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Does Social Capital Matter? A Study of Hit-and-Run in US Counties

Abstract

We investigate the relationship between social capital and the decision to flee after a fatal road accident. This event is unplanned, and the decision is taken under great emotional distress and time pressure, thus providing a test of whether social capital matters for behaviour in extreme conditions. We merge data from the universe of fatality accidents involving pedestrians in the US over the period 2000–2018 with a unique dataset on social capital measures at the county level. Using within-state-year variation, our results show that one standard deviation increase in social capital is associated with a reduction in the probability of hit-and-run of around 10.5%. The causal interpretation of this evidence is supported by a number of falsification tests based on differences in social capital endowment between the county where the accident occurs and the county where the driver resides, as well as by the IV approach proposed by Lewbel (2012). Our findings show the importance of social capital in a new context, suggesting a broad impact on pro-social behaviour and adding to the positive returns of promoting civic norms.

JEL-Codes: Z130, D910, K420, R410.

Keywords: social capital, crime, hit-and-run, road accidents.

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1. INTRODUCTION

Social (or civic) capital can be defined as "those persistent and shared values and beliefs that help a group overcome the free rider problem in the pursuit of socially valuable activities" (Guiso, Sapienza, and Zingales, 2011). In this paper, we study the role of social capital in the decision to flee after a fatal road accident. This decision is taken under great emotional distress and time pressure, following an unplanned and dramatic event. Finding a role for social capital within these extreme conditions represents a new test of the importance of social capital in guiding behaviour, highlighting how it functions even in a fast, instinctive, and emotional setting, or "System 1" in the language of Kahneman (2011).

We contribute to the strand of research analysing whether pro-social attitudes matter in extreme and high-pressure situations (see, for instance, Frey et al., 2010; Frey et al., 2011; Elinder and Erixson, 2012; Sach and Whynes, 2012; Savage, 2013; Savage, 2016). Furthermore, we offer new insights about the impact of social capital on socio-economic outcomes and the heterogeneity of such effects.¹ Hit-and-run road accidents also represent a relevant context in which to study the role of social capital because they are an important phenomenon. According to the AAA (American Automobile Association) Foundation for Traffic Safety, more than one hit-and-run crash happens every minute in the US. At the same time, in 2015, these types of accident were responsible for 1,819 fatalities (5.1% of the total fatalities in road accidents) and 138,500 serious injuries (5.9%), with a stable increase in recent years.² Twenty-one percent of pedestrian deaths in 2019 occurred in hit-and-run crashes, for a total of 1,290 victims.³

¹ Over the last decades, the literature has stressed the central role of social capital in the functioning of communities (Putnam, 1995; Putnam, 2000; Fukuyama, 1995) and in economic prosperity (see Durlauf and Fafchamps, 2005, for a review of the economics literature). Social capital is associated with higher economic (Tabellini, 2010) and financial development (Guiso et al., 2004), higher and more equal incomes (Knack and Keefer, 1997), higher political accountability (Nannicini et al., 2013), positive health outcomes (Folland, 2007; Xue et al., 2020), fewer Covid-19 cases per capita (Barrios et al., 2021; Bartscher et al., 2021; Durante et al., 2021), and lower crime rates (Lederman et al., 2002; Buonanno et al., 2009). For the impact of the profound social capital heterogeneity that characterises the US, see, for instance, Putnam (1995) and Alesina and La Ferrara (2000).

² See https://aaafoundation.org/hit-and-run-crashes-prevalence-contributing-factors-and-countermeasures/.

³ Source: https://www.iihs.org/topics/fatality-statistics/detail/pedestrians.

In our empirical analysis, we merge 2000–2018 data from the universe of fatal road accidents in the US – retrieved from the Fatality Accident Reporting System (FARS) – with a unique dataset on social capital measures at the county level coming from The Geography of Social Capital in America (2018) project. We focus on accidents that involve pedestrians – representing 59.3% of all hit-and-run accidents – because in these cases the car and the driver usually report negligible damages, and therefore the driver is not forced to stay. Using a number of variables that capture different dimensions of social capital, we find a robust negative association with the probability to flee after a crash.

This relationship could be driven by extrinsic or intrinsic motivation. As to the former, social capital improves civic engagement, informal social control and law enforcement which, in turn, increases the probability of punishment (Sampson, 1988; Buonanno et al., 2009; Ferrer, 2010; Akçomak and Ter Weel, 2012). Furthermore, in areas characterized by high social capital, reputation is important for social acceptance (Williams and Sickles, 2002). In such a context, people are more likely to punish those who violate social norms and do not cooperate (Williams and Sickles, 2002; Akçomak and Ter Weel, 2012); committing a crime might lead to a loss of social network and force the perpetrator outside the community, therefore increasing the economic cost of detection.

Concerning intrinsic motivations, when social capital is high, individuals may have internalized a sense of duty that increases the moral cost of crime. As an example, in the experimental studies by Cohn et al. (2019) and Tannenbaum et al. (2020), generalized morality – a propensity to follow norms of appropriate behaviours toward strangers beyond family, kinship or social group (Tabellini, 2008; Enke, 2019) – increases the reporting of lost wallets. In a similar vein, the literature investigating the determinants of tax evasion has shown that "tax morality" is affected not only by the cost of punishment, but also by social norms and networks (see, for instance, Frey 1997).

In our empirical analysis, we find evidence that both mechanisms are at play. In particular, the likelihood of detection after a hit-and-run is indeed higher in communities with stronger social capital. Moreover, drivers appear to be responsive to the social capital of their county of residence rather than that of the county where the accident happens, when these two locations differ, suggesting that they have internalized norms of behavior.

A potential concern for our analysis is that the relationship between social capital and hit-and-run could be non-causal. Reverse causality is unlikely to be an issue, given that social capital is usually considered a slow-moving variable with deep historical roots (Putnam et al., 1994; Fukuyama, 1995; Guiso et al., 2008). Moreover, while hit-and-run road accidents are dramatic events that might have an impact on the community, they are far less common than other violent crimes that can shape people's mentality (e.g., in the period we consider, there are on average 1,945 hit-and-runs per year vis-à-vis 16,425 murders and 139,815 rapes in 2019).⁴

Omitted variables represent instead a potential threat. In our regressions we control for a rich set of socio-economic characteristics at the county level, such as GDP per capita, unemployment rate, share of blacks. Nevertheless, omitted variables at the county level might indeed affect both the level of social capital and the likelihood of hit-and-run. For instance, urban features may have an impact on social capital by favouring social interaction, and they may also have an impact on hit-and-run, for instance, by making the possibility of fleeing more complicated from a logistical point of view. If this were indeed the case, then we would expect the negative relationship between social capital and the likelihood of fleeing to be the same irrespective of whether the driver is a local or not. If, instead, the relationship we observe at the county level is causal, then we would expect to see a stronger relationship for local drivers than for those who are not local. To deal with this problem, we perform different falsification tests. Our results show that the magnitude of the effect of social capital on the likelihood of fleeing is higher in relative terms on local streets – more frequented by local drivers – than on other roads. Similarly, by exploiting the ZIP code of the driver when known, we show a

⁴Source: https://ucr.fbi.gov/crime-in-the-u.s/2019/crime-in-the-u.s.-2019/topic-pages/violent-crime, accessed on October 21, 2021.

negative and statistically significant relationship between the probability of fleeing and local social capital only for local drivers and not for those who are out-of-county. These findings suggest that location-specific features are not driving the correlation between our two variables of interest, thus corroborating a causal nexus. Finally, we implement the IV approach based on the heteroscedasticity of the error term that has been proposed by Lewbel (2012). The results support the appropriateness of the analysis.

The remaining of this paper is organised as follows: Section 2 describes the data and provides descriptive statistics, Section 3 presents the econometric methodology and results. In Section 4, we address the causality of the effect and investigate some potential channels, while Section 5 offers conclusions.

2. DATA AND DESCRIPTIVE STATISTICS

2.1 Data

Data about fatal accidents involving pedestrians come from the Fatality Accident Reporting System (FARS), a surveillance system operated by the US Department of Transportation (DOT)'s National Highway Traffic Safety Administration (NHTSA). Specifically, the authorities report to this system each motor vehicle collision that occurred on public roadways with one or more fatalities within 30 days of that collision. The FARS data make it possible to define the picture of the accident in terms of location, hour, the number of participants and their characteristics, type of vehicles involved, weather condition, road type and so on.⁵ The main variable of interest for this investigation, "HitRun", refers to "cases where a vehicle is a contact vehicle in the crash and does not stop to render aid (this can include drivers who flee the scene on foot)". Around 18% of fatal accidents involving pedestrians

⁵ See the Fatality Analysis Reporting System: https://www.nhtsa.gov/research-data/fatality-analysis-reporting-system-

are hit-and-run, a number that is rather stable during the period analyzed. Data on drivers' characteristics such as age, sex, alcohol use, previous license suspension and so on, are available only for those drivers who did not flee or who did flee but have been subsequently identified. Note that the share of identified drivers is 48%.⁶

Regarding social capital, in the literature there are different approaches to its measurement, as social capital is a multifaceted concept (Dasgupta and Serageldin, 2000; Paldam, 2000; Christoforou, 2013). Conceptually, social capital has been associated, for instance, with trust towards other people and institutions, and firm performance (Fukuyama, 1995; Glaeser et al., 2000; Guiso et al., 2008; Akçomak and Ter Weel, 2009; Lins et al., 2017; Stiglitz et al. 2018, Chapter 10); membership in groups, networks and voluntary associations (Putnam et al., 1994; Alesina and La Ferrara, 2002; Sobel, 2002); membership and trust (Lochner et al. 2003; Vincens et al., 2018); membership, trust, and norms of reciprocity (Putnam, 2000; Bigoni et al., 2016). Operationally, higher voter turnout and association density are hypothesised to capture civic involvement and participation in community decision making, while voluntary donations capture the strength of intermediate social structures (e.g., Putnam et al., 1994; Putnam, 2000; Cartocci, 2007; Buonanno et al., 2009). Guiso et al. (2004) suggest using voluntary blood donations as an indicator of civic engagement, as the latter is higher when people care more for each other.

In this study, we exploit the social capital indicators provided by "The Geography of Social Capital in America" (2018) project (employed, among others, by Ding et al., 2020; Borgonovi et al., 2021; Milosh et al., 2021).⁷ An important feature of this indicator is that it is at the county-level. In

⁶ If the driver is classified as a hit-and-run driver, but there is information on the driver (for instance: sex, age), we conclude that s/he has been identified by the authorities. We do not know whether the driver has reported him- or herself voluntarily to the police sometime after the accident, or has been identified due to police investigation.

⁷For detailed information on this data, refer to https://www.jec.senate.gov/public/index.cfm/republicans/2018/4/the-geog-raphy-of-social-capital-in-america.

particular, the social capital index is a proxy that aggregates information on four sub-indexes: (1) family unity, based, for instance, on the data on marital status or births out of wedlock; (2) community health, based on the data on non-profits, volunteering, civic participation and so on; (3) institutional health, based on the data on voter turnout, trust and confidence in institutions, mail-back response rates for the census; (4) collective efficacy, based on the data on violent crime. A higher score implies higher social capital.⁸ The social capital indicator is also available at the state level in an extensive form. Beyond the previously mentioned sub-indexes, the state-level index is also composed of the following additional sub-indicators: (5) family interaction, based, for example, on data about daily activities with children; (6) social support, based on data about the number of close friends, trust and interaction with neighbours; (7) philanthropic health, based on data about the share of people reporting donations to charitable groups. Table A8 in the Appendix offers a comprehensive description of these additional state-level sub-indexes.

Finally, we collect from the Census Bureau and the US Bureau of Economic Analysis data at the county or state level on socio-economic variables such as GDP per capita, total population and unemployment rate. The share of Catholics is retrieved from the ARDA (Association of Religious Data Archive),⁹ while information on health facilities is collected from the Area Health Resources Files (AHRF).¹⁰

2.2 Descriptive Statistics

Table 1 reports a detailed description and the main summary statistics of the variables used in the econometric analysis. Between 2000 and 2018 in the US, there have been 118,688 road accidents involving pedestrians with a share of hit-and-run of around 18%, which in absolute terms amount to 21,363

⁸ See Table A7 in the Appendix for details on the variables and sources employed to define the index and the sub-indexes at the county level.

⁹ For further details, see: https://www.thearda.com/archive/browse.asp.

¹⁰ See: https://data.hrsa.gov/topics/health-workforce/ahrf.

accidents. The dependent variable in the main econometric analysis (HITRUN) is a dummy equal to 1 if the driver fled the crash scene. In the case of hit-and-run, 48% of drivers are identified after leaving the scene of the accident.¹¹

We have standardized the overall social capital index and the four sub-indexes to make results easier to interpret so that they all have mean 0 and standard deviation 1. Table A1, in the Appendix, shows the correlation matrix, from which it emerges that, while the different indexes of social capital usually have a positive correlation with each other, they are not collinear.

As control variables, we use a set of dummies to account for road and accident characteristics such as the place where the accident occurred (LOCALSTREET or URBAN area), light (DAILYLIGHT) and weather (CLEAR_WEATHER) conditions, road characteristics (HIGHSPLIM – for speed limits over 50 mph – and TWOWAY), and HOLIDAY. According to the literature on hit-and-run (Solnick and Hemenway, 1994, 1995; Johnson, 1997; Tay et al., 2008, 2009; MacLeod et al., 2012), these variables influence the choice to flee or stay, because, for instance, they affect the probability of identification. Indeed, a crash during rain and wind, under poor lighting, or in a rural area might induce drivers to flee as it is less likely to be identified by witnesses. Alcohol or drug consumption are important determinants as well since they alter the perception of risk and, in the case of culpability, could aggravate the severity of the penalty. Some of the variables above, e.g., HOLIDAY, capture differential consumption patterns over time, and we also include a dummy variable equal to 1 (DRY) if the county is dry.¹²

Socio-economic features at the county level include the unemployment rate (UNRATE), the real GDP per capita (RGDPPC), the hospital density (HOSPITAL), the share of Catholics (SHARE_CATH),

prohibit off-premises sale, some prohibit on-premises sale, and some prohibit both. Several dry counties exist across the

¹¹ It is worth mentioning that the number of observations for the variable IDENTIFIED is slightly lower than 21,363, because in the case of 451 drivers we are unable to retrieve information on whether or not the driver has been identified. ¹² In the US, a dry county is a county whose local government forbids the sale of any kind of alcoholic beverage. Some

and the share of black people (SHARE_BLACK). Macroeconomic factors are related to poverty, criminality and security on the road (i.e. use of surveillance cameras) which might influence the probability of fleeing. The healthcare system affects the chances of survival after a crash, thus having an impact on the likelihood of the accident actually being fatal and, thus, being included in the dataset. The share of Catholics could matter because of differences in moral attitudes (e.g., sense of guilt) which may affect the decision to leave the scene of the crash. Furthermore, in areas with a higher proportion of black people, greater fear of authorities may reduce the likelihood of witnesses coming forward, which in turn affects the chance to flee undetected. We also include a dummy equal to 1 if the county borders Mexico (MEX_BORDER), as having an accident close to the Mexican border might facilitate escape from the authorities. Finally, in some specifications, we also control for characteristics of the victim, such as gender (MALE_PED), age (AGE_PED), and ethnicity (WHITE_PED).

The share of hit-and-run is higher at night (between midnight and 4.00 am), during the weekend, on local streets and in urban areas (see Table 2).

[Table 1 and 2]

In Figure 1 and Figure 2, we visually inspect the relationship between social capital and pedestrian hit-and-run crashes.¹³ As we can see from Figure 1, the higher social capital level is registered in the West North Central census division, the northern part of the Mountain division and the Pacific division. A higher level of social capital also appears in Wisconsin, Illinois and the New England division.

[Figure 1]

Looking at Figure 2, the lowest percentages of hit-and-run are in the West North Central division, part of New England and the northern part of the Mountain division. Similarly, many counties present

¹³ Figures A1 to A4, in the Appendix, report the maps for the social capital sub-indexes.

low hit-and-run incidence in the northern area of the Pacific and West South-Central divisions. On the contrary, higher percentages of hit-and-run are found in the southern counties of the West and South regions. Comparing Figures 1 and 2, there seems to be an inverse relationship between the share of hit-and-run in pedestrian accidents and social capital.

Note that, in any case, these regional differences are not relevant for the econometric analysis, as we include state-year fixed effects.

[Figure 2]

Finally, before moving to the econometric analysis, Figure 3 plots the social capital and hit-andrun at the county level (see Figures A5-A8 in the Appendix for the same with the sub-indexes of social capital). Here, we see a negative correlation between these two variables (r = -0.13). Note that in counties with a low population, there may be very few fatal accidents involving pedestrians, even over the relatively long time period we consider. Therefore, there is a mass around "round" shares like 0%, 33%, 50% and so on. See Figures A9 and A10 in the Appendix for a plot of the number of accidents and the share of hit-and-run by county. Notice that in the econometric analysis, the unit of observation is the single accident, so counties with no crashes involving pedestrians over the time period we consider is not an issue.

[Figure 3]

3. ECONOMETRIC MODEL AND RESULTS

3.1 Preliminary Analysis

For a first glance at the relationship between social capital and hit-and-run, we start from the aggregate state level. Specifically, we estimate a model in which the dependent variable is the percentage of hit-and-run in a state during the whole period (2000–2018). Given the proportional nature of the dependent variable, we rely on a fractional logit regression (Papke and Wooldridge, 1996). The main variable of interest is the social capital indicator at the state level (and its sub-indexes). We control for the following state-level variables: GDP per capita, population density, unemployment rate, the maximum prison sentence for hit-and-run crashes and the extent of insurance coverage.¹⁴ According to Table 3, the social capital endowment at the state level is always negatively correlated with the percentage of hit-and-run, the result being statistically significant for most social capital measures employed. The value of the coefficient in column (1), for instance, implies that one SD increase in the social capital index is associated with a 1.55 percentage point decrease in the share of hit-and-run accidents. Considering that, in the US, the average share of hit-and-run when using the 51 states as a unit of observation is around 17%, the magnitude is economically significant. To better explore the relationship between hit-and-run accidents and social capital, we move to an econometric analysis at the micro-level.

[Table 3]

3.2 Econometric Model

The key hypothesis we want to test is whether and to what extent the social capital endowment, measured at the *county* level, affects the likelihood of fleeing after a fatal accident involving a pedestrian during the period 2000–2018. To this aim, we estimate the following logit model:

$$F(\beta_0 + \beta_1 SOCCAP_c + \phi X_i + \phi Z_c + \sum_{h=1}^{23} \gamma_h HOUR_h + \sum_{d=1}^{6} \gamma_d DAY_d + \sum_{m=1}^{11} \omega_m MONTH_m + \sum_{t=2000}^{2017} \sum_{s=1}^{50} \alpha_{ts} YEAR_t * STATE_s)$$
(1)

 $Prob(HITRUN_i = 1|X) =$

¹⁴ Descriptive statistics of the variables used in this estimation are reported in Table A2, while Table A3 shows the correlation matrix.

The dependent variable is a dummy equal to 1 if the accident *i* is a hit-and-run: that is, if the driver flees from the crash scene. The key regressor of the analysis is the overall social capital index (SOC-CAP), or its sub-indexes, in the county *c* where the accident takes place. The vector X of control variables includes dummies capturing the characteristics of the place where the accident occurs (local street or urban area), lighting (DAILYLIGHT) and weather (CLEAR_WEATHER) conditions, public holidays (HOLIDAY), two-lane roads (TWOWAY) and a speed limit over 50 mph (HIGH-SPLIM). Besides, we add a vector of control variables Z accounting for socio-economic features at the county level: unemployment rate (UNRATE), real GDP per capita (RGDPPC), hospital density (HOSPITAL), share of Catholics (SHARE_CATH), share of black people (SHARE_BLACK), dummy variables equal to 1 if the county is dry (DRY) and if the county borders Mexico (MEX_BOR-DER). Lastly, we add dummy variables to control for time and space fixed effects (hour of the day, day of the week, month of the year, and the interaction between year and state). Besides capturing any level differences across states, including year-state fixed effects allows for differential dynamics across states in the likelihood of fleeing. This controls for any change that may occur at the state level in the period under consideration: for example, legislative changes in penalties.

As a robustness check, we further add to the specification some characteristics of accident victims such as sex, age (and its square) and race, information that is available only for a subset of accidents (around 90,000 out of around 109,000). This may be relevant if the probability of fleeing depends on the characteristics of the victim. For instance, according to Solnick and Hemenway (1995), the probability of fleeing is lower when the victims are young or older than 65 years old.

3.3 Results

Table 4a reports the results of the baseline regression. Column 1 includes the overall social capital index (SOCCAP) while, in Columns 2 to 5, we replace the main indicator with the four sub-indexes (COLL_EFF, FAMILY_UNITY, COMM_HEALTH and INST_HEALTH). The level of social capital has a negative and robust association with the probability of fleeing; COMM_HEALTH being

the only exception with a negative but insignificant coefficient. Looking at Column 1, one standard deviation increase in SOCCAP is associated with a reduction in the probability of hit-and-run of around 10.5% (that is, a decrease of 0.019 percentage points over a baseline of 0.185).¹⁵

[Table 4a]

As a robustness check, in Table 4b we add variables related to the victims of the accident. The number of observations drops, but coefficients are still significant and even larger in absolute terms. However, this derives from the different sample size rather than from the inclusion of new variables.¹⁶ Indeed, in Table A6 in the Appendix we use the sample of Table 4b, excluding the variables related to the victims, and we find results very similar to Table 4b in terms of magnitude of the marginal effect.¹⁷ Therefore, our results are robust to the inclusion of these additional variables.

[Table 4b]

4. CAUSALITY AND CHANNELS

4.1 Falsification tests

¹⁵ In Table A4 in the Appendix, we also report the coefficients for the control variables. These are in line with the literature: hit-and-run appears more likely to occur in local streets and urban areas, during holidays, and on two-way roads. By contrast, there is a lower likelihood to flee after the crash during good weather conditions and in daylight. Concerning county-level features, the unemployment rate, GDP per capita, the share of Catholics and the share of blacks positively affect the probability of running away. When we instead exclude from the specification all the control variables included in Table 4a (with the exception of the time of day, days of the week, month, and year*state dummies) the value of the coefficient related to SOCCAP is -0.038 (s.e. 0.002).

¹⁶ Table A5 in the Appendix also reports the control variables. Concerning victims' features, sex does not appear to influence the choice to leave the scene of the crash; age has a non-linear effect in that it is positive until the age of 46 and negative afterwards, while hitting a white pedestrian reduces the likelihood of fleeing.

¹⁷ The variable that reduces the sample size is WHITE_PED. Excluding this variable from the specification, the sample size remains almost the same, as do the marginal effects.

As mentioned in the introduction, the negative correlation between social capital and hit-and-run does not necessarily imply a causal link. Even if we have exploited variation within state-year, allowing also for differential dynamics of hit-and-run across states, there might still be some omitted variables at the county level affecting both social capital and hit-and-run. For instance, some urban features (such as the design of neighbourhoods, e.g., high vs. low density) may have an impact on social capital by favouring social interaction (Leyden, 2003) as well as on hit-and-run by making it more difficult to flee. If this were the case, we would expect the negative relationship between social capital and the likelihood of fleeing to be the same, irrespective of whether the driver is local or not. If, instead, the relationship we observe at the county level is causal, then we would expect to see a stronger relationship for local drivers than for non-locals. When local drivers have an accident in their own neighbourhood, they are aware of the level of social capital that affects the degree of social control and the probability of being punished. On the contrary, this information might be unknown to non-local drivers.

We perform this test by distinguishing between local and non-local drivers using two different strategies, with a trade-off between quantity and quality of information. The first strategy favours the former and the second one the latter. With the first strategy, we exploit the fact that drivers on local streets are more likely to be local. The advantage here is that the information about the street is available for all accidents, but the disadvantage is that we do not know if a specific driver was a resident in the same county.¹⁸

¹⁸ Indeed, if we consider accidents for which we have information on drivers' ZIP code, 19% of those occurring on local streets involve drivers from another county, while on highways and interstates this figure is 38% (a difference that is statistically significant). Note that we have information for the ZIP code of the driver in almost 89% of observations. Even assuming an extreme case in which all non-identified drivers on local streets are out-of-county drivers, and all non-identified drivers on non-local streets are resident drivers, it is still the case that the likelihood of an out-of-county driver is lower on local streets (28% vs 35%).

A second strategy is based on the ZIP code of the driver. This has the advantage of clearly distinguishing between local and non-local drivers for each accident, but the disadvantage is that we lack this information for around half of hit-and-run accidents, where the driver is not identified. This second approach is potentially affected by selection bias, since drivers from other counties may be more or less likely to be identified. Note, however, that the share of identified drivers is nearly identical on local (47.88%) and non-local (47.96%) streets (see middle panel of Table 2), suggesting that this may not be a major issue.

To implement the first strategy, in Table 5 we estimate Equation (1) splitting the sample into accidents occurring on local streets (Columns 1 to 5), interstates and state highways (Columns 6 to 10). Results show that the marginal effect of social capital is higher on local streets than on other roads. Focusing on Columns 1 and 6, one standard deviation increase in social capital reduces the likelihood of hit-and-run by 13% on local streets and 5.6% on non-local streets (considering that 21% of drivers flee from local roads compared to the around 16% from other streets), the difference between the two coefficients being statistically significant (p-value = 0.000). This result is confirmed by using COLL_EFF and FAMILY_UNITY sub-indexes. On the contrary, COMM_HEALTH is never significant, while INST_HEALTH shows a negative and significant coefficient only in the *other street* sub-sample, but is not significantly different from the corresponding coefficient in the local street sub-sample (Column 5).

[Table 5]

To implement the second strategy, in Table 6 we estimate Equation (1) by splitting the sample into accidents where the identified driver resides in the county (Columns 1-5) and accidents where the driver is from outside of the county (Columns 6-10). The effect of social capital is negative and statistically significant only in the subsample involving *resident* drivers. The community health sub-index represents an exception, being positive, but only weakly significant, in the *resident* sub-sample.

The results from these two different strategies suggest that the effect of social capital on hit-andrun is indeed stronger for local drivers.

[Table 6]

To delve deeper into this issue, in Table 7a we restrict the analysis to out-of-county drivers and use the social capital of the county of residence instead of that of the accident. One may worry that drivers are mostly from similar counties in terms of social capital (e.g., because of spatial proximity). When we consider this subsample, however, the scatterplot between the social capital in the county of the accident vs. county of residence (Figure A11 in the Appendix) shows only a weakly positive correlation (r = 0.27), implying that there is enough variation to disentangle the impact of the two.¹⁹ Table 7a confirms the negative relationship between social capital and the likelihood of fleeing.

[Table 7a]

Finally, in Table 7b, we use both measures and see how the likelihood of fleeing has a stronger relationship, both in terms of statistical significance and in terms of the magnitude of the coefficient, with the social capital characterizing the county of origin rather than the county of the accident. This evidence supports the hypothesis that people respond more strongly to the social capital endowment of the context where they live than to the social capital of the county where the accident took place.

[Table 7b]

Overall, the evidence presented in this section suggests that omitted variables at the county level are not behind the correlation, thus supporting a causal interpretation of the link between social capital and the likelihood of fleeing after an accident.

4.2 Instrumental Variable Approach

¹⁹ See Figures A12-A15 in the Appendix for the same with the sub-indexes of social capital.

To give further support to our previous finding, we adopt an instrumentation strategy based on the Lewbel (2012) approach. Specifically, when it is difficult or impossible to find valid (external) instruments, this approach enables the identification of structural parameters in regression models with endogenous variables by exploiting the heteroscedasticity of the error term. Stated differently, the Lewbel approach allows the construction of instruments based on information about the heteroscedasticity of the error term. The greater the degree of heteroscedasticity in the structural equation error process, the higher will be the correlation between the generated instruments and the endogenous variables.²⁰ This approach has also been applied in cases, as in this paper, where the dependent variable is dichotomous, e.g., in the implementation of Umberger et al. (2015) and Banerjee et al. (2017). To justify the use of this methodology, we first test the assumption of heteroscedasticity in the error term; the Breusch-Pagan/Cook-Weisberg χ^2 is sufficiently large to reject the null hypothesis of homoscedasticity. Also, the Hansen J statistic, used to test the validity of the overidentifying restriction, supports the validity of our instrumentation strategy by failing to reject the null hypothesis that all instruments are valid. The estimates reported in Table 8 confirm our main results. Moreover, it is important to note that the endogeneity test reported at the bottom of Table 8 is never statistically significant (except in Column 5 at a 10% level), so that the null hypothesis of exogeneity of the instrumented variables cannot be rejected, supporting the appropriateness of the previous analysis.²¹

[TABLE 8]

4.3 Potential channels

As mentioned in the introduction, a possible channel behind the relationship between social capital and the probability of fleeing, related to extrinsic motivation, is that higher social capital at the local

²⁰ See Lewbel (2012) for a detailed explanation of this approach.

²¹ Due to computational issues, we include in the specification state and year fixed effects rather than their interaction.

level could induce a higher probability of identification, for instance because witnesses are more likely to come forward. In order to investigate this aspect, we restrict the analysis to the subsample of hit-and-run accidents and estimate the probability of being identified after fleeing; therefore, the dependent variable is a dummy equal to 1 if the driver has been identified by the authorities, 0 otherwise. This allows us to ascertain whether, in counties characterized by higher social capital, there is indeed a higher probability of being identified after fleeing.

Results in Table 9 show that in counties with higher social capital, the probability of identification is higher; one SD increase in social capital corresponds to approximately a 3 percentage-point increase in the probability of identification, which is sizeable if one considers that around half of the people who fled after the accident were identified. This finding implies that social capital might increase the productivity and efficiency of the authorities and, as a consequence, increase the probability of punishment.

If one considers that local drivers are more likely to be aware of this, then we would expect this effect to be stronger on local streets. Paralleling the analysis conducted above, in Table 10 we split the sample into local vs. non-local streets, confirming that indeed the impact is stronger in the case of local streets.²²

[Tables 9 and 10]

Concerning intrinsic motivations, one should recall that the evidence presented in Table 7b shows that what matters is social capital in the county of residence rather than in the county where the accident took place. Thus, drivers appear to "bring with them" their social capital endowment, suggesting that an internalized sense of duty may indeed also play a role in explaining the impact of social capital on the likelihood of fleeing.

²² For obvious reasons, we cannot consider, as done in the second strategy of Section 4.1, only identified drivers when looking at the likelihood of being identified.

6. CONCLUDING REMARKS

In this study we document a negative relationship between social capital endowment and pedestrian hit-and-run road accidents. Our results are robust to different specifications and falsification tests; factoring whether the accident occurs in local areas, or using information about the driver's residence, we offer some evidence supporting a causal interpretation of the correlation between the two variables of interest.

In communities with high social capital, better formal and informal social control reduces anonymity, strengthens social norms, and improves the enforcement of the law. Furthermore, committing a crime in such contexts implies higher expected social sanctions. Finally, social capital might reduce hit-and-run by promoting social norms of reciprocity, a sense of duty, pro-social behaviour, and cooperation.

The literature has shown the importance of social capital for a variety of outcomes. What we show is that social capital matters also for a decision taken under great emotional distress and time pressure, thus pointing to a role of social capital in guiding instinctive behaviour – or "System 1" according to the classification by Kahneman (2011). Interventions targeted to promote civic norms and pro-social behaviour could thus have a beneficial impact across a wide range of domains.

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| VARIABLE | DESCRIPTION | Mean | StdD | Min | Max | Obs |
|--------------|---|-------|-------|-------|---------|---------|
| HITRUN | Dummy = 1 if the driver run after the accident | 0.18 | 0.39 | 0 | 1 | 118,688 |
| IDENTIFIED | Dummy = 1 if the driver is identified after leaving the scene of the accident | 0.48 | 0.50 | 0 | 1 | 20,912 |
| SOCCAP | Social Capital Index | 0 | 1 | -3.79 | 3.86 | 118,408 |
| COLL_EFF | Collective Efficacy Sub-Index (see table A4) | 0 | 1 | -5.92 | 1.74 | 118,240 |
| FAMILY_UNITY | Family Unity Sub-Index (see table A4) | 0 | 1 | -5.59 | 3.51 | 118,490 |
| COMM_HEALTH | Community Health Sub-Index (see table A4) | 0 | 1 | -1.49 | 12.82 | 118,688 |
| INST_HEALTH | Institutional Health Sub-Index (see table A4) | 0 | 1 | -4.29 | 3.51 | 118,606 |
| LOCALSTREET | Dummy = 1 if the accident occurs in local streets (see table notes) | 0.46 | 0.50 | 0 | 1 | 116,772 |
| URBAN | Dummy = 1 if the accident occurs in urban area (see table notes) | 0.59 | 0.49 | 0 | 1 | 118,688 |
| DAYLYLIGHT | Dummy = 1 for accident occurred in daily light conditions | 0.29 | 0.45 | 0 | 1 | 118,688 |
| CLEARWEATHER | Dummy = 1 for accident occurred during good weather condition | 0.81 | 0.39 | 0 | 1 | 118,688 |
| HIGHSPLIM | Dummy = 1 for speed limit higher than 50 miles | 0.33 | 0.47 | 0 | 1 | 118,688 |
| HOLIDAY | Dummy = 1 for accident occurred during holidays | 0.030 | 0.160 | 0 | 1 | 118,688 |
| TWOWAY | Dummy = 1 for accident occurred on a twoway road type | 0.49 | 0.50 | 0 | 1 | 117,132 |
| UNRATE | County unemployment rate | 6.18 | 2.52 | 1.20 | 28.90 | 118,614 |
| SHARE_CATH | Share of Catholics - County level | 0.20 | 0.14 | 0.00 | 0.94 | 117,534 |
| HOSPITAL | Hospital Density: number of hospital in the county over county surface (sq.miles) | 0.03 | 0.08 | 0.00 | 0.83 | 115,176 |
| RGDPPC | County real gross domestic product per capita (in thousand of dollars) | 54.69 | 36.31 | 5.92 | 1551.00 | 116,925 |
| SHARE_BLACK | Share of black people - County level | 0.154 | 0.144 | 0 | 1 | 118,688 |
| DRY | Dummy = 1if the county is dry | 0.01 | 0.08 | 0 | 1 | 118,688 |
| MEX_BORDER | Dummy = 1 if the county borders with Mexico | 0.03 | 0.17 | 0 | 1 | 118,500 |
| MALE_PED | Dummy = 1 if the victim is male | 0.723 | 0.447 | 0 | 1 | 118,515 |
| AGE_PED | Age of the victim | 45.01 | 21.03 | 0 | 104 | 118,106 |
| WHITE_PED | Dummy = 1 if the victim is white | 0.73 | 0.44 | 0 | 1 | 97,943 |

TABLE 1 - Description and summary statistics of the variables used in the estimations

Notes: the social capital measures (SOCCAP, COLL_EFF, FAMILY_UNITY, COMM_HEALTH, INST_HEALTH) are defined at county level. See Table A4 for a detailed description. As a LOCALSTREET we consider: township, municipality, frontage road and county road. Urban areas are defined according to FHWA-approved adjusted Census boundaries of small urban and urbanized areas.

| TABLE 2 - Descriptive | Statistics of ac | ccidents involving | pedestrians. |
|-----------------------|------------------|--------------------|--------------|
|-----------------------|------------------|--------------------|--------------|

| | Total accidents | hit-and-run | % hit-and-run |
|------------------------|--|----------------------|---------------------|
| | 118,688 | 21,932 | 18.48 |
| Region | | | |
| Northeast | 17,777 | 2,853 | 16.05 |
| Vidwest | 17,199 | 3,318 | 19.29 |
| South | 52,455 | 9,543 | 18.19 |
| West | 31,257 | 6,218 | 19.89 |
| Time of day | | | |
| Vidnight–3:59 am | 16,522 | 5,766 | 34.90 |
| 4:00–7:59 am | 15,435 | 2,860 | 18.53 |
| 3:00–11:59 am | 9,739 | 770 | 7.91 |
| Noon–3:59 pm | 11,896 | 888 | 7.46 |
| 4:00–7:59 pm | 28,635 | 3,686 | 12.87 |
| 8:00–11:59 pm | 35,840 | 7,567 | 21.11 |
| Period of week | | | |
| Weekday | 70,698 | 10,877 | 15.39 |
| Neekend | 47,990 | 11,055 | 23.04 |
| Season | | | |
| Winter | 30,785 | 5,427 | 17.63 |
| Spring | 26,151 | 4,829 | 18.47 |
| Summer | 27,414 | 5,534 | 20.19 |
| Autumn | 34,338 | 6,142 | 17.89 |
| Light condition | | | |
| Daylight | 34,577 | 3,040 | 8.79 |
| No Daylight | 84,111 | 18,892 | 22.46 |
| Weather Condition | | | |
| Clear Weather | 95,847 | 17,608 | 18.37 |
| No Clear Weather | 22,841 | 4,324 | 18.93 |
| Population Density | | | |
| Rural | 48,069 | 8,287 | 17.24 |
| Urban | 70,619 | 13,645 | 19.32 |
| Type of street | | | |
| Highway - Interstate | 62,637 | 9,920 | 15.84 |
| Local street | 54,135 | 11,595 | 21.42 |
| Speed limit (mph) | | | |
| <55 mph | 79,724 | 15,236 | 19.11 |
| >= 55 mph | 38,964 | 6,696 | 17.19 |
| Driver's Residence | | | |
| County of the crash | 75,251 | 7,747 | 10.29 |
| No-County of the crash | 30,837 | 2,391 | 7.75 |
| | Tetel 1 1 1 | Data at the state of | 0/ -6 11 |
| | Total hit-and-run | Driver identified | % of identification |
| - | 20,912 | 10,006 | 47.85 |
| Type of street | 0.515 | 4 500 | 47.00 |
| Highway - Interstate | 9,515 | 4,563 | 47.96 |
| Local street | 11,000 | 5,267 | 47.88 |
| | Total Accidents with driver identified | Resident Driver | % of Resident Drive |
| | 106,088 | 75,251 | 70.93 |
| Type of street | , - | | |
| Highway - Interstate | 56,841 | 35,468 | 62.40 |
| Local street | 47,605 | 38,388 | 80.64 |

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| SOCCAP | -0.0155*** <i>(0.005)</i> | | | | | | | |
| FAMILY_UNITY | (0.000) | -0.0091 <i>(0.006)</i> | | | | | | |
| FAM_INTERACTION | | (0.006) | -0.0106 (0.007) | | | | | |
| SOCIALSUPPORT | | | (0.007) | -0.0131*** <i>(0.005)</i> | | | | |
| COMM_HEALTH | | | | (0.000) | -0.0126 <i>(0.008)</i> | | | |
| INST_HEALTH | | | | | (0.000) | -0.0097** <i>(0.005)</i> | | |
| COLL_EFF | | | | | | (0.000) | -0.0195*** <i>(0.007)</i> | |
| PHILANTROPHIC_HEALTH | | | | | | | (0.007) | -0.0116** <i>(0.005)</i> |
| LRGDPPC | 0.0761** <i>(0.031)</i> | 0.0764*** <i>(0.0</i> 29) | 0.0729** (0.032) | 0.0545* <i>(0.029)</i> | 0.0710** <i>(0.0</i> 33) | 0.0721** <i>(0.031)</i> | 0.0526* (0.03) | 0.0808** |
| DENSITY | -0.0047 (0.004) | -0.0079* (0.004) | -0.0029 (0.004) | -0.0026 (0.004) | 0.0033) 0.0018 (0.004) | -0.0032 (0.004) | -0.0108* <i>(0.006)</i> | -0.0044 (0.005) |
| UNRATE | 0.0054 | 0.0100* | (0.004) 0.0094** (0.004) | 0.0068 | 0.0091** | 0.0095* | 0.0075 | 0.0098** |
| PRISON_SENTENCE | (0.005) 0.001 | (0.005) 0.0008 | 0.0011 | (0.005) 0.0008 | (0.004) 0.0009 | (0.005) 0.0013* | (0.005) 0.0007 | (0.005) 0.001 |
| INSURANCE_COV | (0.001) -0.0023 (0.652) | (0.001) -0.0029 (0.584) | (0.001) -0.0029 (0.569) | (0.001) -0.0019 (0.735) | (0.001) -0.0037 (0.475) | (0.001) -0.0028 (0.618) | (0.001) -0.0027 (0.603) | (0.001) -0.0033 (0.528) |
| Observations | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 |
| R2 | 0.004 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |

TABLE 3 - Estimation Results: US Macroanalysis (Fractional Logit model)

Notes: for the description of variables see Table A2. The dependent variable is always PERC_HITRUN. Results are expressed as marginal effects on the percentage of Hit-and-Run. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the state level.

| | 1 | 2 | 3 | 4 | 5 |
|--------------|------------------------------|------------------------------|------------------------------|---------------------------|------------------------------|
| SOCCAP | -0.0189*** <i>(0.003)</i> | | | | |
| COLL_EFF | | -0.0142*** <i>(0.003)</i> | | | |
| FAMILY_UNITY | | | -0.0117*** <i>(0.003)</i> | | |
| COMM_HEALTH | | | | -0.0014 <i>(0.003)</i> | |
| INST_HEALTH | | | | (| -0.0104*** <i>(0.004)</i> |
| Observations | 108,535 | 108,303 | 108,573 | 108,664 | 108,626 |
| R2 | 0.096 | 0.096 | 0.096 | 0.096 | 0.096 |
| Controls | Yes | Yes | Yes | Yes | Yes |

TABLE 4a - Estimation results: US Microanalysis (Logit model)

Notes: for the description of variables see Table 1. The dependent variable is always HITRUN. Results are expressed as marginal effects on the probability to flee after the accident. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the county level. In all models, we control for LOCALSTREET, URBAN, DAYLYLIGHT, CLEARWEATHER, HIGHSPLIM, HOLIDAY, TWOWAY, UNRATE, SHARE_CATH, HOSPITAL, RGDPPC, SHARE_BLACK, DRY, MEX_BORDER (The variables description is reported in Table 1. See Table A4 in Appendix for coefficients and significance level of the control variables). Hour, days of the week, month, and year*state dummies always included but not reported.

| | 1 | 2 | 3 | 4 | 5 |
|------------------------|------------------------------|------------------------------|------------------------------|--------------------------|------------------------------|
| SOCCAP | -0.0206*** <i>(0.004)</i> | | | | |
| COLL_EFF | | -0.0153*** <i>(0.003)</i> | | | |
| FAMILY_UNITY | | | -0.0124*** <i>(0.003)</i> | | |
| COMM_HEALTH | | | | -0.001 <i>(0.004)</i> | |
| INST_HEALTH | | | | () | -0.0127*** <i>(0.004)</i> |
| Observations | 89,515 | 89,306 | 89,550 | 89,635 | 89,600 |
| R2 | 0.100 | 0.100 | 0.100 | 0.099 | 0.100 |
| Controls | Yes | Yes | Yes | Yes | Yes |
| Victim characteristics | Yes | Yes | Yes | Yes | Yes |

TABLE 4b - Estimation results: US Microanalysis (Logit model)

Notes: for the description of variables see Table 1. The dependent variable is always HITRUN. Results are expressed as marginal effects on the probability to flee after the accident. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the county level. In all models, we control for LOCALSTREET, URBAN, DAYLYLIGHT, CLEARWEATHER, HIGHSPLIM, HOLIDAY, TWOWAY, UNRATE, SHARE_CATH, HOSPITAL, RGDPPC, SHARE_BLACK, DRY, MEX_BORDER, MALEPED. AGEPED (and its square), WHITEPED (The variables description is reported in Table 1. See Table A5 in Appendix for coefficients and significance level of the control variables). Hour, days of the week, month, and year*state dummies always included but not reported.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------|-----------------------|-----------------------|-----------------------|-------------------|--------------------|----------------------|--------------------|--------------------|--------------------|----------------------|
| | | Lc | ocal Street | | | | N | on-local Stre | et | |
| SOCCAP | -0.0272*** (0.004) | | | | | -0.0090** (0.004) | | | | |
| COLL_EFF | | -0.0235*** (0.003) | | | | | -0.0042 (0.004) | | | |
| FAMILY_UNITY | | | -0.0184*** (0.004) | | | | | -0.0051 (0.004) | | |
| COMM_HEALTH | | | | 0.0062 (0.005) | | | | | -0.0044 (0.005) | |
| INST_HEALTH | | | | | -0.0034 (0.006) | | | | | -0.0102** (0.004) |
| Observations | 50,362 | 50,319 | 50,379 | 50,393 | 50,376 | 57,147 | 56,980 | 57,163 | 57,236 | 57,220 |
| R2 | 0.116 | 0.116 | 0.116 | 0.115 | 0.115 | 0.084 | 0.084 | 0.084 | 0.084 | 0.084 |
| Controls | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

TABLE 5 - Falsification test: Local street vs Non-local street (Logit model)

Notes: for the description of variables see Table 1. The dependent variable is always HITRUN. Results are expressed as marginal effects on the probability to flee after the accident. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the county level. In all models, we control for LOCALSTREET, URBAN, DAYLYLIGHT, CLEARWEATHER, HIGHSPLIM, HOLIDAY, TWOWAY, UNRATE, SHARE_CATH, HOSPITAL, RGDPPC, SHARE_BLACK, DRY, MEX_BORDER (The variables description is reported in Table 1). Hour, days of the week, month, and year*state dummies always included but not reported.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------|-----------------------|-----------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | Resident | | | | (| Out-of-count | ty | |
| SOCCAP | -0.0105*** (0.003) | | | | | -0.0024 (0.004) | | | | |
| COLL_EFF | | -0.0097*** (0.002) | | | | | -0.0019 (0.003) | | | |
| FAMILY_UNITY | | | -0.0087*** (0.003) | | | | | -0.0009 (0.003) | | |
| COMM_HEALTH | | | | 0.0049* (0.003) | | | | | -0.0015 (0.003) | |
| INST_HEALTH | | | | | -0.0009 (0.004) | | | | | -0.0001 (0.004) |
| Observations | 68,328 | 68,287 | 68,352 | 68,396 | 68,372 | 25,068 | 25,004 | 25,073 | 25,102 | 25,097 |
| R2 | 0.076 | 0.076 | 0.076 | 0.075 | 0.075 | 0.099 | 0.100 | 0.099 | 0.099 | 0.099 |
| Controls | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Notes: for the description of variables see Table 1. The dependent variable is always HITRUN. Results are expressed as marginal effects on the probability to flee after the accident. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the county level. In all models, we control for LOCALSTREET, URBAN, DAYLYLIGHT, CLEARWEATHER, HIGHSPLIM, HOLIDAY, TWOWAY, UNRATE, SHARE_CATH, HOSPITAL, RGDPPC, SHARE_BLACK, DRY, MEX_BORDER (The variables description is reported in Table 1). Hour, days of the week, month, and year*state dummies always included but not reported.

| | 1 | 2 | 3 | 4 | 5 |
|-----------------|---------------------------------------|------------------------------|------------------------------|-------------------|---------------------------|
| SOCCAP_DR | -0.0063*** (0.002) | | | | |
| COLL_EFF_DR | , , , , , , , , , , , , , , , , , , , | -0.0055*** <i>(0.002)</i> | | | |
| FAMILY_UNITY_DR | | | -0.0053*** <i>(0.002)</i> | | |
| COMM_HEALTH_DR | | | | -0.002 (0.002) | |
| INST_HEALTH_DR | | | | | -0.0023 <i>(0.003)</i> |
| Observations | 24,417 | 24,308 | 24,429 | 24,507 | 24,495 |
| R2 | 0.100 | 0.099 | 0.100 | 0.099 | 0.099 |
| Controls | Yes | Yes | Yes | Yes | Yes |
| Driver Sample | out-of-county | out-of-county | out-of-county | out-of-county | out-of-county |

TABLE 7a - Estimation results using driver's county social capital (Logit model)

Notes: for the description of variables see Table 1. The dependent variable is always HITRUN. Results are expressed as marginal effects on the probability to flee after the accident. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the county level. In all models, we control for LOCALSTREET, URBAN, DAYLYLIGHT, CLEARWEATHER, HIGHSPLIM, HOLIDAY, TWOWAY, UNRATE, SHARE_CATH, HOSPITAL, RGDPPC, SHARE_BLACK, DRY, MEX_BORDER (The variables description is reported in Table 1). Hour, days of the week, month, and year*state dummies always included but not reported.

| | 1 | 2 | 3 | 4 | 5 |
|--|-----------------------|---------------------------|----------------------------|----------------------------|--------------------------|
| SOCCAP | -0.0034 (0.004) | | | | |
| SOCCAP_DR | -0.0065*** (0.002) | | | | |
| COLL_EFF | (0.002) | -0.0033 <i>(0.003)</i> | | | |
| COLL_EFF_DR | | -0.0057*** (0.002) | | | |
| FAMILY_UNITY | | (0.002) | -0.0012 <i>(0.003</i>) | | |
| FAMILY_UNITY_DR | | | -0.0054*** (0.002) | | |
| COMM_HEALTH | | | (0.002) | -0.0012 <i>(0.00</i> 3) | |
| COMM_HEALTH_DR | | | | -0.002 (0.002) | |
| INST_HEALTH | | | | (0.002) | 0.0006 <i>(0.004)</i> |
| INST_HEALTH_DR | | | | | -0.0023 (0.003) |
| Observations | 24,386 | 24,236 | 24,403 | 24,507 | 24,490 |
| R2 | 0.100 | 0.100 | 0.100 | 0.099 | 0.098 |
| Equality test (county vs driver social capital) | 0.62 | 0.55 | 1.31 | 0.04 | 0.37 |
| P-Value Chi2 | 0.4311 | 0.4587 | 0.2521 | 0.8418 | 0.5413 |
| Controls | Yes | Yes | Yes | Yes | Yes |
| Driver Sample | out-of- county | out-of- county | out-of- county | out-of- county | out-of- county |

TABLE 7b - Estimation results using driver's and accident's county social capital (Logit model)

Notes: for the description of variables see Table 1. The dependent variable is always HITRUN. Results are expressed as marginal effects on the probability to flee after the accident. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the county level. In all models, we control for LOCALSTREET, URBAN, DAYLYLIGHT, CLEARWEATHER, HIGHSPLIM, HOLIDAY, TWOWAY, UNRATE, SHARE_CATH, HOSPITAL, RGDPPC, SHARE_BLACK, DRY, MEX_BORDER (The variables description is reported in Table 1). Hour, days of the week, month, and year*state dummies always included but not reported.

| | 1 | 2 | 3 | 4 | 5 |
|---------------------------|-----------------------|------------------------------|------------------------------|-------------------|----------------------------|
| SOCCAP | -0.0205*** (0.004) | | | | |
| COLL_EFF | | -0.0156*** <i>(0.004)</i> | | | |
| FAMILY_UNITY | | | -0.0130*** <i>(0.004)</i> | | |
| COMM_HEALTH | | | () | 0.0003 (0.004) | |
| INST_HEALTH | | | | () | -0.0080* <i>(0.005)</i> |
| Observations | 109,273 | 109,124 | 109,312 | 109,404 | 109,365 |
| R2 | 0.075 | 0.075 | 0.075 | 0.075 | 0.075 |
| Hansen J statistic - chi2 | 131.891 | 137.081 | 132.983 | 130.140 | 123.287 |
| P-Value | 0.2349 | 0.1507 | 0.2151 | 0.2690 | 0.4251 |
| Endogeneity test - chi2 | 0.062 | 0.029 | 0.382 | 0.038 | 3.004 |
| P-Value | 0.8030 | 0.8649 | 0.5366 | 0.8456 | 0.0831 |
| Controls | Yes | Yes | Yes | Yes | Yes |

TABLE 8 - Estimation results: US Microanalysis (IV Lewbel)

Notes: for the description of variables see Table 1. The dependent variable is always HITRUN. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the county level. In all models, we control for LOCALSTREET, URBAN, DAYLYLIGHT, CLEAR-WEATHER, HIGHSPLIM, HOLIDAY, TWOWAY, UNRATE, SHARE_CATH, HOSPITAL, RGDPPC, SHARE_BLACK, DRY, MEX_BORDER (The variables description is reported in Table 1). Hour, days of the week, month, year and state dummies always included but not reported.

| | 1 | 2 | 3 | 4 | 5 |
|--------------|-----------|---------|---------|----------|-----------|
| SOCCAP | 0.0279*** | | | | |
| | (0.01) | | | | |
| COLL_EFF | | 0.0119 | | | |
| | | (0.008) | | | |
| FAMILY_UNITY | | | 0.0094 | | |
| | | | (0.009) | | |
| COMM_HEALTH | | | | 0.0233** | |
| | | | | (0.011) | |
| INST_HEALTH | | | | | 0.0414*** |
| | | | | | (0.012) |
| Observations | 18,781 | 18,773 | 18,786 | 18,794 | 18,789 |
| R2 | 0.086 | 0.085 | 0.085 | 0.086 | 0.086 |
| Controls | Yes | Yes | Yes | Yes | Yes |
| | | | | | |

TABLE 9 - Estimation results - Dependent variable: Probability of being identified (Logit model)

Notes: for the description of variables see Table 1. The dependent variable is always IDENTIFIED. Results are expressed as marginal effects on the probability of being identified. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the county level. In all models, we control for LOCALSTREET, URBAN, DAYLYLIGHT, CLEARWEATHER, HIGHSPLIM, HOLIDAY, TWOWAY, UNRATE, SHARE_CATH, HOSPITAL, RGDPPC, SHARE_BLACK, DRY, MEX_BORDER (The variables description is reported in Table 1). Hour, days of the week, month, and year*state dummies always included but not reported.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------|---------------------|--------------------|-------------------|---------------------|----------------------|-------------------|------------------|-------------------|-------------------|---------------------|
| | | | Local Stree | et | | Non-local Street | | | | |
| SOCCAP | 0.0360** (0.014) | | | | | 0.0181 (0.013) | | | | |
| COLL_EFF | | 0.0183* (0.011) | | | | | 0.0091 (0.01) | | | |
| FAMILY_UNITY | | | 0.0074 (0.012) | | | | | 0.0037 (0.011) | | |
| COMM_HEALTH | | | | 0.0349** (0.014) | | | | | 0.0078 (0.014) | |
| INST_HEALTH | | | | | 0.0455*** (0.017) | | | | | 0.0331** (0.015) |
| Observations | 9,918 | 9,914 | 9,920 | 9,921 | 9,919 | 8,396 | 8,392 | 8,398 | 8,404 | 8,402 |
| R2 | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | 0.092 | 0.092 | 0.091 | 0.091 | 0.092 |
| Controls | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

TABLE 10 - Falsification test - Dependent variable: Probability of being identified. Local street vs Non-local street (Logit model)

Notes: for the description of variables see Table 1. The dependent variable is always IDENTIFIED. Results are expressed as marginal effects on the probability of being identified. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the county level. In all models, we control for LOCALSTREET, URBAN, DAYLYLIGHT, CLEAR-WEATHER, HIGHSPLIM, HOLIDAY, TWOWAY, UNRATE, SHARE_CATH, HOSPITAL, RGDPPC, SHARE_BLACK, DRY, MEX_BORDER (The variables description is reported in Table 1). Hour, days of the week, month, and year*state dummies always included but not reported.

TABLE A1 - Correlation matrix: US microanalysis

| | HITRUN | SOCCAP | COLL_EFF | FAMILY_UNITY | COMM_HEALTH | INST_HEALTH | LOCALSTREET | URBAN D | AYLYLIGHT | CLEARWEATHER | HIGHSPLIM | HOLIDAY | TWOWAY | UNRATE | SHARE_CATH | HOSPITAL | RGDPPC | SHARE_BLACK | DRY | MEX_BORDER | MALE_PED | AGE_PED | WHITE_PED |
|--------------|---------|---------|----------|--------------|-------------|-------------|-------------|---------|-----------|--------------|-----------|---------|---------|---------|------------|----------|---------|-------------|---------|------------|----------|---------|-----------|
| HITRUN | 1 | | | | | | | | | | | | | | | | | | | | | | |
| SOCCAP | -0.0873 | 1 | | | | | | | | | | | | | | | | | | | | | |
| COLL_EFF | -0.0855 | 0.8164 | 1 | | | | | | | | | | | | | | | | | | | | |
| FAMILY_UNITY | -0.0549 | 0.7794 | 0.6483 | 1 | | | | | | | | | | | | | | | | | | | |
| COMM_HEALTH | -0.0285 | 0.3347 | -0.0317 | -0.0082 | 1 | | | | | | | | | | | | | | | | | | |
| INST_HEALTH | -0.0443 | 0.5999 | 0.1637 | 0.2256 | 0.3651 | 1 | | | | | | | | | | | | | | | | | |
| LOCALSTREET | 0.0734 | -0.0498 | -0.0664 | 0.0301 | 0.0085 | -0.0761 | 1 | | | | | | | | | | | | | | | | |
| URBAN | 0.0245 | -0.0341 | -0.0698 | 0.0183 | -0.0462 | 0.0214 | 0.0697 | 1 | | | | | | | | | | | | | | | |
| DAYLYLIGHT | -0.1524 | 0.0565 | 0.0217 | 0.0456 | 0.0658 | 0.0396 | 0.1526 | 0.0325 | 1 | | | | | | | | | | | | | | |
| CLEARWEATHER | -0.006 | -0.0761 | -0.0273 | -0.0247 | -0.0947 | -0.0892 | 0.0345 | 0.075 | 0.0862 | 1 | | | | | | | | | | | | | |
| HIGHSPLIM | -0.0214 | 0.0502 | 0.1045 | 0.0307 | 0.0252 | -0.0647 | -0.3737 | -0.147 | -0.0781 | -0.0254 | 1 | | | | | | | | | | | | |
| HOLIDAY | 0.0182 | -0.0045 | -0.0003 | -0.0064 | -0.0081 | -0.0009 | -0.0118 | 0.0051 | -0.0291 | -0.0106 | 0.0229 | 1 | | | | | | | | | | | |
| TWOWAY | 0.0354 | 0.1033 | 0.0817 | 0.0012 | 0.146 | 0.0739 | 0.2925 | -0.0639 | 0.1289 | 0.001 | -0.172 | -0.0078 | 1 | | | | | | | | | | |
| UNRATE | 0.0079 | -0.2107 | -0.1072 | -0.2078 | -0.0743 | -0.1793 | 0.0744 | 0.1365 | -0.0108 | 0.011 | 0.022 | 0.0064 | 0.0403 | 1 | | | | | | | | | |
| SHARE_CATH | 0.0377 | 0.0658 | 0.0973 | 0.1726 | -0.1362 | -0.0475 | 0.1115 | 0.1346 | 0.0552 | 0.0171 | -0.093 | 0.008 | 0.011 | 0.0543 | 1 | | | | | | | | |
| HOSPITAL | 0.0318 | -0.2256 | -0.346 | -0.2022 | 0.1708 | -0.0202 | 0.0951 | 0.0585 | 0.0523 | -0.0157 | -0.0853 | -0.0015 | -0.0177 | -0.0167 | 0.1849 | 1 | | | | | | | |
| RGDPPC | 0.0808 | -0.1927 | -0.27 | 0.0687 | -0.2424 | -0.0479 | 0.2398 | 0.2362 | 0.0271 | 0.0562 | -0.221 | 0.0085 | -0.1805 | -0.0543 | 0.4382 | 0.302 | 1 | | | | | | |
| SHARE_BLACK | 0.0453 | -0.5286 | -0.5767 | -0.6848 | 0.0579 | 0.0297 | -0.0445 | -0.0047 | -0.045 | -0.0031 | -0.0418 | 0.0087 | -0.0163 | 0.0643 | -0.2174 | 0.2388 | 0.0421 | 1 | | | | | |
| DRY | -0.0145 | 0.0241 | 0.0553 | 0.0272 | 0.0054 | -0.0472 | -0.0306 | -0.0321 | 0.0048 | -0.0027 | 0.0303 | -0.0057 | 0.0366 | 0.0024 | -0.088 | -0.0276 | -0.1366 | -0.0344 | 1 | | | | |
| MEX_BORDER | 0.0107 | -0.0322 | 0.0576 | 0.0623 | -0.1149 | -0.1693 | 0.0414 | 0.0291 | -0.0077 | 0.0335 | 0.0101 | 0.0026 | -0.0437 | 0.048 | 0.1541 | -0.0539 | 0.0713 | -0.137 | -0.0121 | I 1 | | | |
| MALE_PED | 0.0213 | -0.0259 | -0.0063 | -0.0189 | -0.0279 | -0.0274 | -0.0566 | -0.0137 | -0.0572 | 0.0073 | 0.0576 | -0.0048 | -0.0399 | 0.0038 | -0.0331 | -0.0319 | -0.0279 | 0.0105 | 0.0006 | 0.0043 | 1 | | |
| AGE_PED | -0.0659 | 0.0162 | 0.0046 | 0.0277 | -0.0133 | 0.02 | 0.0478 | 0.0244 | 0.0987 | -0.0205 | -0.1421 | -0.0226 | 0.0055 | -0.0047 | 0.083 | 0.0426 | 0.0725 | -0.0334 | -0.0143 | 3 0.0111 | -0.0348 | 1 | |
| WHITE_PED | -0.0592 | 0.1786 | 0.1962 | 0.1966 | -0.0343 | 0.0329 | -0.0349 | -0.0005 | 0.05 | 0.0102 | 0.0275 | -0.0024 | 0.0113 | -0.0206 | 0.0455 | -0.1127 | -0.0565 | -0.3009 | 0.0179 | 0.0511 | 0.012 | 0.0573 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | |

Note: for the description of the variables see Table 1.

| VARIABLE | DESCRIPTION | Mean | StdD | Min | Max | Obs |
|----------------------|--|--------|--------|--------|---------|-----|
| PERC_HITRUN | Percentage of fatal pedestrian Hit-and-Run | 16.86 | 3.98 | 7.13 | 24.06 | 51 |
| SOCCAP | Social Capital Index | 0 | 1 | -2.15 | 2.08 | 51 |
| FAMILY_UNITY | Family Unity Sub-Index (see table A5) | 0 | 1 | -3.37 | 2.62 | 51 |
| FAM_INTERACTION | Family Interaction Sub-Index (see table A5) | 0 | 1 | -2.33 | 2.59 | 51 |
| SOCIALSUPPORT | Social Support Sub-Index (see table A5) | 0 | 1 | -2.49 | 2.97 | 51 |
| COMM_HEALTH | Community Health Sub-Index (see table A5) | 0 | 1 | -1.38 | 3.97 | 51 |
| INST_HEALTH | Institutional Health Sub-Index (see table A5) | 0 | 1 | -3.46 | 2.18 | 51 |
| COLL_EFF | Collective Efficacy Sub-Index (see table A5) | 0 | 1 | -4.91 | 1.48 | 51 |
| PHILANTROPHIC_HEALTH | Philantrophic Health Sub-Index (see table A5) | 0 | 1 | -2.23 | 2.21 | 51 |
| LRGDPPC | Real GDP per capita (in thousands of dollars) | 51,817 | 19,419 | 33,101 | 172,371 | 51 |
| DENSITY | Population over surface (sq. Miles) | 387 | 1,405 | 1 | 10,062 | 51 |
| UNRATE | Unemployment rate (in percentage) | 5.62 | 1.05 | 3.20 | 7.32 | 51 |
| INSURANCE_COV | Insurance coverage required (see table note) | 2.45 | 1.01 | 0 | 4 | 51 |
| PRISON_SENTENCE | Maximum prison sentence for fleeing after the accident (in year) | 9.27 | 6.61 | 1.00 | 30.00 | 51 |

TABLE A2- Description and summary statistics: US macroanalysis

Notes: all the variables employed are defined at state level. See Table A5 for a detailed description of the social capital measures. INSURANCE_COV refers to the type of coverage insurance required to carry in each state. It is an ordered variable ranging from 0 to 4. Zero means that in a state there is not vehicle insurance required, while 4 means that in the state are required all the following type of insurance coverage: Bodily Injury, Property Damage Liability, Personal Injury Protection, Uninsured/Underinsured Motorist.

TABLE A3 - Correlation matrix: US Macroanalysis

| | PERC_HITRUN | SOCCAP | FAMILY_UNITY | FAM_INTERACTIO | SOCIALSUPPORT | COMM_HEALTH | INST_HEALTH | COLL_EFF | PHILANTROPHIC_ | LRGDPPC | DENSITY | UNRATE | INSURANCE_COV | PRISON_SENTENCE |
|-----------------|-------------|---------|--------------|----------------|---------------|-------------|-------------|----------|----------------|---------|---------|--------|---------------|-----------------|
| PERC_HITRUN | 1 | | | | | | | | | | | | | |
| SOCCAP | -0.4187 | 1 | | | | | | | | | | | | |
| FAMILY_UNITY | -0.3412 | 0.761 | 1 | | | | | | | | | | | |
| FAM_INTERACTION | -0.2646 | 0.8194 | 0.4521 | 1 | | | | | | | | | | |
| SOCIALSUPPORT | -0.4652 | 0.8943 | 0.6518 | 0.7001 | 1 | | | | | | | | | |
| COMM_HEALTH | -0.1273 | 0.6472 | 0.1693 | 0.7432 | 0.583 | 1 | | | | | | | | |
| INST_HEALTH | -0.2413 | 0.7241 | 0.4587 | 0.4741 | 0.5613 | 0.3708 | 1 | | | | | | | |
| COLL_EFF | -0.5264 | 0.5479 | 0.6655 | 0.3203 | 0.5071 | -0.1102 | 0.3437 | 1 | | | | | | |
| PHILANTROPHIC_H | -0.2631 | 0.8034 | 0.5935 | 0.5459 | 0.619 | 0.5413 | 0.5732 | 0.2621 | 1 | | | | | |
| LRGDPPC | 0.3028 | 0.0024 | -0.3056 | 0.1785 | -0.1437 | 0.5661 | 0.1013 | -0.6367 | 0.1664 | 1 | | | | |
| DENSITY | 0.2735 | -0.1161 | -0.4969 | 0.0898 | -0.1845 | 0.5194 | 0.0207 | -0.6826 | 0.0437 | 0.9049 | 1 | | | |
| UNRATE | 0.362 | -0.5821 | -0.5981 | -0.4067 | -0.5509 | -0.2731 | -0.4012 | -0.4475 | -0.3728 | 0.1176 | 0.2387 | 1 | | |
| INSURANCE_COV | -0.0316 | 0.0623 | 0.0124 | 0.0703 | 0.0953 | 0.0505 | 0.0818 | -0.0532 | 0.038 | 0.1167 | 0.1145 | 0.0468 | 1 | |
| PRISON_SENTENC | E 0.1154 | -0.0149 | -0.1015 | 0.0263 | -0.0831 | -0.113 | 0.1782 | 0.0343 | -0.0041 | -0.2073 | -0.1586 | 0.1168 | -0.0072 | 1 |

Note: for the description of the variables see Table A2.

| | 1 | 2 | 3 | 4 | 5 |
|--------------|------------------------------|------------------------------|------------------------------|---|------------------------------|
| SOCCAP | -0.0189*** <i>(0.003)</i> | | | | |
| COLL_EFF | | -0.0142*** <i>(0.003)</i> | | | |
| FAMILY_UNITY | | | -0.0117*** <i>(0.003)</i> | | |
| COMM_HEALTH | | | | -0.0014 <i>(0.003)</i> | |
| INST_HEALTH | | | | . , | -0.0104*** <i>(0.004)</i> |
| LOCALSTREET | 0.0606*** (0.004) | 0.0609*** <i>(0.004)</i> | 0.0614*** <i>(0.004)</i> | 0.0615*** <i>(0.004)</i> | 0.0612*** |
| URBAN | 0.0095*** (0.003) | 0.0100*** <i>(0.003)</i> | 0.0096*** (0.003) | 0.0096*** (0.003) | 0.0097*** <i>(0.003)</i> |
| DAYLYLIGHT | -0.0579*** <i>(0.007)</i> | -0.0582*** <i>(0.007)</i> | -0.0579*** <i>(0.007)</i> | -0.0582*** <i>(0.007)</i> | -0.0582** <i>(0.007)</i> |
| CLEARWEATHER | -0.0090*** (0.003) | -0.0087** <i>(0.003)</i> | -0.0089*** (0.003) | -0.0089*** (0.003) | -0.0092** (0.003) |
| HIGHSPLIM | -0.0081 <i>(0.005)</i> | -0.0084* <i>(0.005)</i> | -0.0085 <i>(0.005)</i> | -0.0092* <i>(0.005)</i> | -0.0093* <i>(0.005)</i> |
| HOLIDAY | 0.0372*** (0.008) | 0.0374*** <i>(0.008)</i> | 0.0370*** <i>(0.008)</i> | 0.0369*** <i>(0.008)</i> | 0.0369*** <i>(0.008)</i> |
| TWOWAY | 0.0444*** (0.003) | 0.0447*** | 0.0441*** (0.003) | 0.0444*** (0.003) | 0.0443*** |
| UNRATE | 0.0029** | 0.0050*** | 0.0044*** (0.001) | 0.0066*** (0.001) | 0.0053*** |
| SHARE_CATH | 0.0544** | 0.0668*** | 0.0462** | 0.0515** (0.021) | 0.0506** |
| HOSPITAL | -0.0375 (0.026) | -0.0404 (0.029) | -0.0353 (0.037) | -0.0115 <i>(0.038)</i> | -0.0231 <i>(0.035)</i> |
| (LN)RGDPPC | 0.0105*** (0.001) | 0.0095*** | 0.0122*** (0.002) | 0.0114 ^{***} <i>(0.002)</i> | 0.0122*** |
| SHARE_BLACK | 0.0844*** (0.025) | 0.1009*** (0.025) | 0.1056*** (0.026) | 0.1647*** (0.021) | 0.1571*** <i>(0.02)</i> |
| DRY | -0.0064 (0.02) | -0.0064 (0.021) | -0.0066 (0.02) | -0.0091 (0.02) | -0.0128 (0.02) |
| MEX_BORDER | 0.0093 (0.013) | 0.0096 (0.013) | 0.0109 (0.013) | 0.0097 (0.013) | 0.0088 (0.013) |
| Observations | 108,535 | 108,303 | 108,573 | 108,664 | 108,626 |
| R2 | 0.096 | 0.096 | 0.096 | 0.096 | 0.096 |

TABLE A4 - Estimation results: US Microanalysis (Logit model)

Notes: for the description of variables see Table 1. The dependent variable is always HITRUN. Results are expressed as marginal effects on the probability to flee after the accident. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the county level. Hour, days of the week, month, and year*state dummies always included but not reported.

| | 1 | 2 | 3 | 4 | 5 |
|--------------|-----------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|
| SOCCAP | -0.0206*** (0.004) | | | | |
| COLL_EFF | . , | -0.0153*** <i>(0.003)</i> | | | |
| FAMILY_UNITY | | | -0.0124*** <i>(0.003)</i> | | |
| COMM_HEALTH | | | | -0.001 <i>(0.004)</i> | |
| NST_HEALTH | | | | | -0.0127*** <i>(0.004)</i> |
| LOCALSTREET | 0.0631*** <i>(0.004)</i> | 0.0632*** (0.004) | 0.0636*** <i>(0.005)</i> | 0.0638*** <i>(0.005)</i> | 0.0637*** |
| JRBAN | 0.0081** (0.004) | 0.0085** | 0.0081** (0.004) | 0.0083** (0.004) | 0.0085** |
| DAYLYLIGHT | -0.0531*** | -0.0536*** | -0.0531*** | -0.0536*** | -0.0534*** |
| | (0.007) | (0.007) | (0.007) | (0.007) | (0.007) |
| CLEARWEATHER | -0.0101*** | -0.0098*** | -0.0100*** | -0.0100**** | -0.0103*** |
| | (0.004) | (0.004) | <i>(0.004)</i> | <i>(0.004)</i> | (0.004) |
| HIGHSPLIM | -0.0065 | -0.0069 | -0.0070 | -0.0076 | -0.0076 |
| | (0.006) | (0.006) | (0.006) | (0.006) | (0.006) |
| HOLIDAY | 0.0398*** | 0.0399*** | 0.0395*** | 0.0394*** | 0.0396*** |
| | (0.009) | (0.009) | (0.009) | (0.009) | (0.009) |
| TWOWAY | 0.0463*** | 0.0466*** | 0.0460*** | 0.0464*** | 0.0462*** |
| | (0.003) | (0.003) | (0.003) | (0.003) | (0.003) |
| JNRATE | 0.0027* | 0.0048*** (0.001) | 0.0043*** (0.002) | 0.0067*** (0.002) | 0.0052*** (0.002) |
| SHARE_CATH | 0.0594** | 0.0746*** | 0.0508** | 0.0569** | 0.0540** |
| | (0.024) | (0.024) | (0.025) | (0.024) | (0.024) |
| HOSPITAL | -0.016 | -0.0177 | 0.0092 | 0.0428 | 0.0239 |
| | (0.071) | (0.072) | (0.083) | (0.083) | (0.082) |
| (LN)RGDPPC | 0.0103*** (0.002) | 0.0093*** (0.002) | 0.0120*** (0.002) | 0.0112*** (0.002) | 0.0121*** |
| SHARE_BLACK | 0.0444* | 0.0603** | 0.0654** | 0.1273*** | 0.1192*** |
| | <i>(0.026)</i> | (0.026) | (0.028) | (0.024) | <i>(0.023)</i> |
| DRY | -0.0039 | -0.0048 | -0.0048 | -0.0074 | -0.0119 |
| | <i>(0.022)</i> | <i>(0.022)</i> | <i>(0.022)</i> | <i>(0.022)</i> | <i>(0.022)</i> |
| MEX_BORDER | 0.0064 | 0.0064 | 0.0080 | 0.007 | 0.0061 |
| | <i>(0.014)</i> | <i>(0.014)</i> | <i>(0.014)</i> | <i>(0.014)</i> | <i>(0.013)</i> |
| MALEPED | 0.0029 | 0.003 | 0.003 | 0.0032 | 0.0031 |
| | <i>(0.003)</i> | <i>(0.003)</i> | <i>(0.003)</i> | <i>(0.003)</i> | <i>(0.003)</i> |
| AGEPED | 0.0025*** | 0.0025*** | 0.0025*** | 0.0026*** | 0.0026*** |
| | (0.000) | <i>(0.000)</i> | (0.000) | (0.000) | (0.000) |
| AGEPED2 | -0.0000*** | -0.0000*** | -0.0000*** | -0.0000*** | -0.0000*** |
| | <i>(0.000)</i> | <i>(0.000)</i> | <i>(0.000)</i> | <i>(0.000)</i> | <i>(0.000)</i> |
| WHITEPED | -0.0290*** | -0.0291*** | -0.0290*** | -0.0290*** | -0.0291*** |
| | (0.004) | (0.004) | (0.004) | (0.004) | (0.004) |
| Observations | 89,515 | 89,306 | 89,550 | 89,635 | 89,600 |
| R2 | 0.100 | 0.100 | 0.100 | 0.099 | 0.100 |

Notes: for the description of variables see Table 1. The dependent variable is always HITRUN. Results are expressed as marginal effects on the probability to flee after the accident. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the county level. Hour, days of the week, month, and year*state dummies always included but not reported.

| | 1 | 2 | 3 | 4 | 5 |
|--------------|------------------------------|------------------------------|------------------------------|---------------------------|------------------------------|
| SOCCAP | -0.0210*** <i>(0.004)</i> | | | | |
| COLL_EFF | | -0.0160*** <i>(0.003)</i> | | | |
| FAMILY_UNITY | | | -0.0125*** <i>(0.003)</i> | | |
| COMM_HEALTH | | | | -0.0009 <i>(0.004)</i> | |
| INST_HEALTH | | | | . , | -0.0121*** <i>(0.004)</i> |
| Observations | 89,515 | 89,306 | 89,550 | 89,635 | 89,600 |
| R2 | 0.097 | 0.096 | 0.096 | 0.096 | 0.096 |
| Controls | Yes | Yes | Yes | Yes | Yes |

TABLE A6 - Estimation results: US Microanalysis (Logit model)

Notes: for the description of variables see Table 1. The dependent variable is always HITRUN. Results are expressed as marginal effects on the probability to flee after the accident. Superscripts ***, ** and * denote statistical significance at the 1, 5 and 10 percent level, respectively. The standard errors reported in parentheses are corrected for heteroskedasticity and clustering of the residuals at the county level. In all models, we control for LOCALSTREET, URBAN, DAYLYLIGHT, CLEARWEATHER, HIGHSPLIM, HOLIDAY, TWOWAY, UNRATE, SHARE_CATH, HOSPITAL, RGDPPC, SHARE_BLACK, DRY, MEX_BORDER (The variables description is reported in Table 1). Hour, days of the week, month, and year*state dummies always included but not reported.

| Indicators | Data Source | Notes | | |
|---|---|--|--|--|
| Family Unity Subindex | | | | |
| Share of births in past year to women who were unmarried | American Community Survey, 2012-2016, 5-year estimates | American FactFinder Table S1301 | | |
| Share of women ages 35-44 who are currently married (and not separated) | American Community Survey, 2012-2016, 5-year estimates | American FactFinder Table B12002 | | |
| Share of own children living in a single-parent family | American Community Survey, 2012-2016, 5-year estimates | American FactFinder Table B09002 | | |
| Community Health Subindex | | | | |
| Registered non-religious non-profits per 1,000 | IRS, Business Master File, 12/2015; ACS population estimates, 7/2015 (2015 vintage) | via National Center for Charitable Statistics & American FactFinder Table PEPANNRES | | |
| Religious congregations per 1,000 | U.S. Religion Census: Religious Congregations and Membership Study, 2010 | via Association of Religious Data Archives, census conducted 2009-11 | | |
| nformal Civil Society Sub-Index | See notes | combination of share who volunteered, who at- tended a public meeting, who report having worked with neighbors to fix/improve some- thing, who served on a committee or as an officer, who attended a meeting where politics was discussed, and who took part in a demon- stration in the past year (see text for details) | | |
| nstitutional Health Subindex | | | | |
| Average (over 2012 and 2016) of votes in the presidential election per citizen age 18+ | Election Administration and Voting Survey; ACS, 2012-2016, 5-year estimates | U.S. Election Assistance Commission; EAVS voting combined with American FactFinder Table B05003 estimates of citizens 18+; votes unavailable for Alaska counties, which we assign the state-wide voting rate | | |
| Mail-back response rates for 2010 census | Census Bureau | via University of Michigan Population Studies Center, Institute for Social Research | | |
| Confidence in Institutions Sub-Index | Volunteer Supplement to the November 2013 Current Population Survey | combination of share reporting at least some confidence in corporations, in the media, and in public schools (see text for details) | | |
| collective Efficacy | | | | |
| /iolent crimes per 100,000 | FBI, Uniform Crime Reporting Statistics, 2008-14 | via County Health Rankings, various editions: 2017 (2012-14 UCR data), 2015 (2010-12), 2014 (2009-11), and 2013 (2008-10) | | |

TABLE A7 - County-Level Social Capital Index Indicators

Source: The Geography of Social Capital in America.

TABLE A8 - State-Level Social Capital Index Indicators

| ndicators | Data Source | Notes |
|---|---|--|
| Family Unity Subindex | | |
| Share of births in past year to women who vere unmarried | American Community Survey, 2012-2016, 5-year estimates; 2007-2011, 5-year esti- mates for 27 counties in eight states | American FactFinder Table S1301 |
| Share of women ages 35-44 who are cur- ently married (and not separated) | American Community Survey, 2012-2016, 5-year estimates | American FactFinder Table B12002 |
| Share of own children living in a single-par- ent family | American Community Survey, 2012-2016, 5-year estimates | American FactFinder Table B09002 |
| amily Interaction SubIndex | | |
| Share who report child spends at least 4 ours per weekday in front of a TV | National Survey of Children's Health, 2016 | includes watching TV, videos, or video games |
| Share who report child spends at least 4 nours per weekday on electronic device, ex- cluding homework | National Survey of Children's Health, 2016 | includes computers, cell phones, handheld video games, and other elec- tronic devices |
| Share who report someone in the family read o child every day in past week | National Survey of Children's Health, 2016 | restricted to parents with child 0-5 years old |
| Social Support Subindex | | |
| Share saying they get the emotional support hey need only sometimes, rarely, or never | Behavioral Risk Factor Surveillance System | analysis of BFRSS microdata, 2006 & 2010 estimates averaged to get pre- and post-recession estimates |
| Average number of close friends reported by adults | Civic Engagement Supplement to the No- vember 2008 Current Population Survey | |
| Share of adults reporting they and their neighbors do favors for each other at least x/month | Volunteer Supplement to the November 2013 Current Population Survey | |
| Share of adults reporting they can trust all or nost of their neighbors | Volunteer Supplement to the November 2013 Current Population Survey | |
| Community Health Subindex | | |
| Share of adults who report having volun- eered for a group in the past year | Volunteer Supplement to the September 2015 Current Population Survey | |
| Share who report having attended a public neeting re. community affairs in past year | Volunteer Supplement to the September 2015 Current Population Survey | |
| Share who report having worked with neigh- bors to fix/improve something in past year | Volunteer Supplement to the September 2015 Current Population Survey | |
| Share of adults who served on a committee or as an officer of a group | Volunteer Supplement to the November 2013 Current Population Survey | |
| Share who attended a meeting where politi- al issues were discussed in past year | Civic Engagement Supplement to the No- vember 2008 Current Population Survey | |
| Share who took part in march/rally/pro- est/demonstration in past year | Civic Engagement Supplement to the No- vember 2008 Current Population Survey | |

| Membership organizations per 1,000 | County Business Patterns, 2015; ACS population estimates, 7/2015 (2015 vintage) | American FactFinder Tables CB1500A11 & PEPANNRES |
|---|---|---|
| Registered non-religious non-profits plus re- ligious congregations per 1,000 | IRS, Business Master File, 12/2015; ACS population estimates, 7/2015 (2015 vin- tage); U.S. Religion Census: Religious Con- gregations and Membership Study, 2010 | IRS data via National Center for Charita- ble Statistics & American FactFinder Ta- ble PEPANNRES; congregation data ob- tained via Association of Religious Data Archives, census conducted 2009-11 |
| Institutional Health Subindex | | U.S. Election Assistance Commission: |
| Average (over 2012 and 2016) of votes in the presidential election per citizen age 18+ | Election Administration and Voting Survey | EAVS voting combined with American FactFinder Table B05003 estimates of cit- izens 18+; votes unavailable for Alaska counties, which we assign the statewide voting rate |
| Mail-back response rates for 2010 census | Census Bureau | |
| Share of adults reporting some or great con- fidence in corporations to do what is right | Volunteer Supplement to the November 2013 Current Population Survey | |
| Share of adults reporting some or great con- fidence in the media to do what is right | Volunteer Supplement to the November 2013 Current Population Survey | |
| Share of adults reporting some or great con- fidence in public schools to do what is right | Volunteer Supplement to the November 2013 Current Population Survey | |
| Collective Efficacy | | |
| Violent crimes per 100,000 | FBI, Uniform Crime Reporting Statistics, 2008-14 | |
| Philanthropic Health | | |
| Share who report having made a donation of >\$25 to a charitable group in past year | Volunteer Supplement to the September 2015 Current Population Survey | |

Source: The Geography of Social Capital in America.

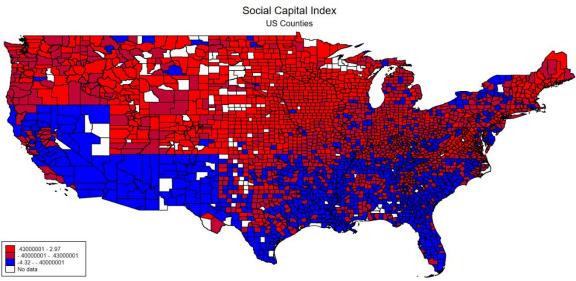
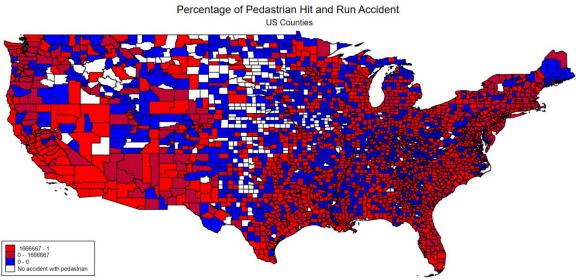


Figure 1. Social Capital Index Scores in the US, by county

Authors' elaboration on The Geography of Social Capital project data

Figure 2. Percentage of a pedestrian hit-and-run accident in the US, by county



Authors' elaboration on FARS data

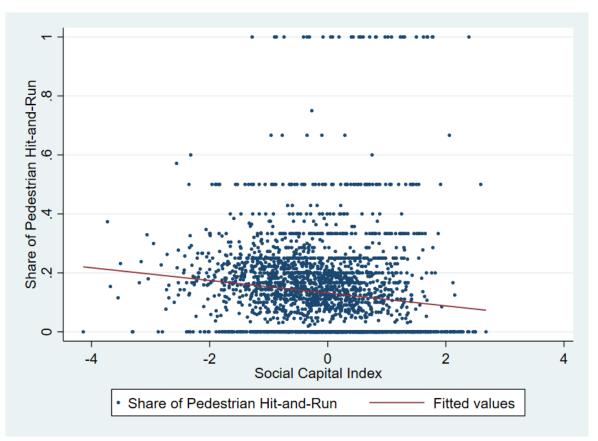


Figure 3. Share of pedestrian hit-and-run (2000 – 2018) and Social Capital Index, by county

Authors' elaboration on The Geography of Social Capital project data and FARS data.

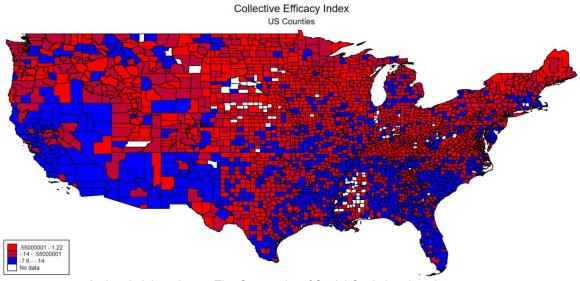


Figure A3. Collective Efficacy Index Scores in US, by county

Authors' elaboration on The Geography of Social Capital project data

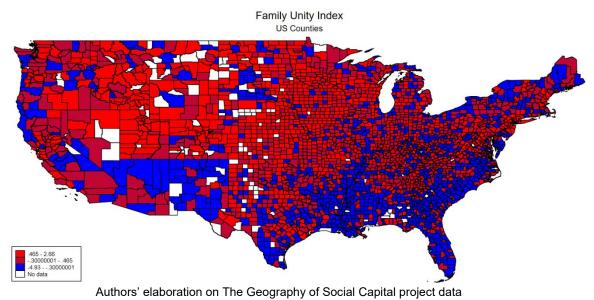


Figure A2. Family Unity Index Scores in US, by county



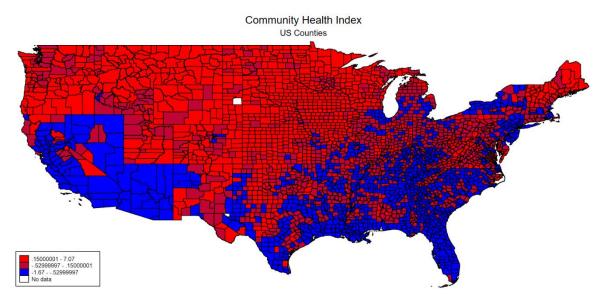


Figure A3. Community Health Index Scores in US, by county

Authors' elaboration on The Geography of Social Capital project data

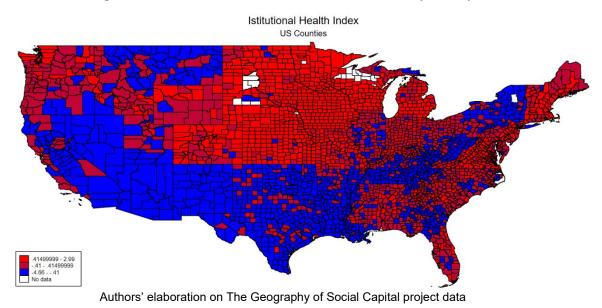
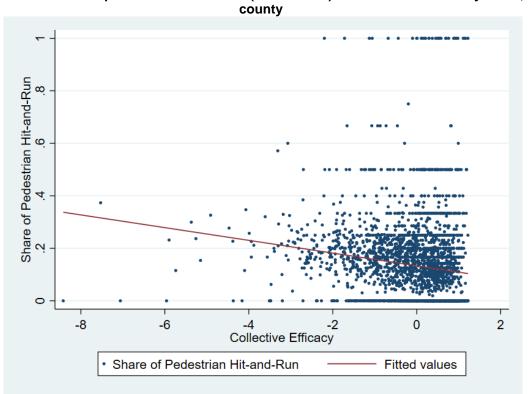


Figure A4. Institutional Health Index Scores in US, by county

Figure A5. Share of pedestrian hit-and-run (2000 – 2018) and Collective Efficacy Index, by



Authors' elaboration on The Geography of Social Capital project data and FARS data.

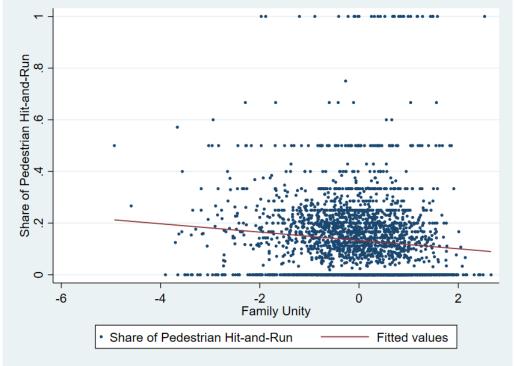
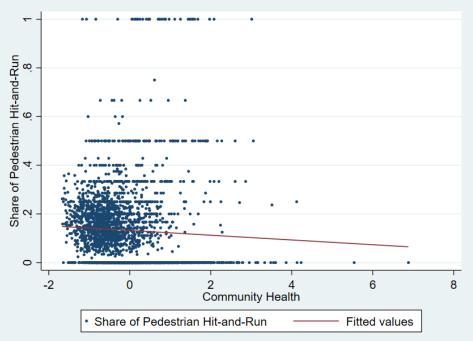


Figure A6. Share of pedestrian hit-and-run (2000 – 2018) and Family Unity Index, by county

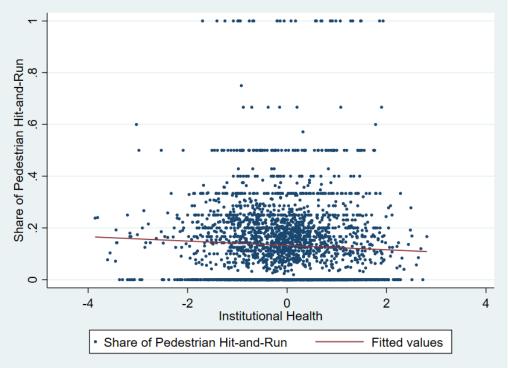
Authors' elaboration on The Geography of Social Capital project data and FARS data.

Figure A7. Share of pedestrian hit-and-run (2000 – 2018) and Community Health Index, by county



Authors' elaboration on The Geography of Social Capital project data and FARS data.

Figure A8. Share of pedestrian hit-and-run (2000 – 2018) and Institutional Health Index, by county



Authors' elaboration on The Geography of Social Capital project data and FARS data.

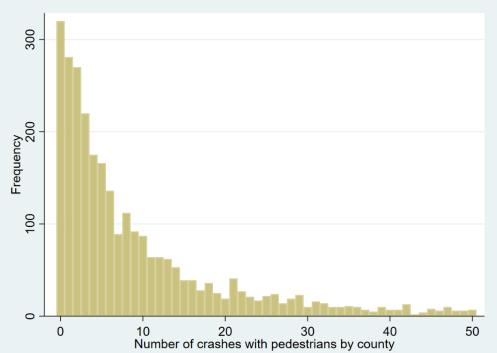


Figure A9. Number of crashes with pedestrians (2000 - 2018), by county

Authors' elaboration on FARS data. To have a readable figure, we have truncated the distribution at 50 crashes.

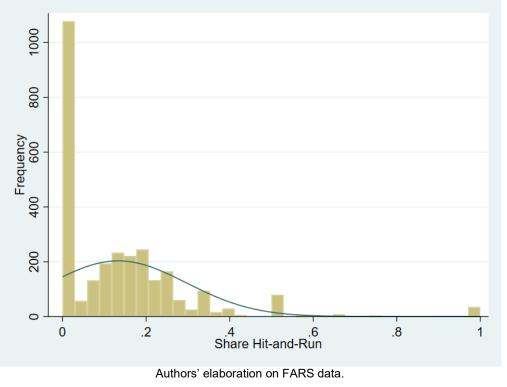
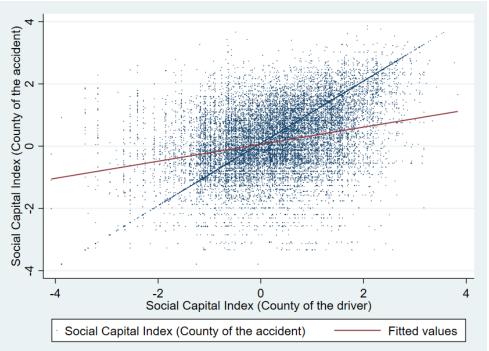


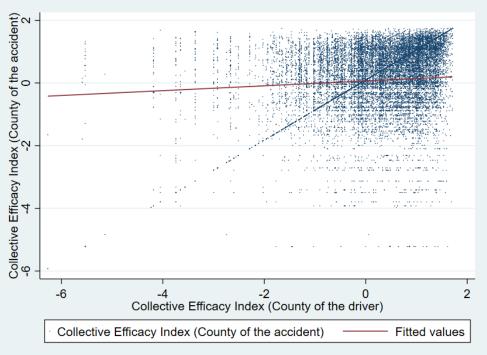
Figure A10. Share of pedestrian hit-and-run (2000 – 2018), by county

Figure A11. Social Capital Index county of the accident and Social Capital Index county of the driver



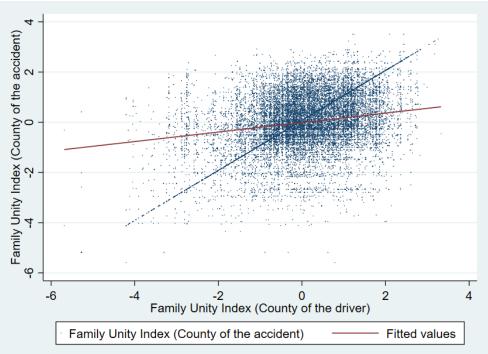
Authors' elaboration on The Geography of Social Capital project data and FARS data.

Figure A12. Collective Efficacy Index county of the accident and Collective Efficacy Index county of the driver



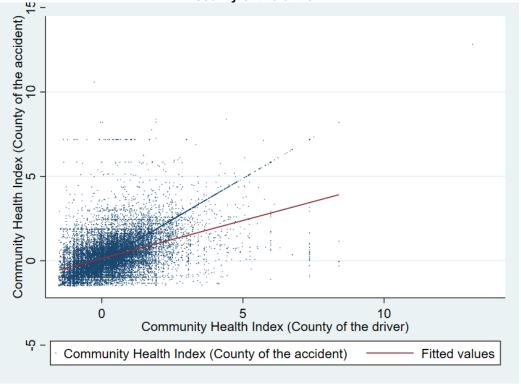
Authors' elaboration on The Geography of Social Capital project data and FARS data.

Figure A13. Family Unity Index county of the accident and Family Unity Index county of the driver



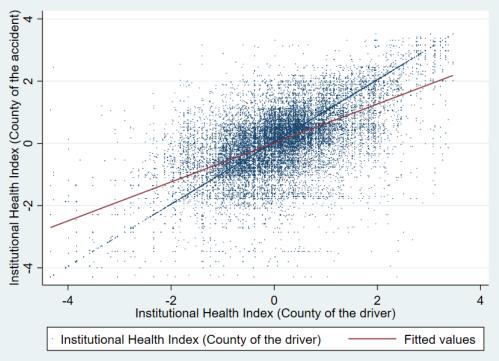
Authors' elaboration on The Geography of Social Capital project data and FARS data.

Figure A14. Community Health Index county of the accident and Community Health Index county of the driver



Authors' elaboration on The Geography of Social Capital project data and FARS data.

Figure A15. Institutional Health Index county of the accident and Institutional Health Index county of the driver



Authors' elaboration on The Geography of Social Capital project data and FARS data.