Individual and Contextual Factors in Determining Attitudes towards Crime and Punishment

Abstract

The paper looks at the market for crime focusing on attitudes toward punishment and law obedience as expressed and collected by the fifth round of the European Social Survey. We find that highly educated people living in less corrupted countries show relatively more tolerant attitudes towards lawlessness and require less severe punishments for crimes. Compared to the previous literature, it confirms a modern view of fighting crime, based on education and civic sense rather than on fines and jail.

1. INTRODUCTION

Crime negatively affects economies as well as private and business life. Reducing crime works as business-promoting policy and for this reason it has always been considered as one of the most urgent tasks of any public policy agenda. However, how to intervene is still an open question, especially when the main goal is to prevent crime rather than implementing sanctions.

In this paper we examine the determinants of people attitudes toward punishment and law obedience in order to isolate the effect of attitudes on behaviours and to verify what sort of people asks for harsher punishment and stricter law obedience, and why.

The economic approach to crime consists of viewing it simply as a human behaviour motivated by rationality (Becker, 1968), where the crucial role is played by the demand of punishment and by the supply of crime (to be intended as the response of offenders to changes in enforcement).

On the side of the supply of crime, several attempts have been made in the literature to find possible explanations of why people break the law and to isolate the effect of specific features on crime: Muroi and Baumann (2009) find that the effect of wealth on crime in US is non-linear and turns out negative for rich counties and positive for poor counties; Buonanno et al. (2014) find an asymmetric response of crime to variations in unemployment, depending on economic conditions. Looking at more personal issues, a strong finding in criminology is that gender significantly and negatively affect crime in favor of women (Steffenmeier and Allan, 1996); a similar effect has been found also for religion (Baier and Wright, 2001). Similarly, there is strong evidence that education reduces both crime (Buonanno and Leonida, 2006; Freeman, 1996; Gould et al. 2002; Machin and Meghir, 2004; Viscusi, 1986) and the probability of incarceration (Lochner and Moretti, 2004).
On the side of the demand of legality and punishment, public knowledge concerning crime is primarily derived from the media (Roberts and Doob, 1986; Surette, 1998) and empirical studies show a strong positive relationship between fear of crime and media consumption (Barille, 1984; Bryant et al., 1981; Hawkins and Pingree, 1980; Morgan, 1983; Weaver and Wakshlag, 1986; Williams et al., 1982). Evidence from Chicago also shows that poverty and economic recession are associated with higher tolerance of criminal behaviours independently of racial differences (Sampson and Bartusch, 1998).

Great attention has also been devoted in the literature on people beliefs and preferences in order to explain why severity of criminal codes and incarceration rates (Levitte, 2004) significantly vary around the world. Reasons have been traditionally found in both socio-economic factors and in psychological motivations. Di Tella and Dubra (2008) propose a theoretical model in which the demand for punishment is based on beliefs on the economic system that, in turn, produce a difference in meanness. If effort pays, such as in the “American dream” philosophy, being criminal is considered mean and deserves harsh punishment. In this way they explain why, example given, punishment (including death penalty) is harsher in US rather than in most European countries. Nevertheless it is true that asking for harsher punishment is usually associated to blind passion and insecurity, and refers to uncivilized, barbarian societies; whereas democracy and culture, together with higher levels of education and wealth, should work as an effective motivation to respect the law and contribute to determine milder attitudes toward punishment (Beccaria, 1764; Schmideberg, 1960).

Our approach does not directly focus on any of the two sides of the crime market, but tries to reconstruct both indirectly by looking at people attitudes towards punishment and law obedience as they emerge from the fifth round of the European Social Survey (from now on ESS). We have selected three items to capture people beliefs. Precisely, attitudes toward punishment (as expressed by the degree of agreement to the item “People who break the law should be given much harsher sentences than they are these days”) should capture the sense of (un)safeness inside the society and may work as a proxy of the demand for punishment. We find that high educated people living in less corrupted countries show a higher level of safeness or, at least, more tolerant attitudes. The result seems striking because these people are less likely to commit crimes so that their attitudes cannot be interpreted selfishly as a way to avoid harsh punishment. Compared to the previous literature, it rather confirms a modern view of fighting crime, based on education and civic sense rather than on fines and jail.

It makes even more interesting to look at the other side of the hypothetical market for crime to

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1 For a complete survey, see Polinsky and Shavell (2000).
reconstruct the supply of crime, to be intended as a person’s predisposition to become criminal. The difficulty is that nobody would answer to such a direct question sincerely. Our approach is therefore to look at the demand for order and legality (as expressed in the answers to two items in the ESS: “All laws should be strictly obeyed” and “Doing the right thing sometimes means breaking the law”). Showing a strong agreement to the first item and a strong disagreement to the second item could be interpreted as a blind and total trust in the legal system that should not leave room to illegal behaviours. Vice versa, mild answers to both items seem to support a less intransigent approach to law and may hide the answer “yes, I may decide to break the law because it might be the right thing to do”.

In support to this reconstruction, looking at attitudes to reconstruct and possibly anticipate and comprehend future behaviours is well known in the psychological literature (see Ajzen, 1991). And applications can be found in environmental economics (see Koger and Du Nann Winter, 2010), health economics (see Liou and Bauer, 2007) and entrepreneurship (see Kautonen et al., 2013). Our results partially reject the hypothesis that attitudes anticipate behaviours in the context of law obedience. Education and corruption, among all the other variables, seem rather to have an opposite effect on attitudes and on behaviours: highly educated people living in less corrupted countries show milder attitudes toward punishment and law obedience and nevertheless are less likely to commit crimes according to the previous literature. This raises important questions about the social dimension of crime as a complex phenomenon involving the individual’s life within society. On the one hand, do education and wealth work as a consciousness that is an alternative to law to establish what is right and what is not right? On the other hand, does direct experience of corruption and poverty make people desperate to recognize strict law obedience and sanctions as the only hope for a better life?

Before answering these questions, one may ask whether it is methodologically correct to focus on attitudes as they are expressed in a survey. As a matter of fact, this is not the first attempt to analyse and understand people attitudes towards punishment and legality. Using data from the world value survey, Torgler and Schneider (2007) investigated the determinants of attitudes towards paying more or less in taxes from a cross-country perspective, considering the impact of both socio-demographic and cultural background. Further studies have focused on the relationship between education and crime, commonly arguing that education and the associated higher earnings negatively affect both crime (Buonanno and Leonida, 2006; Freeman, 1996; Gould et al. 2002; Machin and Meghir, 2004; Viscusi, 1986) and psychological attitudes towards crime (Arrow, 1997). However, these findings are far from conclusive. Groot and Van Den Brink (2010) found evidence of a relationship between high education levels and attitude towards serious crimes in the
Netherlands. D’Agostino et al. (2013) confirmed these findings in a cross analysis involving most European countries. What is common to all these papers is that each focuses on a particular aspect (media, economic recession, education) to establish the potential effect on attitudes. Our paper puts together individual variables (involving personal features, such as gender, race, education, family), and contextual variables (referring to institutional and economic aspects, such as corruption, GDP, growth, interpersonal safety). To our knowledge, this is one of the first attempts to consider mixed variables, individual and contextual, in a systematic analysis of the determinants of attitudes towards legality and punishment. Our results suggest that both types of variables influence attitudes, but the effect of the individual variables dominates.

The paper is organized as follows. The next section presents the data and the model used in the analysis. The empirical results are then discussed and an interpretation offered which is consistent with the existing literature. Finally, conclusions are drawn.

2. DATA AND METHODS

This work uses cross-sectional data available from the European Social Survey (ESS). ESS is a two-year multi-country survey supported by the European Commission, the European Social Science Foundation and other financing institutions for each participant country (Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Israel, the Netherlands, Norway, Poland, Portugal, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, the United Kingdom, the Ukraine). To give an idea of the size of the sample, 50,668 people were interviewed during the fifth round of the ESS in 2010.

The interviews are conducted anonymously using questionnaires that include some core sections focusing on the socioeconomic characteristics of those in the sample; for this reason, the questionnaires have been reproduced unchanged every two years since the first edition of the survey (2002). Less frequently, the dataset also includes other sub-sections focusing on specific topics: one such sub-section in the fifth round referred to attitudes towards legality and to the level of trust in justice in European countries.

This study consists of an analysis on attitudes, viewed as ‘[…] disposition[s] to react favourably or unfavourably to a class of objects’ (SARNOFF, 1960, p. 279). As the aim is to analyse the determinants of attitudes toward punishments and law obedience, the following three questions were selected from the ESS Round 5 (original item numbers given in parentheses):

1. People who break the law should be given much harsher sentences than they are these days. (Item 1)

2. All laws should be strictly obeyed. (Item 2)
3. Doing the right thing sometimes means breaking the law. (Item 3)
The first item refers to attitudes towards punishments and the second and third items together refer to attitudes towards law obedience. The participants were asked to indicate the extent of their agreement or disagreement with each of these three statements according to a five-point Likert scale. The levels of responses for the items listed above are the dependent variable. The distribution of responses in the selected sample is summarized in Table 1:

[Table 1 about here]

As can be seen, if the low levels of consensus for ‘Strong disagreement’ regarding the first two items are excluded, the distributions of the responses appear relatively balanced among the options presented. For the sake of simplicity of empirical analysis, the responses are divided into two main categories, ‘Agree’ and ‘Disagree’; the former aggregates both the options ‘Strongly agree’ and ‘Agree’, whereas the latter collects the remaining alternatives (‘Neither agree nor disagree’, ‘Disagree’, ‘Strongly disagree’). We have decided to include ‘Neither agree nor disagree’ in the ‘Disagree’ category because of the interpretation of attitudes we propose. If attitudes toward punishment interpret the demand for harsher punishment in that they show a general feeling of unsafeness, showing indifference in respect to the correspondent item cannot be associated to a demand for harsher punishment. A similar argument can be replicated for attitudes toward law obedience (items 2 and 3). The new dichotomous variable used for the empirical analysis shows the following distribution:

[Table 2 about here]

A multilevel logistic model is employed for two reasons: i) the use of a dichotomous response variable; (ii) the hierarchical organization of the data. With regard to the latter, the aim is to capture both individual and institutional aspects in determining attitudes towards legality. Accordingly, countries are at the first level of the hierarchical model and individuals assigned to a given country according to their residence are at the second level. Using a latent variable approach, the model is organized as follows:

where $y_{ij}^*$ is the propensity to agree with each of the statements presented in Table 3; $x_{ij}^T$ is the vector containing the observed covariates at the individual level with the related coefficient $\beta$; $z_i^T$
is the vector of observed covariates at the country level with the related coefficient $\gamma$. This means that every individual $j$ located in the same country $i$ presents identical values of $z_i^T$, but may present different values of $x_{ij}^T$. The error term is decomposed in the form:

$$u_{ij} = \mu_i + \varepsilon_{ij}$$

where the $\mu_i$ component is the country-level variable, whereas the $\varepsilon_{ij}$ component is the country- and individual-level variable.

We assume that, on the one hand, $\mu_i$ has a normal distribution with a mean of 0 and a variance of $\sigma^2_{\mu}$. This means that:

$$\mu_i \sim N(0, \sigma^2_{\mu})$$

On the other hand, to identify the model, it is assumed that $u_{ij}$ has a logistic distribution with a mean of 0 and a variance of $\sigma^2_{\varepsilon} = \frac{\pi^2}{3}$.

Given the purpose of the paper, the role of the intra-class correlation $\rho$ is of great importance in the model. This is defined as follows:

$$\rho = \text{corr}\left[y_{ij}^*, y_{ij}^* \mid x_{ij}, x_{ij}, z_i\right] = \frac{\sigma^2_{\mu}}{\sigma^2_{\mu} + \frac{\pi^2}{3}}$$

The $\rho$ coefficient explains the within-country correlation in predicting the probability an agreement with the items due to unobservable factors.

As already mentioned, the individual variables included in the ESS Round 5 are combined with some contextual variables, taken from different sources (see below). Starting with the first category of variables, as included in the ESS and following GROOT and VAN DEN BRINK (2010) and D’AGOSTINO et al. (2013), the following explanatory variables are used:

a. **Age**: it is a continuous variable expressed in completed years.

b. **Education**: it comprises two separate indicators for the highest level of education, one for the respondent and the other for his/her father. Due to the strong heterogeneity of the education systems among European countries, individuals are compared according to the International Standard Classification of Education (ISCED), created by UNESCO as a worldwide system of classification of education courses and related degrees. Precisely, ISCED level 0–1 refers to children aged 3–11 years and internationally corresponds to pre-primary or primary education; ISCED level 2 corresponds to lower secondary education; ISCED 3–4 means that the respondent completed upper secondary education; ISCED levels
5, 6 and 7 are associated with university education at undergraduate, graduate and postgraduate levels, respectively.

c. **Gender**: female is the reference category.

d. **Employment**: it is ranked in five categories (unemployed, employed, students, pensioners and other).

e. **Children**: it is a dummy variable that takes the value 1 if the respondent (and/or his/her partner) has a child and 0 otherwise.

f. **Born in the country of residence**: it is a dummy variable that takes the value 1 if the respondent was born in the same country as that of residence at the time of the interview and 0 otherwise.

g. **Urbanization level (first residence)**: it is a dummy variable that takes the value 1 if the respondent lives in a large town and 0 if he/she lives in a small town or a village;

h. **Religiosity**: it is a dummy variable derived using an ordinal scale from 1 (the individual reports not being a religious person) to 10 (the individual reports being very religious) based on self-assessment. The dummy takes the value 1 if the level declared is at least equal to 6 and 0 otherwise.

The vector of the contextual variables, that is variables measured at the state level, includes the following:

a. **GDP per capita**: it is the gross domestic product per capita, i.e. the market value of all officially recognized final goods and services produced per capita in the observed country in 2010, measured in thousands of dollars. The source is the World Bank.

b. **GDP growth**: it is the growth rate of GDP between 2009 and 2010. The source is the official report of the World Bank.

c. **Corruption perceptions index**: it is a variable derived from the Corruption Perceptions Index (CPI). According to Transparency International, the CPI is an index measuring the perception of corruption in the public sector and in politics in many countries around the world. It assigns each country a rating ranging from 0 (maximum corruption) to 10 (absence of corruption). The methodology is revised each year to make the index as reliable as possible. The survey was carried out by Universities or other study centres on behalf of Transparency International for the year 2010.\(^3\)

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\(^2\) The category ‘Other’ is a residual category including people involved in community or military service, doing housework, or looking after children or other persons.

\(^3\) There is also in the literature a similar index offered by the World Bank, sampled and used in this study for internal analysis as a proof of robustness. The results are perfectly in line with those of the Transparency International index, selected to diversify the sources of data.
d. Interpersonal safety and trust: it is a variable obtained from the Institute of Social Studies site, measuring (for the year 2010) personal security and trust by using data on general social trust from a wide variety of surveys, indicators of trustworthiness such as reported levels of crime victimization, survey responses on feelings of safety and security in one’s neighbourhood, data on the incidence of homicide and risk reports on the likelihood of physical attack, extortion, or robbery.

e. Legal origin: it is a control variable that classifies the countries as French, English, German, Nordic or Socialist according to the origin of their legal system. As shown by La Porta et al. (2008), legal origin may have an impact on behaviours (and perhaps on attitudes).

Table 3 provides an overview of the variables used in the hierarchical model.

[Table 3 about here]

Because of the high correlation between the Corruption perceptions index and Interpersonal safety and trust (Pearson’s correlation coefficient = 0.67), it was decided to replace these variables with a unique factor, extracted using principal components analysis. The factor, named Control of corruption and interpersonal safety, summarizes approximately 83% of the variability in the two indices and is positively correlated with both the indicators; in other words, the higher the level of the factor, the lower the level of corruption and the higher the level of interpersonal safety and trust in the country.

3. RESULTS

As said in the Introduction, studying attitudes is important, on the side of the demand of justice, in order to comprehend to what extent citizens feel safe and, on the side of the supply of crime, in order to anticipate and possibly prevent future (illegal) behaviours. The three items of the Survey we have analysed cover both these aspects: we claim that the first item refers to the demand of justice and captures the feeling of safeness inside the society, whereas the last two interpret together the tendency of respecting the law and, a contrario, the tendency of committing crimes.

The results of the empirical analysis are summarized in Table 4. Since we have used both individual

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4 According to La Porta et al. (2008), countries in which the legal system originates from the civil law tradition are classified as either French or German depending on whether they derive from the Napoleon code or from Kelsen’s tradition respectively; those in which the legal system originates from the common law tradition are classified as English, Nordic and Socialist and comprise countries in Northern and Eastern Europe respectively.
and contextual variables, we have decided to isolate the effect of the former category and, for this purpose, we propose two columns of coefficients for each item: the first column refers to regressions in which only individual-level variables have been used (and thus the contextual variables take the value 0); the second column includes both the individual and the contextual variables.

[Table 4 about here]

We find that $\hat{\rho}$ is very low with respect to all the items even without including the contextual variables (first columns), showing that most of the variability is due to the individual variables. This is not surprising as attitudes towards punishment and law obedience tend to depend by definition on the individual’s sensitivity towards social norms. Nevertheless, we note that $\hat{\rho}$ decreases in the regressions in which the contextual variables are included (second columns), demonstrating that they contribute to explaining variability at the country level.

A first conclusion is therefore that attitudes towards punishment and law obedience depend primarily on personal characteristics.

We now interpret our results in order to answer the following questions: what does determine people demand for harsher punishment? Are attitudes toward law obedience informative about a person’s tendency of breaking laws?

To answer these questions, we first look at the three items together. What immediately emerges is that some variables are significant in respect to all the three items: Education, Gender, Employment, Urbanization level of first residence, Corruption and Interpersonal safety. These ‘core variables’ affect the first two items (‘People who break the law should serve more severe punishments than today’ and ‘Laws should be strictly observed’) in the same way as shown by the coefficient signs, whereas the opposite results arise with respect to the third item (‘Doing the right thing sometimes means breaking the law’). It is not surprising that people who do not believe that tougher punishments should be applied are also those who do not believe that laws should be strictly observed, but rather agree that breaking the law is sometimes the right thing to do. What is surprising is the sort of people expressing such tolerant opinions concerning crime and punishment. Indeed, what emerges from the regressions is that tolerance is supported for all the core variables except Employment. In other words, it seems that highly-educated males, especially students, living in large urban areas and in less corrupt countries show milder and more tolerant attitudes towards punishment and law obedience in that they tend to agree that breaking laws is sometimes the right thing to do. Precisely, the result for Employment, combined with that for Education, suggests that low-skilled people looking for a job are less tolerant than low-skilled employed people, who are in
turn less tolerant than highly-skilled employed people. By the way, it cannot be meaningless that Education is more significant and plays a greater role in respect to all the items only at the highest ISCED level (≥ 5). An identical result can be observed looking at the effect of Father’s education on attitudes: although there is no ISCED level turning out significant for all the three items, it is clear that this variable plays a role, especially in influencing attitudes toward punishment.

What follows is that, on the one hand, people trust each other to the extent that they accept that breaking the law might be the right thing to do in some circumstances; on the other hand, it is well known that education and culture serve as better motivation than harsher punishments. Some of these results simply confirm the existing literature, such as the role of Education with respect to items 2 and 3 (D’Agostino et al., 2013; Groot and Van Den Brink, 2010), which is also confirmed with respect to item 1.

This interpretation is corroborated by the effect of the remaining core variables, Urbanization level and Corruption and Interpersonal safety. About the former, rebus sic stantibus, it seems that living in big towns makes people more tolerant despite the evidence in favour of small towns where the crime rate tends to be lower. Again a so surprising effect can be justified in the light of the different cultural and educational level characterizing small and big towns in favour of the latter.

About Corruption and Interpersonal safety, keeping in mind that higher values are associated with lower levels of corruption and higher safety perception in the country analysed, a negative coefficient means that people living in less corrupt countries show more tolerant attitudes towards crime and punishment. In light of previous considerations, we can conclude that if sound institutions are associated with social order and stability and therefore low corruption and high safety, people living in countries in which laws are commonly observed tend to be more tolerant because breaking laws is considered an exceptional event that does not affect the quality of their daily lives. Accordingly, they also realize that tougher punishments may not be effective in combating crime. Conversely, those accustomed to living in degraded environments, in which laws are commonly unobserved, tend to be strict and intransigent because they desire order and social respect.

Even if not included into the core variables, also Legal origin seems to play a significant role in respect to both attitudes toward punishment and attitudes toward law obedience limited to item 2: not surprisingly all categories (German, English, Nordic and to a slightly lower extent, French) are associated with less indulgent positions than the Socialist category. However, Legal origin does not play a significant role in determining whether people may find it right to break the law (item 3), so it cannot be said that it helps explain attitudes as well as behaviours. In contrast, GDP per capita is significant only for the third item, whereas no significant effect can be attributed to GDP growth.
Finding support for this result is difficult as there is a general consensus in the literature that high wages have a strong and consistent deterrent effect on crime (see Calvò-Armengol et al., 2007; Myers, 1983). However, high wages usually correspond to high-skilled (and therefore highly-educated) employees, so that the result has to be interpreted in a similar way of what already said for Education and Employment status.

Moving far from the core variables, we find that other explanatory variables are significant to explain only one of the two attitudes analysed and therefore require a differentiated analysis.

On the side of the demand of punishment Children turn out significant, whereas attitudes toward law obedience are also influenced by Age, Religiosity, Born in the country and GDP. Among these variables, special attention should be devoted to Children and Religiosity. On the one hand, it is not surprising that both variables make people more intransigent: the significant and positive effect of Children on attitudes toward punishment can be easily explained by the visceral and blind desire to protect children (see Welch, 2011), and the significant and positive (negative) effect of Religiosity on answers to the second (third) item finds support in the existing literature that religion can play a deterrent effect on crime (Baier and Wright, 2001) given that most crimes correspond to sins in most religions practised in Europe. On the other hand, it is certainly striking that Children and Religiosity do not significantly affect respectively attitudes toward law obedience and punishment. Focusing on the former variable, parents are expected to teach their children what is allowed and what is forbidden; looking at the latter variable, most religions (including those mainly practised in Europe) claim serious punishment for sinners after death. On a deeper thought, this result can be explained as follows: even assuming that most parents teach their children to respect the law, it does not mean that being parents change a person’s view of whether laws should be always strictly obeyed or not. Similarly, being religious has not to be associated to a demand of harsher punishments, but should rather make people more prone to forgive, as shown by Sandys and McGarrell’s (1997) with respect to attitudes towards capital punishment. Moreover, and more importantly, the two results together seem to support the claim that people responses are based on their perceived sense of safeness, so that attitudes may be informative in this sense, especially those toward punishment where respondents have no reason to lie. We can therefore conclude that the demand for harsher punishment follows unsafeness, as procured by high corruption levels and low education levels.

The analysis becomes rather complicated turning to attitudes toward law obedience (items 2 and 3) as indirect expression of the tendency of respondents to respect/break the law. Before drawing some conclusive remarks, we have to say that also Age and Born in the country of residence show a significant effect of making people more intransigent. On the one hand, the strain
theory (Agnew, 2009) helps explain the result about Age stating that adolescents are more exposed than adults to the experience of strain that leads to crime. However, the coefficient we find is so low (0.010 and -0.005 respectively for the second and the third item) that it cannot support the thesis that young people are less prone to obey the law. On the other hand, the effect of immigration is controversial. Bianchi et al (2012) and Martens (1997) find evidence respectively for Italy and Sweden that the size of the immigrant population is positively correlated only with the incidence of specific types of crime, such as robbery or violent crime. Butcher and Morrison Piehl (1998) find that cities with high crime rates tend to have large numbers of immigrants, but youth born abroad are statistically significantly less likely than native-born youth to be criminally active.

Comparing our results with the existing literature on the supply of crime (see the Introduction), the effects of Education and Corruption on attitudes and behaviours clearly go to opposite directions, making people attitudes more tolerant and behaviours more legally oriented. On the contrary, Age, Religiosity, Gender (Female) and, to some extent, Employment status, Born in the Country of Residence and Urbanization level show effects on attitudes more aligned to those on behaviours. We can therefore conclude that attitudes serve the purpose of explaining behaviours only partially because civic sense and culture make the difference.

4. CONCLUSION

Using data from the fifth round of the European Social Survey, this study has focused on the determinants of attitudes towards punishment and law obedience, testing the effect of individual variables previously used in the literature (D’Agostino et al., 2013; Groot and Van Den Brink, 2010), together with certain contextual variables which, to the best of our knowledge, have never previously been used for this purpose.

The results show that individual factors explain most of the variability at the country level, but that contextual variables also make a contribution.

We see that the demand for harsher punishment is mainly due to unsafeness: highly educated people living in non-corrupted countries feel more secure or, at least, believe that punishments have not to be harsher. A similar effect emerges turning to attitudes toward law obedience. In particular, the negative effect of Control of corruption and interpersonal safety proves that the institutional context plays a significant, though unexpected, role. If, on the one hand, good institutions promote social order and legality and work as a constraint against breaking the law, on the other hand, they allow more tolerant attitudes towards crime and punishment.
REFERENCES


BECCARIA C. (1764) Dei delitti e delle pene. Marco Coltellini, Livorno;


SAMPSON R. J. and BARTUSCH D. J. (1998) Legal cynicism and (subcultural?) tolerance of
deviance: The neighborhood context of racial differences, Law and Society Review 32(4), 777-804;

SANDYS M. and MCGARRELL E. F. (1997) Beyond the Bible belt: The influence (or lack
thereof) of religion on attitudes toward the death penalty, Journal of Crime and Justice 20(1),
179-190;


and Criminology 51, 328-334;


from multicultural European countries, Social Science Quarterly 88(2), 443-70;


WEAVER J. and WAKSHLAG J. (1986) Perceived vulnerability to crime, criminal experience and
television viewing, Journal of Broadcasting and Electronic Media 30, 141-58;

WELCH K. (2011) Parental status and punitiveness: Moderating effects of gender and concern
about crime, Crime and Delinquency 57(6), 878-906;

### Table 1. Frequencies of attitudes towards crime (ESS Round 5)

<table>
<thead>
<tr>
<th>Attitude</th>
<th>Agreeing with the statement</th>
<th>Strongly agree</th>
<th>Agree</th>
<th>Neither agree or disagree</th>
<th>Disagree</th>
<th>Strongly disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>People who break the law should be given much harsher sentences than they are these days</td>
<td>12,540 (25.07%)</td>
<td>11,752 (23.86%)</td>
<td>22,365 (45.41%)</td>
<td>10,332 (20.98%)</td>
<td>4,241 (8.61%)</td>
<td>560 (1.14%)</td>
</tr>
<tr>
<td>All laws should be strictly obeyed</td>
<td>26,060 (52.09%)</td>
<td>20,175 (42.26%)</td>
<td>3,276 (6.86%)</td>
<td>12,507 (26.20%)</td>
<td>9,678 (20.27%)</td>
<td>368 (0.74%)</td>
</tr>
<tr>
<td>Doing the right thing sometimes means breaking the law</td>
<td>3,276 (6.86%)</td>
<td>20,175 (42.26%)</td>
<td>3,276 (6.86%)</td>
<td>12,507 (26.20%)</td>
<td>9,678 (20.27%)</td>
<td>368 (0.74%)</td>
</tr>
</tbody>
</table>

### Table 2. Frequencies of attitudes towards crime (re-coded)

<table>
<thead>
<tr>
<th>Attitude</th>
<th>Agreeing with the statement</th>
<th>Agree</th>
<th>Disagree</th>
<th>Strongly disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>People who break the law should be given much harsher sentences than they are these days</td>
<td>38,600 (77.16%)</td>
<td>34,117 (69.27%)</td>
<td>15,133 (30.73%)</td>
<td>560 (1.14%)</td>
</tr>
<tr>
<td>All laws should be strictly obeyed</td>
<td>23,451 (49.12%)</td>
<td>38,600 (77.16%)</td>
<td>11,428 (22.84%)</td>
<td>368 (0.74%)</td>
</tr>
<tr>
<td>Doing the right thing sometimes means breaking the law</td>
<td>49,121 (99.12%)</td>
<td>23,451 (49.12%)</td>
<td>24,284 (49.12%)</td>
<td>2,099 (4.40%)</td>
</tr>
</tbody>
</table>

### Table 3. List of explanatory variables in the model

<table>
<thead>
<tr>
<th>$X_{ij}^T$</th>
<th>$Z_{i}^T$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age (in years)</td>
<td>Gross domestic product (GDP) per capita (thousands of dollars)</td>
</tr>
<tr>
<td>Education ($ISCED &lt; 2$, $ISCED = 2–3$, $ISCED = 4$, $ISCED \geq 5$)</td>
<td>Gross domestic product growth (GGDP) (%)</td>
</tr>
<tr>
<td>Father’s education ($ISCED &lt; 2$, $ISCED = 2–3$, $ISCED = 4$, $ISCED \geq 5$)</td>
<td>Legal origin (French, German, Scandinavian, English, Nordic, Socialist)</td>
</tr>
<tr>
<td>Gender (male, female)</td>
<td>Corruption perceptions index (CPI), Transparency</td>
</tr>
<tr>
<td>Employment status (unemployed, employed, student, retired, other)</td>
<td>Interpersonal Safety and Trust Index, Institute of Social Studies</td>
</tr>
<tr>
<td>Number of children ($0; \geq 1$)</td>
<td></td>
</tr>
<tr>
<td>Born in the country of residence (no, yes)</td>
<td></td>
</tr>
<tr>
<td>Urbanization level of first residence (small town, large city)</td>
<td></td>
</tr>
<tr>
<td>Religiosity ($1–5$, $6–10$)</td>
<td></td>
</tr>
</tbody>
</table>
Table 4. Empirical results of regression analysis

<table>
<thead>
<tr>
<th>People who break the law should be given much harsher sentences than they are these days</th>
<th>All laws should be strictly obeyed</th>
<th>Doing the right thing sometimes means breaking the law</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Context variables</strong></td>
<td><strong>Control of corruption and interpersonal safety</strong></td>
<td>-0.328***</td>
</tr>
<tr>
<td></td>
<td>GDP per capita</td>
<td>-0.012</td>
</tr>
<tr>
<td></td>
<td>GGDP</td>
<td>-0.014</td>
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<tr>
<td><strong>Legal origin</strong></td>
<td>Socialist</td>
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<tr>
<td></td>
<td>French</td>
<td>0.464</td>
</tr>
<tr>
<td></td>
<td>German</td>
<td>0.919***</td>
</tr>
<tr>
<td></td>
<td>English</td>
<td>0.948***</td>
</tr>
<tr>
<td></td>
<td>Nordic</td>
<td>0.733**</td>
</tr>
<tr>
<td><strong>Education of the respondent</strong></td>
<td>Age</td>
<td>0.001</td>
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<tr>
<td></td>
<td>ISCED &lt; 2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>ISCED 2</td>
<td>-0.080*</td>
</tr>
<tr>
<td></td>
<td>ISCED 3-4</td>
<td>-0.091**</td>
</tr>
<tr>
<td></td>
<td>ISCED ≥ 5</td>
<td>-0.480***</td>
</tr>
<tr>
<td><strong>Father’s education</strong></td>
<td>Father’s education</td>
<td>ISCED &lt; 2</td>
</tr>
<tr>
<td></td>
<td>ISCED 2</td>
<td>-0.080**</td>
</tr>
<tr>
<td></td>
<td>ISCED 3-4</td>
<td>-0.080**</td>
</tr>
<tr>
<td></td>
<td>ISCED ≥ 5</td>
<td>-0.269***</td>
</tr>
<tr>
<td><strong>Gender</strong></td>
<td>Gender</td>
<td>Female</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>-0.180***</td>
</tr>
<tr>
<td><strong>Employment status</strong></td>
<td>Employment status</td>
<td>Unemployed</td>
</tr>
<tr>
<td></td>
<td>Employed</td>
<td>0.124***</td>
</tr>
<tr>
<td></td>
<td>Student</td>
<td>-0.101**</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>0.142***</td>
</tr>
<tr>
<td></td>
<td>Retired</td>
<td>0.178***</td>
</tr>
<tr>
<td><strong>Number of children</strong></td>
<td>Number of children</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>≥ 1</td>
<td>0.098***</td>
</tr>
<tr>
<td><strong>Born in the country of residence</strong></td>
<td>Born in the country of residence</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>-0.043</td>
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<tr>
<td><strong>Urbanization level (first residence)</strong></td>
<td>Urbanization level (first residence)</td>
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</tr>
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<td></td>
<td>Big city</td>
<td>-0.092***</td>
</tr>
<tr>
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<td>Not religious</td>
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<tr>
<td></td>
<td>Religious</td>
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<td><strong>Observations</strong></td>
<td>Observations</td>
<td>49,017</td>
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