on labor market outcomes (Rosenzweig and Stark, 1989; Luke et al., 2004; Wang, 2011) will be particularly forceful in developing countries. Even when there is a general negative impact of traditional family values on LFP (as argued in Alesina and Giuliano, 2010, 2013; Alesina et al., 2015), the *overall* effect of strong family ties thus is likely to still vary across countries depending on their level of economic and institutional development. Specifically, one would expect weaker disruptive effects of strong family ties on economic behavior in less affluent, underdeveloped countries.

A similar argument can also be made for the link between strong family ties and individuals' interpersonal trust. Strong family ties are generally argued to reduce the need for social contacts with people outside the family, because individuals' needs are taken care off *within* the family (Ermisch and Gambetta, 2010; Alesina and Giuliano, 2013). This closed network undermines individuals' ability to judge others' trustworthiness (thereby reducing interpersonal trust), and decreases their access to opportunities outside the family (impeding their economic progress).² Yet, this line of argument again pays too little attention to the

¹ A similar network mechanism has also been brought forward to explain the formation and success of political dynasties (Dal Bó et al. 2009; Daniele, 2015). Likewise, Mastrobuoni (2015) convincingly documents the economic value of network connections within the Italian-American mafia in the 1960s.

² A large literature links interpersonal trust to economic growth and development. For a recent discussion of this extensive literature and an integrative contribution to it, see Bjørnskov and Méon (2013).

potential role of family networks in developing, low-income countries. In such settings, as mentioned, the network effects induced by strong family ties emphatically increase people’s contact possibilities outside the family and buttress the availability of economically valuable opportunities (Rosenzweig and Stark, 1989; Luke et al., 2004; Wang, 2011). As before, therefore, the effect of strong family ties on social trust is likely to display cross-country heterogeneity depending on countries’ levels of economic and institutional development.

Section 2 describes the dataset and estimation strategy employed to test for cross-country heterogeneity in the effect of family ties on economic outcomes. The main findings are summarized in Section 3. Finally, Section 4 contains a concluding discussion.

2. Data and estimation approach

Following Alesina and Giuliano (2010, 2011, 2013), our empirical analysis is based on data from all currently completed waves of the EVS/WVS. This dataset covers 99 countries and roughly 220.000 individuals (though not all countries are represented in every wave). Using these data, we estimate the following regression equation (where i refers to individuals and t to survey waves):

$$Y_{i,t} = a + b_1 \text{ Family Ties}_{i,t} + b_2 \text{ Controls}_{i,t} + e_{i,t} \quad (1)$$

$Y_{i,t}$ is a vector containing measures of young, female and elderly labor force participation (i.e. indicator variables equal to 1 if the respondent is active in the labor market, 0 otherwise), geographical mobility (i.e. indicator variable equal to 1 if the respondent is co-resident in his/her parents’ house; Alesina and Giuliano, 2010) and interpersonal trust (i.e. indicator variable equal to 1 if the respondent believes that most people can be trusted). The actual survey question on interpersonal trust reads: “Generally speaking would you say that most

people can be trusted or that you can't be too careful in dealing with people?". Respondents can either agree with the former part of the statement (in which case they are coded as 1 in our trust measure), or with the latter part of the statement (in which case they receive value 0). Note also that young (elderly) individuals are defined as between 15 and 29 (55 and 65) years of age.

Our measure of the strength of family ties combines information from three separate survey questions (Bertrand and Schoar, 2006; Alesina and Giuliano, 2010, 2011, 2013; Alesina et al., 2015). These are, respectively, related to family's importance to the respondent, his/her evaluation of the duties and responsibilities of parents towards children, and his/her evaluation of children's duties and responsibilities towards their parents.³ We combine these questions using a principal components analysis (PCA), and employ the first principal component as our main explanatory variable.⁴ As shown in detail by Alesina and Giuliano (2013), Scandinavian and Anglo-Saxon countries rank lowest on the resulting scale, while a heterogeneous group of African, Asian and South American countries rank highest. It is clear from the questions employed (see note 3) that our analysis is predominantly based on measures of family values and does not explicitly introduce a direct measure of family networks. Still, our underlying assumption is that the strength of family *values* is related positively to the strength of family *networks*. Although the two concepts are clearly different, it is plausible to assume a positive correlation between them, which is all we require for the analysis below.

³ Specifically, the first question asks "How important is family in your life?", and takes values from 1 (not important at all) to 4 (very important). The second question measures respondents' agreement with one of two statements: (1) "One does not have the duty to respect and love parents who have not earned it"; (2) "Regardless of what the qualities and faults of one's parents are, one must always love and respect them". The third and final question again measures respondents' agreement with one of two statements: (1) "Parents have a life of their own and should not be asked to sacrifice their own well-being for the sake of their children"; (2) "It is the parents' duty to do their best for their children even at the expense of their own well-being".

⁴ The eigenvalue of the first factor deriving from this PCA is equal to 1.24, and it explains 41.9% of the variance in responses. The factor loadings for each element included in the PCA exceeds 0.53.

The vector $Controls_{i,t}$ contains variables reflecting individuals' sex, age, age squared, marital status and education, as well as country and survey fixed effects and the interaction of survey and country fixed effects. Although this follows Alesina and Giuliano (2010, 2013), we also experimented with a more extended set of controls incorporating individuals' income and religiosity. As this does not affect any of the inferences below, we do not report these additional results in detail here. Summary statistics for all variables are provided in Table 1.

Table 1 about here

To test for cross-country heterogeneity in the effect of family ties, we run equation (1) for different subcategories of countries depending on their level of economic and institutional development using the World Bank development classification.⁵ This classification is based on Gross National Income (GNI) per capita, and separates four groups of countries: i.e. low income, low-medium income, upper-medium income and high income. Although we test the robustness of our results to this classification below, we use it in the main analysis for three reasons. First, it is a well-established indicator of countries' development. Second, GNI per capita is strongly positively correlated with the strength of formal institutions, which represents the key driving force behind our theoretical argument in section 2. Finally, the World Bank classification started in 1987 and is updated annually. This allows incorporating countries' development over time, which is important since the majority of countries in our sample (i.e. 60 out of 99) switches category over the four decades covered by our analysis (note that such switches are not necessarily upwards). Figure 1 illustrates means and standard

⁵ For more information on this classification, see <http://data.worldbank.org/about/country-classifications/a-short-history>. Note also that while we report only the split-sample results in detail below, models with interaction effects provide similar results. For ease of interpretation, Figure A.1 visualizes the marginal effect of family ties across the different country groups in these interaction models, which are estimated using multilevel models – where individuals (level 1) are nested within countries (level 2) and the family ties variable is interacted with the World Bank classification index (details available upon request).

deviations of the family ties' variable in the four groups of countries. In line with Alesina and Giuliano (2010, 2013), family ties weaken with a countries' level of development, although, importantly, significant variation remains within each group of countries.

Figure 1 about here

Before discussing the results, it is important to note that Alesina and Giuliano (2010) deal extensively with the problem of reverse causality – i.e. the fact that individuals suffering economic misfortune need to rely more heavily on their family's resources, which might impact their perception of family ties – by looking at inherited family ties among a subsample of second-generation immigrants. The key identifying assumption is that the strength of family ties is generally persistent across generations and is related to historical family structures (Galasso and Profeta, 2012). To preserve space, and because we rely on the same dataset as Alesina and Giuliano (2010, 2013), our analysis will not repeat these causality tests.

3. Results

3.1. Baseline results

Table 2 reports our main findings using OLS.⁶ In column 1, we employ the full sample of countries as in Alesina and Giuliano (2010, 2011, 2013). Columns 2 to 5 report results for, respectively, the subsample of low income (column 2), low-middle income (column 3), middle-upper income (column 4) and high income (column 5) countries. To preserve space, and because they are generally equivalent to those reported in Alesina and Giuliano (2010, 2011, 2013), we do not present the coefficients of the control variables.

⁶ Our results do not change if we use logit or probit models instead of OLS (available upon request).

Table 2 about here

Column 1 shows that the effect of strong family ties on the different dependent variables in the entire sample is similar, both in terms of effect size and statistical significance, to Alesina and Giuliano (2010, 2011, 2013).⁷ Specifically, family ties have a negative and substantively meaningful effect on social trust, geographical mobility, female and youth LFP, but do not significantly affect elderly LFP. The remaining columns in Table 2, however, indicate that this negative relation is mostly driven by developed, high-income countries. Indeed, while all coefficient estimates in column 5 are negative and statistically significant (except for elderly LFP), moving towards less developed, lower income countries leads to substantively and/or statistically weaker effect sizes for female and young LFP. For the measures of geographical mobility and interpersonal trust, the negative effect of strong family ties is even reversed when the level of development is sufficiently low. Except for elderly and female LFP, we can thereby formally reject at conventional levels of statistical significance that the effect of strong family ties is the same across all countries.

These findings should *not* be interpreted as a rebuttal of Alesina and Giuliano (2010, 2011, 2013). Our results do, however, provide a valuable extension by confirming important cross-country heterogeneity in the effect of family ties – especially when looking at countries with the lowest levels of economic and institutional development. Note also that these results cannot be explained by potential differences in the level of variation observed in family ties across the four subsamples – and particularly within the low-income countries. Figure 1

⁷ The slight difference in our results is due to our specification of respondents' marital status. Alesina and Giuliano set the indicator variable for married individuals to 1 only for individuals declaring to be "living together as married (but not married)", while we also set it to 1 for married individuals. Although this does not affect any of the results reported below, and we can exactly replicate Alesina and Giuliano's original results using their specification, we consider our operationalization more appropriate.

above indeed illustrates that significant variation exists within each group of countries, and that there are only marginal differences in the observed standard deviations across groups.

The exception posed by the results on female LFP – where the estimated effect sizes are roughly equivalent across all country groups – is interesting from a theoretical perspective. This indeed appears to suggest that the positive family networks effect counteracting the negative family values effect in low-income countries (see above) lacks substantive power for female LFP. Such interpretation could be in line with Magruder (2010), who shows that the labor market advantage of family networks in South Africa arises *only* for men, *not* for women. Family networks might thus be less useful for women than for men in low-income countries, which becomes reflected in the relative homogeneity of our findings across countries on this variable.⁸ Alternatively, however, it may also be that for female LFP, the negative family values effect strengthens in equal measure to the family networks effect while moving towards less developed countries.

As a preliminary step towards disentangling both explanations, we experimented with individuals' actual employment status (i.e. an indicator variable equal to 1 if employed, 0 otherwise) as an alternative dependent variable. Assuming that traditional family values mainly affect the decision to enter (or not) the labor market (see Alesina and Giuliano, 2010), looking at employment outcomes *given that individuals participate in the labor force* provides an indicator for the strength of family network effects on economic outcomes. Using a Heckman selection model to account for the effect of family ties on female LFP (see above), the results indicate that strong family ties *positively* affect female employment only in developing low-income countries (details upon request). Although this is suggestive of the

⁸ Magruder (2010) studies *formal* labour markets, and it is not intuitively clear whether similar gender differences in the labour market advantage of family networks would likewise arise in *informal* labour markets. Unfortunately, the EVS/WVS does not differentiate between formal and informal labour markets, which implies that we cannot empirically verify such potential formal-informal sector differences. This clearly remains an important avenue for future research.

fact that women also benefit from a positive family networks effect, it clearly requires further confirmation in future research.

3.2. Robustness check using alternative country classification

In this section, we experiment with different measures of institutional quality to approximate economic and institutional development. Specifically, we consider three indicators included in the World Bank's Worldwide Governance Indicators (WGI). These aggregate information from dozens of indicators, and are updated annually since 1996. The measures included here are: *i*) Government Effectiveness, which assesses the quality of policy formulation and implementation, public services and the civil service as well as the degree of its independence from political pressures; *ii*) Regulatory Quality, which measures the government's ability to formulate and implement high-quality policies and regulations; *iii*) Rule of Law, which evaluates "the quality of contract enforcement, property rights, the police, and the courts, as well as the likelihood of crime and violence" (Worldwide Governance Indicators, www.govindicators.org).

The WGI place each country in a percentile rank according to their position in the global ranking. Higher positions thereby reflect better outcomes. To align our presentation to that of previous tables, we use the original scores to divide countries in four distinct groups: i.e. low quality institutions (0-25), low-middle quality institutions (26-50), upper-middle quality institutions (51-75) and high quality institutions (76-100). We then re-estimate equation (1) separately for these four groups of countries. The results concerning Government Effectiveness are provided in Table 3 (Regulatory Quality and Rule of Law provide similar findings, which are available upon request). Note that the sample is restricted here to data collected after 1995 since WGI data are available only since 1996.

Table 3 about here

Despite the shorter period and the alternative operationalization of countries' level of development, the results in Table 3 are a close replication of those in Table 2. That is, strong family ties have a meaningful negative effect on trust, geographical mobility, female and youth LFP in countries with high-quality formal institutions. However, moving towards less developed countries in the left-hand side of the table generally weakens this negative relation, and in some cases reverses it. This confirms that our results are robust to different classifications of countries' economic and institutional development.

3.3. Robustness check on political engagement

Our theoretical argument relies on the substantial potential economic value of family networks in less-developed countries. We can assess this theoretical mechanism by evaluating whether the link between family ties and *non-economic* outcomes (such as political interest and political engagement) differs depending on countries' level of economic and institutional development. As the economic value of family networks should have no effect on non-economic outcomes, we would not expect to observe cross-country heterogeneity in the effect of family ties on non-economic outcomes. This test is inspired by Alesina and Giuliano (2011), who show that the detrimental effects of strong family ties extend to political interest and political engagement. The underlying argument relies on Banfield's (1958) theory of "amoral familism", which holds that strong family ties might act as a substitute for interest in public affairs. All attention under such 'amoral familism' is directed inwards – i.e. towards the needs and aspirations of one's immediate family circle –

and leads to a disregard for external, non-family issues (for more details, see Alesina and Giuliano, 2011).

In Table 4, we report the results from re-estimating model (1) using different measures of political participation as dependent variables. For reasons of comparability, we thereby use the same dependent variables as Alesina and Giuliano (2011): i.e. interest in politics (measured on a 4-point scale from (1) ‘not at all interested’ to (4) ‘very interested’), and individuals’ likelihood to sign a petition, join a boycott, attend demonstrations and occupy buildings (measured on a 3-point scale including (1) ‘Would never do’, (2) ‘might do’ and (3) ‘have done’). Table 4 follows the same basic pattern as table 2.⁹

Table 4 about here

The results in table 4 indicate that family ties negatively affect political participation for all dependent variables included in the analysis – in line with the original results reported in Alesina and Giuliano (2011). Importantly, this observation holds both for the entire set of countries (column 1), as well as the four subsets based on World Bank development categories (columns 2 to 5). Overall, this provides further substantiation of our results in tables 2 and 3, since a heterogeneous effect of family ties appears *only* on the (economic) variables targeted by our theoretical line of argument.

5. Conclusion

Recent work has shown that strong family ties have a detrimental effect on several sources of economic growth including interpersonal trust, geographical mobility and young, female and elderly LFP (Alesina and Giuliano, 2010, 2011, 2013; Alesina et al., 2015). In this

⁹ Also in this case, we refer to Alesina and Giuliano (2011) for detailed tests of the direction of causality.

article, we have argued that allowance should be made for cross-country heterogeneity in this effect of family ties. The underlying idea is that in developing countries, where institutions and markets are weaker (Gërkhani, 2004; Helmke and Levitsky, 2004; Dreher et al., 2014), strong family ties will act as a substitute for the market and can have important – and economically valuable – network effects that counteract the negative effect of (traditional) family values.

Our empirical analysis provides evidence in line with this idea. Strong family ties only have a substantive, statistically significant *negative* effect on labor force participation, trust and geographical mobility in developed high-income countries. This negative relation disappears – and can even reverse – at lower levels of development, where family networks become more economically valuable as a substitute for market access. These results are robust to different measures of economic development. Moreover, a robustness check on non-economic outcomes corroborates that the observed heterogeneity may indeed derive from the economic value of family networks in under-developed countries.

These results not only highlight the importance of accounting for the various, and sometimes contrasting, effects of strong family ties on economic behavior, but also raise a number of important avenues for future research. For instance, they emphasize the need for a deeper understanding of the exact relations and tradeoffs between formal and informal institutions (such as the family). While the family unit has rightly been recognized as central to economic behavior, our knowledge of how the role of family ties interacts with the effects of formal institutions remains overly limited. A recent exception to this general trend is Durante et al. (2015), who show that a 1998 legislative reform in Italy weakening the institutional constraints on the academic hiring process caused a significant increase in the prevalence and persistence of family-based hiring practices only in areas characterized by low civic capital. Similarly, Alesina et al. (2015) argue that the deregulation of formal labor

market institutions “requires geographical mobility”, which in turn “requires relatively weak family ties”. Still, as we have shown, the negative link between strong family ties and geographical mobility holds only in a subset of affluent countries, such that the apparent general nature of their conclusion would require a more in-depth assessment in future research.

Clearly, a better understanding of such interactions between formal and informal institutions is of critical importance to a more accurate design of public policies. In fact, since similar self-reported attitudes towards family ties lead to opposite outcomes depending on the socio-economic characteristics of the country, it is important for public policy-makers aiming at, for instance, labor market regulation, redistributive policies, education and welfare provision to properly account for the exact influence of family ties in their setting. Interestingly, recent work has started taking limited steps towards such a line of research. Brumm and Brumm (2014), for instance, show that intra-family altruism might hinder economic reforms even in periods of economic crisis, while Alesina et al. (2015) model a game where societies characterized by strong family ties vote for stricter labor market regulation.

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Table 1: Summary Statistics

Variable	Observations	Mean	Std. Dev.	Min	Max
Family Ties (see Section 3 for details)	269085	8.76E-09	1.111511	-5.84373	0.789682
Trust (see Section 3 for details)	405490	0.29075	0.454109	0	1
LFP (see Section 3 for details)	405271	0.635197	0.481375	0	1
Geographical Mobility (see Section 3 for details)	318494	0.275236	0.446634	0	1
Interest in Politics	380171	2.640827	0.959913	4	1
Sign Petition	379239	2.001566	0.816958	3	1
Joining in Boycotts	368583	2.498189	0.658263	3	1
Attending Demonstrations	377978	2.281715	0.745397	3	1
Joining Strikes	302315	2.699152	0.559341	3	1
Occupying Buildings	297367	2.829285	0.430827	3	1
Age	413876	42.14841	16.7231	14	108
Sex (1 for female, 0 for male)	419345	0.525424	0.499354	0	1
Married (1 for married, 0 otherwise)	424099	0.045808	0.209068	0	1
Education (1 for lower education, 2 for middle education, 3 for higher education)	338262	1.865442	0.739948	1	3
Income (1 for lowest income, 10 for highest income)	308616	4.65622	2.438972	1	10
Religiosity (1 if the respondent belongs to a religious denomination, 0 otherwise)	329054	0.79418	0.4043	0	1
Survey Wave (1 for 1 st wave, 6 for last wave)	424099	3.823836	1.487118	1	6
World Bank development classification (see section 3 for details)	420319	2.95035	1.032966	1	4
Government Effectiveness (see section 3.2 for details)	311922	2.937157	1.010256	1	4
Regulatory Quality (see section 3.2 for details)	320577	2.977016	1.027109	1	4
Rule of Law (see Section 3.2 for details)	330136	2.766151	1.077019	1	4

Table 2: Main results on family ties, trust and economic outcomes

	Entire Sample	Low Income	Low Middle Income	Upper Middle Income	High Income
Trust					
Family Ties	-0.006 (6.67)**	0.014 (5.03)**	-0.003 (1.50)	-0.008 (4.91)**	-0.010 (6.82)**
<i>Controls A&G</i>	YES	YES	YES	YES	YES
R^2	0.11	0.05	0.12	0.05	0.13
N	218,465	28,385	48,853	59,512	78,330
Women LFP					
Family Ties	-0.008 (5.45)**	-0.005 (1.21)	-0.008 (2.50)*	-0.010 (3.66)**	-0.007 (3.42)**
<i>Controls A&G</i>	YES	YES	YES	YES	YES
R^2	0.24	0.27	0.23	0.24	0.20
N	98,779	12,320	23,242	27,662	34,029
Young LFP					
Family Ties	-0.005 (3.61)**	0.003 (0.82)	-0.006 (2.01)*	-0.007 (2.84)**	-0.008 (4.25)**
<i>Controls A&G</i>	YES	YES	YES	YES	YES
R^2	0.31	0.41	0.32	0.29	0.19
N	44,601	7,144	11,969	13,229	11,708
Geographical Mobility					
Family Ties	-0.004 (4.34)**	0.003 (1.10)	-0.002 (1.27)	-0.003 (1.95)	-0.005 (3.92)**
<i>Controls A&G</i>	YES	YES	YES	YES	YES
R^2	0.38	0.36	0.36	0.39	0.38
N	44,601	29,655	43,468	40,931	44,875
Elderly LFP					
Family Ties	-0.005 (1.89)	0.000 (0.05)	-0.009 (1.35)	-0.001 (0.11)	-0.006 (1.47)
<i>Controls A&G</i>	YES	YES	YES	YES	YES
R^2	0.26	0.30	0.26	0.24	0.28
N	27,182	2,058	5,470	7,653	11,431

Note: OLS estimations, t-statistics based on robust standard errors between brackets. The dependent variables are: Trust - “Generally speaking would you say that most people can be trusted or that you can’t be too careful in dealing with people?” (1 if the respondent agrees that most people can be trusted); Female, Young and Elderly LFP are dummies equal to 1 if the respondent is active in the labor market, 0 otherwise; Geographical Mobility is a dummy equal to 1 if the respondent lives with his/her parents. Countries are divided into four groups based on the World Bank development classification. Control variables in this model include gender, age, age squared, marital status, education level, survey fixed effects, country fixed effects and interactions between country and survey fixed effects. * $p < 0.05$; ** $p < 0.01$.

Table 3: Alternative operationalization of economic development

	Low Government Effectiveness	Lower Middle Government Effectiveness	Upper Middle Government Effectiveness	High Government Effectiveness
Trust				
Family Ties	0.008 (2.40)*	-0.003 (1.35)	-0.001 (0.31)	-0.011 (7.19)**
<i>Controls A&G</i>	YES	YES	YES	YES
R^2	0.05	0.11	0.07	0.14
N	21,516	45,223	50,869	77,066
Women LFP				
Family Ties	-0.006 (1.47)	-0.005 (1.47)	-0.005 (1.60)	-0.009 (4.28)**
<i>Controls A&G</i>	YES	YES	YES	YES
R^2	0.25	0.24	0.26	0.19
N	10,335	20,768	23,882	32,868
Young LFP				
Family Ties	0.004 (1.08)	-0.003 (0.90)	-0.007 (2.63)**	-0.007 (3.62)**
<i>Controls A&G</i>	YES	YES	YES	YES
R^2	0.05	0.11	0.07	0.14
N	21,516	45,223	50,869	77,066
Geographical Mobility				
Family Ties	-0.002 (0.72)	-0.001 (0.64)	0.004 (1.80)	0.004 (3.43)**
<i>Controls A&G</i>	YES	YES	YES	YES
R^2	0.38	0.39	0.33	0.37
N	19,610	37,471	35,312	49,818
Elderly LFP				
Family Ties	-0.017 (1.80)	-0.010 (1.37)	0.002 (0.41)	-0.006 (1.43)
<i>Controls A&G</i>	YES	YES	YES	YES
R^2	0.29	0.26	0.26	0.28
N	2,149	4,721	6,006	11,086

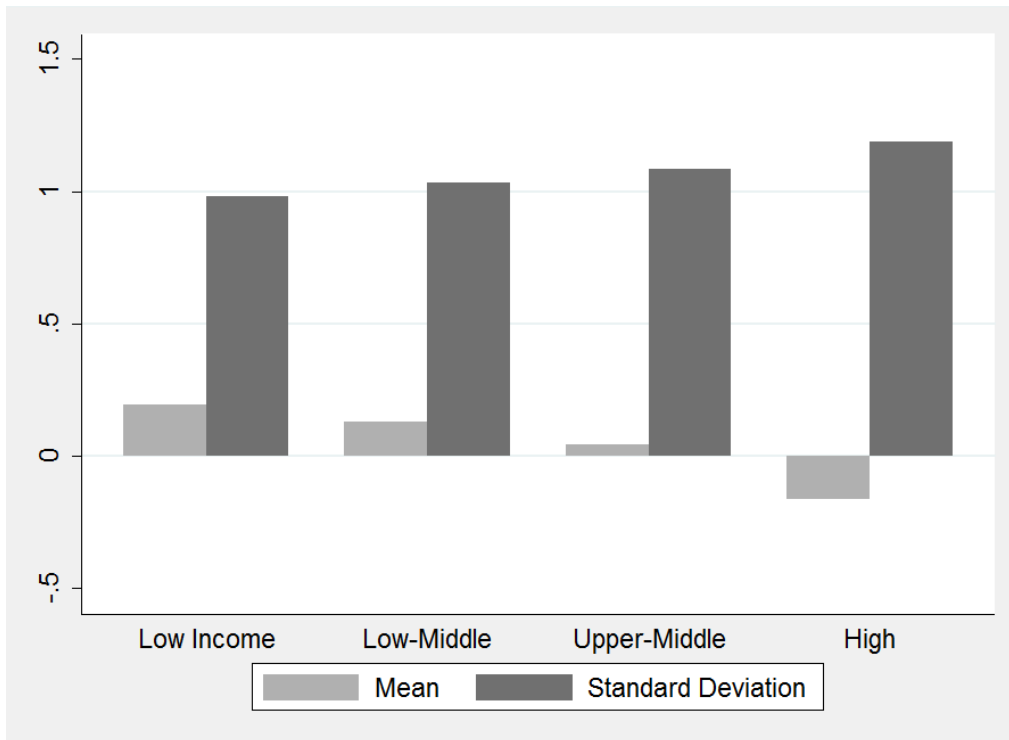
Note: OLS estimations, t-statistics based on robust standard errors between brackets. The dependent variables are: Trust - “Generally speaking would you say that most people can be trusted or that you can’t be too careful in dealing with people?” (1 if the respondent agrees that most people can be trusted); Female, Young and Elderly LFP are dummies equal to 1 if the respondent is active in the labor market, 0 otherwise; Geographical Mobility is a dummy equal to 1 if the respondent lives with his/her parents. Countries are divided into four groups based on Government Effectiveness (see Section 3.2 for details). Control variables in this model include gender, age, age squared, marital status, education level, survey fixed effects, country fixed effects and interactions between country and survey fixed effects. * $p < 0.05$; ** $p < 0.01$.

Table 4: Political Engagement

	Entire Sample	Low Income	Low Middle Income	Upper Middle Income	High Income
Interest in Politics					
Family Ties	-0.013 (7.05)**	-0.016 (2.71)**	0.002 (0.43)	-0.024 (6.47)**	-0.011 (4.02)**
<i>Controls A&G</i>	YES	YES	YES	YES	YES
R^2	0.15	0.11	0.14	0.14	0.17
N	212,931	28,490	47,915	55,254	77,788
Sign Petition					
Family Ties	-0.026 (17.21)**	-0.037 (7.94)**	-0.024 (6.55)**	-0.032 (11.06)**	-0.040 (17.41)**
<i>Controls A&G</i>	YES	YES	YES	YES	YES
R^2	0.28	0.12	0.13	0.18	0.25
N	206,678	26,135	43,409	57,856	76,071
Joining in boycotts					
Family Ties	-0.045 (33.22)**	-0.035 (8.68)**	-0.028 (9.06)**	-0.039 (15.61)**	-0.055 (25.62)**
<i>Controls A&G</i>	YES	YES	YES	YES	YES
R^2	0.19	0.15	0.18	0.14	0.20
N	201,627	26,203	41,992	57,080	73,177
Attending Demonstrations					
Family Ties	-0.031 (20.81)**	-0.022 (4.48)**	-0.022 (6.19)**	-0.023 (8.17)**	-0.040 (17.41)**
<i>Controls A&G</i>	YES	YES	YES	YES	YES
R^2	0.16	0.11	0.16	0.10	0.17
N	207,089	26,527	44,144	57,857	75,382
Joining Strikes					
Family Ties	-0.039 (31.73)**	-0.041 (10.52)**	-0.024 (9.42)**	-0.037 (16.00)**	-0.044 (22.89)**
<i>Controls A&G</i>	YES	YES	YES	YES	YES
R^2	0.11	0.08	0.09	0.09	0.11
N	200,626	26,143	43,673	56,137	71,675
Occupying Buildings					
Family Ties	-0.028 (28.98)**	-0.020 (8.08)**	-0.011 (5.90)**	-0.030 (15.67)**	-0.034 (21.36)**
<i>Controls A&G</i>	YES	YES	YES	YES	YES
R^2	0.10	0.15	0.04	0.08	0.11
N	199,111	25,851	43,534	56,869	69,831

Note: OLS estimations, t-statistics based on robust standard errors between brackets. ‘Interest in politics’ is measured as: “How interested would you say you are in politics? (from (1) not at all interested to (4) very interested). The remaining dependent variables derive from the following question: “I’m going to read out some forms of political action that people can take, and I’d like you to tell me, for each one, whether you have done any of these things (3), whether you might do it (2) or would never under any circumstances do it (1): Signing a petition; Joining in boycotts; Attending lawful demonstrations; Joining unofficial strikes; Occupying buildings or factories.” Countries are divided into four groups based on the World Bank development classification. Control variables in this model include gender, age, age squared, marital status, education level, survey fixed effects, country fixed effects and interactions between country and survey fixed effects. * $p < 0.05$; ** $p < 0.01$.

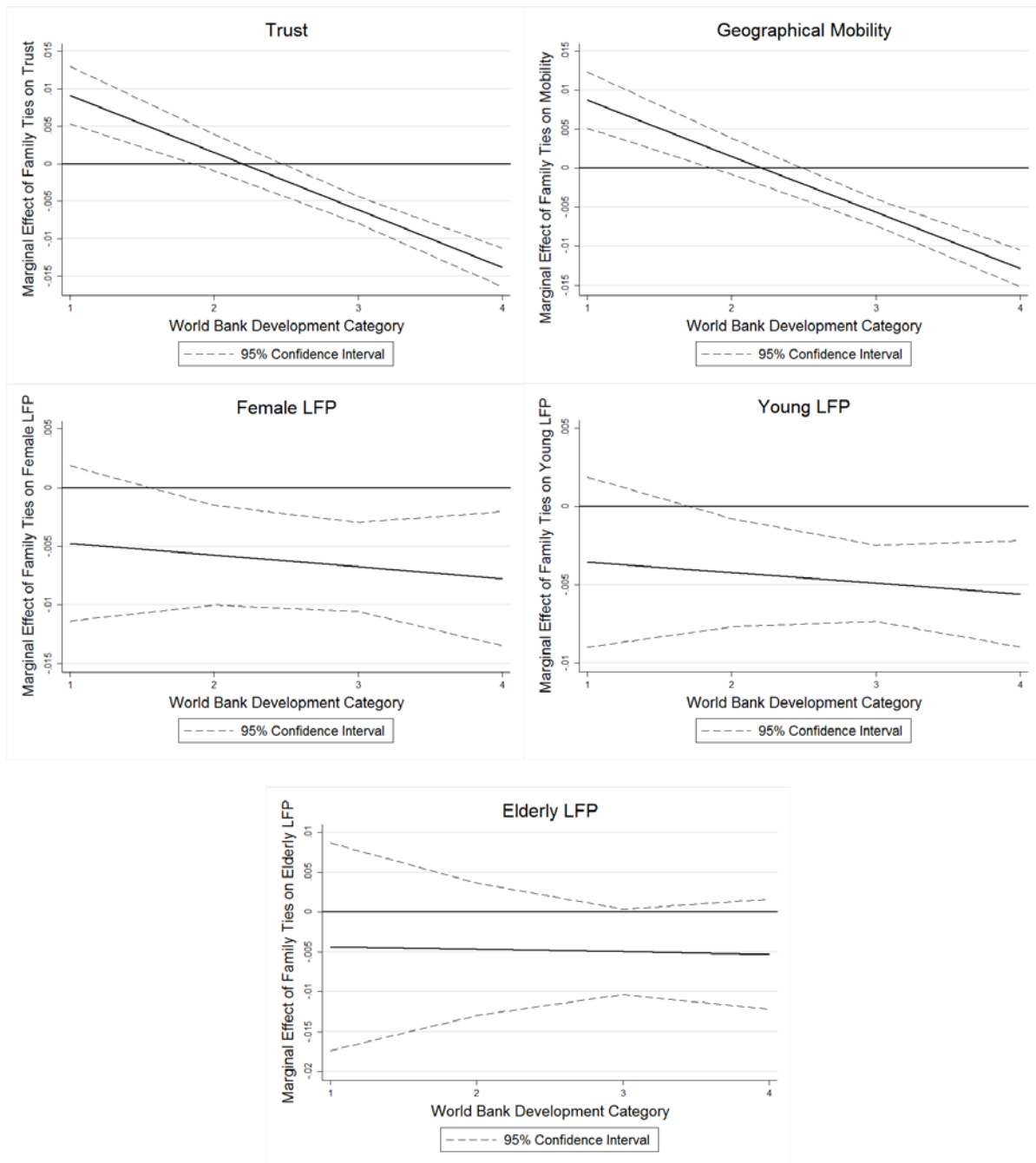
Figure 1 – Family Ties Means and Standard Deviations



Note: The x axis shows the four groups of countries distinguished by the World Bank development classification. The y axis presents average levels and standard deviations of the family ties' variable (higher values correspond to stronger family ties).

Appendix

Figure A.1 – Marginal Effects of Family Ties



Note: Each panel in this figure depicts the marginal effect of strong family ties on the dependent variable across the range of values taken by the World Bank development classification (on the x-axes; 1=low income, 2=low-middle income, 3=upper-middle income and 4=high income). The dependent variables are: Trust - “Generally speaking would you say that most people can be trusted or that you can’t be too careful in dealing with people?” (1 if the respondent agrees that most people can be trusted); Female, Young and Elderly LFP are dummies equal to 1 if the respondent is active in the labor market, 0 otherwise; Geographical Mobility is a dummy equal to 1 if the respondent lives with his/her parents. We show the estimated effect size along with its 95% confidence interval.