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Burden Sharing: Income, Inequality, and Willingness to Fight¹

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Abstract

What explains citizens' willingness to fight for their country in times of war? Using six waves of the World Values Survey, we find that individual willingness to fight is

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negatively related to country-level income inequality. When income inequality is high, the rich are less willing to fight than the poor. When inequality is low, the poor and the rich do not differ much in their willingness to fight. The change in the willingness to fight between low and high inequality is greater among the rich than among the poor. We explore several explanations for these findings. The data are consistent with the argument that high inequality makes it more attractive for the rich to buy themselves out of military service.

Key words: war, fight, inequality, income, survey

Citizens' willingness to fight for their country affects governments' decisions to go to war and, once a conflict has started, a country's performance on the battlefield.² What, then, explains citizens' willingness to fight for their country in times of war? While high-profile traumatic events, such as the terrorist attacks in Paris in November 2015 or the 9/11 attacks on New York, can propel people to sign up and protect their country,³ relatively little is known about people's willingness to serve. Below, we explore some of the more enduring and material, rather than short-term or affective, determinants of individual willingness to fight for one's country. Specifically, we focus on how individual income and country-level income inequality jointly relate to the willingness to fight.

Using data from six waves of the World Values Survey⁴ with over 100,000 respondents from more than 90 countries, we provide the most comprehensive analysis of the link between income, income inequality, and people's willingness to fight that has been conducted to date. We find that respondents from countries where income is more evenly distributed are more willing to fight for their country than respondents from high-inequality countries. Furthermore, there is no direct relationship between individual income and willingness to fight. Rather, the association between willingness to fight and respondents' income depends on a country's level of income inequality: when income inequality is high, higher income individuals are less willing to fight for their country than their lower income compatriots. When inequality is low, differences in the

² Reiter and Stam 2002.

³ Alderman 2015.

⁴ WVS 1981-2014.

willingness to fight between better-off and less well-off citizens are modest and substantially smaller than the differences between rich and poor in high-inequality settings. Thus, people at the opposite ends of the income spectrum differ in their willingness to fight for their country only when income inequality is high. Finally, our analyses indicate that differences between the rich in high versus low inequality settings are more pronounced than differences between the poor in high and low inequality settings, suggesting that it is willingness to fight on the part of the rich rather than the poor that is chiefly affected by inequality.

We examine several potential explanations for these findings, including arguments based on mobilization costs, nationalism, redistribution concerns, and capital intensity. Our results show the mobilization cost account to be most consistent with the data, especially with respect to the very rich in countries where inequality is most pronounced. More precisely, under such conditions better-off individuals can effectively "buy themselves out of service" by paying their poorer compatriots to serve rather than doing so themselves. Meanwhile, as noted, the poor in high-inequality countries do not differ much from the poor in low-inequality settings in their willingness to fight, as would be expected if only opportunity costs are considered.

This paper makes several contributions. First, we provide insights into the country-level and individual-level foundations of war-related attitudes that are central to states' ability to mobilize their populations and to their performance in the battlefield. Second, our findings suggest that, in addition to factors such as feelings of patriotism, individuals' backgrounds (e.g. gender, age), or the country's history of military conflict, material considerations are important drivers of citizens' willingness to fight, especially

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when it comes to wealthier individuals. Finally, we contribute to the growing literature on the link between income inequality and conflict by examining the role of economic factors in shaping attitudes about wartime behavior.

Income, Inequality, and Willingness to Fight

In recent years, social scientists have begun to explore why people are willing to fight for their country. For example, studies have shown that demographic and attitudinal factors matter – for instance, women, older people, divorced individuals, and the unemployed have been found to be less willing to fight, and education does not appear to be a strong predictor of the inclination to serve.⁵ Perhaps not surprisingly, attitudes such as national pride, confidence in the army, and support for an authoritarian regime are positively correlated with the willingness to fight.⁶ Country-level factors are also at work: willingness to fight is higher in the Nordic countries and lower in enduring democracies and countries that were on the losing side in World War II.⁷ Current politics and policies matter, too, as a country's entanglement in ongoing conflicts⁸ and having a conscription army⁹ have also been linked with individual motivation to fight for one's country.

While undoubtedly important, one issue this previous research has yet to address is whether and how economic considerations and circumstances shape the willingness to fight. Our article tries to fill this gap by focusing on two prominent variables – individual income and country-level disparities in how income is distributed. We focus on

⁵ Puranen 2014; Torgler 2003.

⁶ We control for these and additional factors in our empirical tests.

⁷ Inglehart et al. 2015.

⁸ Alderman 2015; Braw 2015.

⁹ Horowitz and Levendusky 2011.

inequality because the economic foundations of war have long been of interest to political scientists. The literature on war assumes that war is costly because it requires inputs of economic resources and labor.¹⁰ A large strand in this literature suggests that these costs are not spread equally among individuals. Esteban and Ray show that at times of war, wealthier individuals choose to provide economic resources rather than labor because their market income exceeds what they can potentially earn through military service.¹¹ Poorer individuals, however, choose to contribute their labor because their market income is lower than their expected compensation for serving. There is plenty of anecdotal evidence in support of this opportunity-cost-based logic. Military service often offers clear material advantages like a steady income, along with a means of acquiring human capital through education and technical training. The latter can lead to more satisfying and higher-paying careers after military service, particularly for minorities and marginalized groups.¹² In some cases, military service even provides a path to acquiring political and legal rights, citizenship, and national integration for marginalized groups.¹³

All told, the poor may feel that they have little to lose and much to gain from military service, and there is ample evidence that combatants are often recruited from the poorer segments of society.¹⁴ Likewise, rich individuals often

¹⁰ Esteban and Ray 2011; Huber and Mayoral 2013.

¹¹ Esteban and Ray 2011.

¹² Andreski 1968; Elder 1987; Sampson and Laub 1996.

¹³ Krebs 2004.

¹⁴ Brubaker and Laitin 1998; Esteban and Ray 2011; Humphreys and Weinstein 2008; Lutz 2008.

have legal means of buying themselves out of military service.¹⁵ While some studies have questioned the empirical validity of the opportunity cost argument,¹⁶ we would expect a negative relationship between individual income and willingness to fight for one's country.

Other studies suggest that the distribution of income in society, measured at the country level, may affect citizens' willingness to fight for their country. A large body of work suggests that income disparities beget intolerance, reduce civic participation, weaken interpersonal trust and satisfaction with the political system, and shape attitudes about gender equality.¹⁷ Economic disparities have also been viewed as drivers of within-state instability.¹⁸ Thus, if inequality reduces within-state cohesion, it may be associated with a lower willingness of citizens to fight for their country. Inequality, however, may also have the opposite effect, at least among some. Solt, for example, provides evidence that income disparities are positively related to nationalistic sentiments.¹⁹ Given that national pride is positively correlated with willingness to fight in times of war,²⁰ inequality may increase willingness to fight for one's country, to the extent that it increases nationalism. Whether income inequality enhances or diminishes people's willingness to fight is an open empirical question at this time.

¹⁵ Braw 2015; Gurcan 2014.

¹⁶ Berman, Callen, Felter, and Shapiro 2011.

 ¹⁷ Andersen and Fetner 2008; Anderson and Beramendi 2008; Anderson and Singer 2008; Brady 2004;
 Inglehart and Baker 2000; Gilens 2005; Rothstein and Uslaner 2005.

¹⁸ Alesina and Perotti 1996; Cederman, Weidmann and Gleditsch 2011.

¹⁹ Solt 2011.

²⁰ Puranen 2014; Torgler 2003.

There is some suggestive evidence that it does. Using the WVS data, Inglehart, Puranen, and Welzel report that members of wealthier societies may have less willingness to fight because they view their lives – and the value of their lives – in very different ways compared to members of poorer societies.²¹ More specifically, improved living conditions bring fundamental shifts in people's beliefs and values, most notably their readiness to sacrifice their lives. Building on this "opportunity–value link" (whereby subjective human values are linked to objective life opportunities), they demonstrate that the publics of developed societies have become more supportive of "emancipative/postmaterialist values" while their willingness to fight in war has declined.

Our study extends Inglehart, Puranen, and Welzel's thesis in several ways. First, while they highlight the role of "life opportunities" – a composite country-level measure that includes, among other things, the inverted Gini index – in explaining willingness to fight, our measures imply an important independent impact of income inequality. In fact, the economic explanation in their study receives relatively little empirical attention. Not only is the Gini index only one of six multi-component indicators of "life opportunities", its low factor loading (0.56) (the lowest of the six items in the index) suggests that it captures a separate empirical and, we believe theoretical, dimension. Second, we examine how individual income and country-level income inequality jointly shape individual willingness to fight, whereas Inglehart, Puranen, and Welzel do not examine individual income. In the present paper, we explore the economic explanation more deeply, notably the interactive effect of individual income and country-level disparities on willingness to

²¹ Inglehart et al. 2015.

fight, thereby focusing on a different set of hypotheses than those tested by Inglehart, Puranen, and Welzel.

Beyond the additive impact of individual and country-level economic drivers of willingness to fight, some research has sought to connect individual-level income and country-level inequality by suggesting that the two interact to affect willingness to fight for one's country. This scholarship offers four main mechanisms for this interaction. First, according to Shayo,²² inequality increases nationalism among the poor for whom identification with the nation offers higher-status than their economic identity. To the extent that nationalism is correlated with willingness to fight, we may therefore expect that when inequality is high, the poor should be more willing to fight for their country than the rich. This logic implies that there may not be substantial differences between different economic strata when income inequality is low.

A second proposed mechanism for a conditional effect of income and inequality on willingness to fight focuses on mobilization costs. Esteban and Ray suggest that inequality lowers both the financial and the human opportunity cost of conflict.²³ Thus, when inequality is high it becomes cheaper for the rich to pay the poor to take on the burden of military service. High inequality also makes it more attractive for the poor to fight in exchange for benefits. Kuhn and Weidmann empirically show that greater income disparities within an ethnic group make ethnic conflict more likely because they make

²² Shayo 2009.

²³ Esteban and Ray 2011.

mobilizing the poor cheaper, and the rich have more resources to spare for mobilization.²⁴ Applying this logic to the country level suggests that greater inequality makes it cheaper for the rich to buy themselves out of service because poor individuals are willing to serve. This view also implies that we should not expect big differences between the poor and the rich when inequality is low.

A third proposed mechanism based on Scheve and Stasavage, holds that wars that require full mobilization increase support for redistribution and progressive taxation.²⁵ This implies that when initial inequality is high, demands for redistribution are greater than when inequality is low. Thus, anticipating future demands for higher taxation, the rich in high-inequality countries may be less willing to serve than the poor (and less willing to support war altogether), knowing that they will face higher taxation. In low-inequality countries, people at both ends of the spectrum should be relatively similar in their willingness to fight because low inequality means that taxation and redistribution are not expected to increase by much in the event of a war.

Finally, focusing on democracies, Caverley suggests that poorer individuals in high inequality contexts may be more willing to fight for their country because the capital intensity of their militaries reduces the likelihood that they will have to sacrifice their lives.²⁶ Meanwhile, the rich in democracies should be less willing to fight for their country if inequality is high because they will bear a disproportionate share of the

²⁴ Kuhn and Weidmann 2015. This is because as income inequality increases, there are more individuals whose income is below the mean income. Thus, it becomes cheaper for the rich to pay them, and also more attractive for the poor to accept payment in exchange for mobilization.

²⁵ Scheve and Stasavage 2010.

²⁶ Caverley 2014.

economic costs of war. This explanation also implies that as inequality goes down, we should observe fewer differences between the rich and the poor in their willingness to fight.

To sum up, the literature implies that socio-economic position is likely to be a strong determinant of individual willingness to fight for one's country at times of war. Individuals are more likely to express the willingness to join up if they expect to receive selective economic incentives that outweigh any benefits of not joining.²⁷ However, we should be cautious about the simplistic conclusion that low income alone is a sufficient trigger for military service at times of war. We propose that while low income is a motivating factor, its effect is conditional on the unequal distribution of income.

Taken together, the existing theorizing and evidence suggests four empirically testable hypotheses:

Hypothesis 1: Willingness to fight is lower in high inequality countries.

Hypothesis 2: In general, willingness to fight is lower among the rich than among the poor.

Hypothesis 3: In high inequality countries, willingness to fight is lower among the rich than among the poor.

Hypothesis 4: There are no major differences between the poor and the rich when inequality is low.

²⁷ Previous studies empirically demonstrate that self-interest affects individual support for war. For example, Horowitz and Levendusky (2011) show that introducing conscription decreases support for war among those who are most likely to be drafted.

It should be noted that, for any given individual, willingness to fight may be moderated by the associated risk of actually having to do so. The most obvious variables that may affect these odds are gender and age, with young males between the ages of 18 and 45 much more likely to experience conscription in times of war than women.

Data and Empirical Method

This section outlines the model and the data we use for the empirical analysis. Additional description of the data is in the Appendix. The unit of analysis is individual, based on responses to the World Value Surveys waves 1 through 6 (the list of countries and years is in Table A.1 in the Appendix).²⁸

Our basic specification is designed to estimate the effect of individual-level income and country-level inequality on the probability of an affirmative answer to the WVS willingness to fight for their country question, controlling for individual- and country-level variables that may affect this answer.²⁹ Formally, we estimate different versions of the following probit model:

 $Pr(Willingness to Fight_{i,j,t} = 1 | QuintileZ_i, Gini_{j,t-1}, X_i, X_{j,t-1}, \lambda_j, \gamma_t)$

 $= G(QuintileZ_{i} + Gini_{j,t-1} + QuintileZ_{i} \times Gini_{j,t-1} + X_{i,t} + X_{j,t-1} + \lambda_{j} + \gamma_{t})$

²⁸ WVS 1981-2014.

²⁹ The wording of the question is: "Of course we all hope that there will not be another war, but if it were to come to that, would you be willing to fight for your country?" The possible answers are "yes" and "no". This question appears in all the six waves of the survey, but not in all country-years.

where *Willingness to Fight*_{*i,j,t*} equals 1 if respondent *i* from country *j* in survey *t* replies "yes" to the WVS question about willingness to fight, and it equals 0 if the answer is "no". The distribution of answers to this question is Figure 1. There is a high degree of heterogeneity among countries, with the percent of affirmative answers ranging from 26 per cent in Japan to 98 per cent in Vietnam. The median percent of missing values per country-year in the *Willingness to Fight* question is 12 per cent, and the mean is 20 per cent.³⁰

³⁰ In the robustness checks section, we show that our results are not driven by country-years with unusually high share of missing values.

Figure 1: Willingness to Fight



QuintileZ^{*i*} is a vector of respondent *i*'s five income group fixed effects, with *Z* denoting income quintile.³¹ These variables are based on the WVS question that asks respondents to indicate their income group on a scale from one (lowest income group) to ten (highest income group). We convert these self-reported income deciles into five quintiles, and include five binary indicators of income quintiles. *Gini*_{*j*,*t*-1} is country-level income inequality measure based on the Net Gini variable from the Standardized World Income Inequality Dataset, SWIID.³² We interact each indicator of *QuintileZ*^{*i*} with *Gini*_{*j*,*t*-1} to examine whether country-level inequality affects the relationship between income quintile and willingness to fight.

 $X_{i,t}$ is a vector of individual-level predictors taken from the WVS surveys. We include indicators for gender (*Female_i*), age and age squared (*Age* _i and *Age*²_i), three fixed effects for marital status (*Single_i*, *Married/Living together_i*, and *Divorced/ Separated_i*), and an indicator for whether the respondent listed a religious denomination. We use this variable to control for religiosity, although there may be secular individuals who nonetheless name a religious affiliation. In the Appendix, we also report results of tests that include additional control variables such as education and being a member of a minority group, and attitudinal controls such as confidence in government

³¹ For example, *Quintile***1**_{*i*} = 1 if individual *i* is in the lowest (first) income quintile, and it equals 0 if individual *i* is in some other income quintile.

³² Solt 2009. In robustness checks, we show that our results are robust to alternatives measures of inequality -- the relative redistribution measure from SWIID and the *Luxembourg Income Studies (LIS)* Gini indicator. The latter is available for only 33 countries in the WVS dataset. The advantage of *LIS* is that it is based on household surveys, whereas SWIID is created using multiple imputations. However, using *LIS* as our primary measure would have restricted the scope of our analysis significantly.

and in the army, and feelings of national pride. Suffice it to say that inclusion of these controls does not change our main results.

 $X_{i,t-1}$ is a vector of country-level time-varying characteristics. In this vector, we include $GDP_{j,t-1}(\log)$ and $Population_{j,t-1}(\log)$ using data from the Penn World Tables version 7.1.³³ We also control for the type of political regime. Figure 1 suggests that democratic countries tend to have lower levels of willingness to fight than less democratic countries (although there are outliers, such as Sweden and Norway that rank high on the willingness to fight). We control for regime type by including a variable *Democracy*_{*i*,*t*-1} that ranges from zero (full autocracy) to one (full democracy), and is based on democracy and autocracy scores from Polity IV.³⁴ Additionally, we control for country's prior involvement in conflict in any of the five years that precede the survey $(Conflict5_{i,t-1})$. The data on conflict are from MID 4.0 and UCPD/PRIO Armed Conflict Dataset v.4-2014.³⁵ In addition, we include an indicator *Conscription*_{*j*,*t*-1} that equals one if a respondent's country has a conscription-based military.³⁶ Finally, in some specifications reported in the Appendix, we control for country-level ethnolinguistic fractionalization measured in 1961 ($ELF61_i$).³⁷ Country-level controls are lagged. Summary statistics of individual-level and country-level variables are in the online appendix.

³³ Heston, Summers, and Aten 2012.

³⁴ Marshall, Gurr, and Jaggers 2013. $Democracy_{j,t-1} = \frac{Democracy \, score_{j,t-1} - Autocracy \, Score_{j,t-1} + 20}{20}$.

³⁵ Kenwick, Lane, Ostick, and Palmer 2013; Lotta and Wallensteen 2014.

³⁶ CIA N.d.; WRI N.d.

³⁷ Roeder 2001.

 λ_j is a country fixed effect that controls for time-invariant country-level factors, and we include it to reduce the possibility of omitted variable bias.³⁸ γ_t is a survey-wave fixed effect that absorbs time trends in responses to the willingness to fight question.³⁹ In some specifications, we cluster the standard errors at the subnational geographic area, using information on the respondent's subnational region of residence available for some surveys. Since in some cases responses from the same region may be correlated (for example, due to common ethnicity or past experience with conflict), we also report results adjusted for potential clustering within countries.

Main Results

Table 1 presents the coefficients of various specifications of the model. Here we report results for male respondents only. In the online appendix, we report results of the entire sample, as well as the coefficients of our various control variables. We focus on male respondents because females are not required to serve in the military in all the countries in our sample, with the exception of Israel. Thus, by answering this question, male respondents are asked to consider a situation in which they might find themselves under

³⁸ Country fixed effects absorb several factors that previous research finds to be correlated with responses to the willingness to fight question, such as being from a Nordic country or from a country that lost in World War II (Puranen 2014; Inglehart et al. 2015). Instead of explicitly controlling for all these factors (and risking the possibility of omitting some of them), we choose to incorporate country fixed effects.
³⁹ Inglehart et al. (2015) find that willingness to fight in WVS decreases over time. Since we are using all available WVS waves, we account for this trend by incorporating a wave dummy.

some conceivable circumstances. In all models, our baseline is quintile five (the wealthiest respondents). We use all the 100 $Gini_{j,t-1}$ imputations.⁴⁰

⁴⁰ We use the –mi estimate- prefix in Stata (Stata 2013).

Variable	(1)	(2)	(3)	(4)	(5)
Gini	-1.765***	-1.684***	-2.53***	-2.33***	-2.57***
	(0.374)	(0.499)	(0.40)	(0.52)	(0.79)
Q1	0.000	0.033	-0.44***	-0.37***	-0.37***
-	(0.020)	(0.021)	(0.08)	(0.08)	(0.10)
Q2	0.010	0.041**	-0.30***	-0.20**	-0.23**
	(0.019)	(0.020)	(0.08)	(0.08)	(0.10)
Q3	0.021	0.043**	-0.18**	-0.08	-0.07
	(0.019)	(0.020)	(0.08)	(0.08)	(0.10)
Q4	0.021	0.042**	-0.19**	-0.12	-0.13
	(0.020)	(0.021)	(0.08)	(0.09)	(0.10)
Q1 × Gini			1.18***	1.05***	1.04***
			(0.21)	(0.22)	(0.27)
Q2 × Gini			0.84***	0.64***	0.700***
			(0.20)	(0.21)	(0.26)
Q3 × Gini			0.56***	0.35	0.20
			(0.20)	(0.21)	(0.27)
Q4 × Gini			0.59***	0.45**	0.46*
			(0.21)	(0.22)	(0.25)
Individual	No	Yes	No	Yes	Yes
controls					
Country	No	Yes	No	Yes	Yes
controls					
Country fe	Yes	Yes	Yes	Yes	Yes
Survey fe	Yes	Yes	Yes	Yes	Yes
Clustered se	No	No	No	No	Yes
Constant	1.579	23.153***	1.84***	22.91***	29.02***
	(0.125)	(2.420)	(0.14)	(2.44)	(5.46)
Ν	117,095	107,605	117,095	107,605	98,288
(countries)	(91)	(87)	(91)	(87)	(83)
F	91.96	82.27	88.44	78.87	38.09
Prob > F	0.000	0.000	0.000	0.000	0.000

Table 1: Main results

* $p \le 0.1$, ** $p \le 0.05$, *** $p \le 0.01$

Notes: The unit of observation is individual. Q5 is the baseline. Standard errors are in parentheses. These results are based on male respondents only (full sample results are in the Appendix). Column (5) reports robust standard errors adjusted for clustering within country. The individual controls include a gender indicator, age, age squared, three marital status fixed effects, and an indicator for whether the respondent is listed a religious denomination. The country controls include log of population, log of GDP, democracy score, an indicator for whether the respondent's country was involved in a conflict at some point within the five years prior to the survey, and an indicator for whether the respondent's include country and survey fixed effects.

We start with a simple model, controlling only for country and survey fixed effects, and without interacting individual income and country income inequality. Column 1 suggests that inequality is negatively related to willingness to fight (Hypothesis 1), but that individual income does not have a statistically significant relationship with willingness to fight (Hypothesis 2). When we add individual- and country-level timevarying controls in column 2, inequality is still negatively associated with willingness to fight. The relationship between willingness to fight and income appears to be non-linear: it is higher in the middle of the income scale (quintiles 2, 3, and 4), with lower willingness among the poorest (quintile 1) and the wealthiest (quintile 5) respondents. In summary, while willingness to fight for one's country is negatively associated with country-level inequality (in support of Hypothesis 1), there is no strong direct association with individual income (contrary to Hypothesis 2).

Moving on with our tests, we interact income inequality with individual income to examine whether the effect of income on willingness to fight is conditional on income disparities. In column 3, we test a simple model without controls (we include only country and survey fixed effects), and in column 4 we add individual- and country-level time-varying controls. In column 5, we adjust standard errors for within-country clustering. In the Appendix, we show that the results are also robust to clustering at the country-level. The results suggest the negative relationship between inequality and willingness to fight holds here as well. Moreover, the coefficients of some quintiles and the interaction terms are statistically significant.

Since the coefficients cannot be directly interpreted, in Table 2 we present the predicted probabilities of "yes" for each income quintile, holding net Gini at its minimum

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(low inequality) and then at its maximum (high inequality), and keeping the other variables at their real values.⁴¹ These results are based on models with individual and country controls, as well as country and survey fixed effects, and clustered standard errors. They are the most conservative estimates – our findings are stronger for models with fewer controls. Figure 2 depicts the predicted probabilities for male respondents, by income and inequality level.

⁴¹ To calculate predicted probabilities, we use the –mimrgns- command in Stata:

https://ideas.repec.org/c/boc/bocode/s457795.html, accessed April 3, 2017.

			(1)				(2)	
		Low 1	Inequality			High	Inequality	У
	Predicted	St. Err.	p > t	95% CI	Predicted	St. Err.	p > t	95% CI
	Probability				Probability			
Q1	0.846	0.026	0.000	[0.795 0.897]	0.694	0.053	0.000	[0.591 0.798]
Q2	0.860	0.024	0.000	[0.813 0.906]	0.675	0.052	0.000	[0.572 0.778]
Q3	0.872	0.022	0.000	[0.829 0.916]	0.648	0.054	0.000	[0.553 0.754]
Q4	0.867	0.023	0.000	[0.822 0.913]	0.658	0.054	0.000	[0.553 0.764]
Q5	0.874	0.023	0.000	[0.829 0.918]	0.612	0.057	0.000	[0.499 0.724]

Table 2: Predicted probabilities of Willingness to Fight="yes" based on Column 5 in Table 1

Notes: This table reports estimates for male respondents (predicted probabilities for the full sample are reported in the Appendix). We calculate predicted probabilities using the –mimrgns- command in Stata (Klein, 2014), setting net Gini at its minimum (low inequality) and at its maximum (high inequality), keeping the other variables at their real values.

There are statistically significant (95%) differences between Quintile 1 and Quintile 5 in low inequality ($0.846 \neq 0.874$, p=0.000) and in high inequality ($0.694 \neq 0.612$, p=0.008).

Figure 2: Predicted probabilities plot



Predicted probabilities based on estimates in Column (5) in Table 2 (male respondents only, controlling for individual- and time-varying country-level factors, survey wave and country fixed effects, and adjusting standard errors for clustering). For each income quintile, the plot presents predicted probabilities of "yes", and their 95% confidence interval, for low and high levels of inequality (net Gini set at minimum and at maximum, respectively).

There is a statistically-significant difference between low and high inequality. Even for quintile 1, where the confidence intervals overlap, the point estimate is statistically significant (p=0.51).

In our interpretation of the predicted probabilities, we focus on comparing quintile 1 and quintile 5 (the bottom 20 per cent and the top 20 per cent, respectively). Four results emerge: (1) high inequality is associated with a lower probability of an affirmative answer in all income quintiles. (2) in low inequality, the probability of "yes" is increasing modestly in income, whereas in high inequality it is decreasing in income. When inequality is low, the predicted probability of "yes" among poor male respondents is 0.846, and it is 0.873 among wealthy male respondents (p=0.000). When inequality is high, the probability that a poor male respondent replies affirmatively is 0.694, and it is 0.612 for a wealthy male respondent (p=0.008). (3) The substantive difference in the probability of an affirmative answer between Quintile 1 and Quintile 5 is bigger when income inequality is high than when it is low (consistent with Hypotheses 3 and 4). When inequality is low, the poor are only 2.8 percentage points less likely to answer "yes" than the wealthy, and when inequality is high, they are 8.2 percentage points more likely to reply "yes" than wealthy respondents. Finally, (4) the change among the rich is greater than the change among the poor when we move from low to high inequality.⁴²

In sum, our findings suggest that willingness to fight is decreasing in inequality; that it does not have a direct relationship to individual income; that the rich are less willing to fight for their country than the poor when income inequality is high, and that the rich are slightly more willing to fight than the poor when inequality is low, though the

 $^{^{42}}$ We look at the difference between willingness to fight in low and high inequality among the poor and the rich, and calculate the difference-in-difference: 0.846-0.694=0.152 (the difference between poor in low and high inequality) and 0.873-0.612=0.216 (the difference between rich in low and high inequality). The difference-in-difference is 0.216-0.152=0.064. This difference is statistically significant (p<0.000), suggesting that the bigger change that we observe among the rich is not likely to be accidental.

differences are small; that the substantive differences between the willingness to fight of the poor and the rich are bigger when inequality is high; and that the changes between low and high inequality are more pronounced among the rich.

Robustness Checks

We conduct several robustness checks to assess whether our main findings hold when we use alternative measurements of inequality, and restrict our sample. The regression tables and the predicted probabilities are in the Appendix. Overall, these checks show that our results are robust to using alternative measures of inequality (LIS Gini index and relative redistribution rather than Gini). We also show that outliers do not affect our findings—the results hold when we drop various outliers. Finally—our results become substantively stronger when we restrict our sample to young males aged 18-45 who reside in democratic countries.

Explaining Our Findings

What accounts for our findings? In the discussion above, we outline four potential reasons for an interactive effect of income and inequality on willingness to fight. We now discuss which theory is more consistent with our data.

The first proposed explanation is that the poor become more nationalistic when inequality is high, making them more willing to fight than the rich.⁴³ We use the WVS question on how proud respondents are of their nationality to test this hypothesis.⁴⁴ Column 1 in Table 3 presents the linear predictions of nationalistic attitudes. The data

⁴³ Shayo 2009.

⁴⁴ The question asks how proud the respondent is to be a member of their nationality. Responses range from
1 (very proud) to 4 (not proud at all). We reverse the scale such that higher numbers correspond to higher
levels of pride, and rescale the responses between 0 and 1. We use an OLS model.

suggest that there are no statistically-significant differences between the poor and the rich, and that respondents from high-inequality countries express greater pride in their nationality than respondents from countries with low inequality. Thus, nationalistic sentiments cannot account for the differences between the rich and the poor, and for the finding that respondents from high inequality countries are less willing to fight.

Table 3: Alternative explanations for the findings

		(1)	(2)	(3)
Inequality	Income	Proud of	War necessary to	War likely
	quintile	nationality	achieve justice	
	Q1	0.806 (0.017)	0.300 (0.034)	0.675 (0.029)
		[0.774 0.839]	[0.233 0.367]	[0.618 0.731]
	Q2	0.809 (0.017)	0.365 (0.037)	0.561 (0.024)
		[0.776 0.841]	[0.292 0.438]	[0.514 0.608]
Low	Q3	0.827 (0.017)	0.367 (0.036)	0.550 (0.025)
		[0.795 0.860]	[0.296 0.437]	[0.501 0.599]
	Q4	0.824 (0.017)	0.406 (0.044)	0.515 (0.028)
		[0.790 0.858]	[0.319 0.493]	[0.461 0.570]
	Q5	0.818 (0.019)	0.488 (0.054)	0.530 (0.044)
		[0.781 0.855]	[0.383 0.594]	[0.443 0.617]
	Q1	0.856 (0.020)	0.390 (0.048)	0.689 (0.034)
		[0.817 0.895]	[0.296 0.483]	[0.623 0.755]
	Q2	0.834 (0.020)	0.347 (0.042)	0.705 (0.030)
		[0.794 0.873]	[0.264 0.430]	[0.646 0.764]
High	Q3	0.833 (0.020)	0.372 (0.043)	0.677 (0.031)
		[0.794 0.873]	[0.287 0.457]	[0.616 0.738]
	Q4	0.831 (0.021)	0.397 (0.057)	0.700 (0.035)
		[0.790 0.872)	[0.286 0.508]	[0.630 0.769]
	Q5	0.831 (0.024)	0.389 (0.070)	0.621 (0.053)
		[0.784 0.879]	[0.251 0.527]	[0.517 0.725]
N (countries)		113,941 (83)	29,950 (42)	30,608 (52)

Notes: This table reports predictions based on OLS models (Columns 1, 3) and a probit model (Column 2), with standard errors adjusted for within country clustering in parentheses, and 95% confidence intervals in square brackets. These results use male respondents only. All regressions include individual- and time-varying country-level factors. Column 1 includes country and survey fixed effects. Additional information about these tests and regression tables are in the Append

According to the second proposed mechanism, high inequality makes it more attractive for the rich to buy themselves out of service, and thus reduces their willingness to fight. When income disparities are greater, the income of the poor falls even lower than the average income, thereby making it cheaper for the rich to mobilize the poor.⁴⁵ Since mobilization costs affect both the poor and the rich, this view implies that when inequality changes from low to high, the predicted probability of willingness to fight should rise among the poor by a similar order of magnitude as it falls among the rich. This is not precisely what we find. In the difference-in-difference calculation above (see footnote 42), we show that the drop in the predicted probability of willingness to fight among the rich is greater than its rise among the poor. However, the mobilization cost explanation still holds among the rich. At the same time, it remains to be examined why the mobilization costs' drop has a smaller effect on willingness to fight among the rich.

According to the third explanation, the rich may be less willing to fight when inequality is high because they anticipate that progressive taxation will increase in the aftermath of a war.⁴⁶ This anticipated capital contribution makes them feel less obligated to contribute their labor. Based on the difference-in-difference calculations described above (footnote 42), this explanation is consistent with our data because it would explain why higher inequality has a stronger impact on the rich than on the poor. To further examine this explanation, we return to the WVS. One WVS question asks respondents whether, under some conditions, war is necessary to obtain justice. If the rich are less

⁴⁵ Esteban and Ray 2011; Kuhn and Weidmann 2015.

⁴⁶ Scheve and Stasavage 2010.

willing to fight for their country because of post-war redistribution concerns, then we expect the rich in countries with high inequality to be less likely to respond affirmatively to this question, compared to their poorer compatriots. This logic also implies that when inequality is low, there should not be a significant difference between people in different economic strata with respect to their views on the necessity of war. In fact, that is not the picture that emerges from column 2 in Table 3. Rather, when inequality is high, there is no statistically significant difference between the rich and the poor with respect to their view on the necessity of war (the difference between 0.390 and 0.389 is not statistically significant, p>0.1). However, when inequality is low, better-off respondents are more likely to agree that war may be necessary (the difference between 0.300 and 0.488 is statistically significant, p<0.01). These findings cannot be explained by taxation concerns, but can be accounted for by the mobilization costs explanation.⁴⁷

Finally, Caverley's theory⁴⁸ implies that the poor in high-inequality democracies may be more willing to fight because capital-intensive militaries shield them from many risks of war, and the material costs of war are incurred by the rich. This view also implies that the poor in these countries should be more supportive of war in general. The results in column 2 are not consistent with this view, and thus we conclude that it cannot account for our findings.⁴⁹

⁴⁷ The mobilization costs explanation implies that lower inequality makes it less attractive for the poor to join up. This can explain why the rich are more likely than the poor to agree that war may be necessary when inequality is low.

⁴⁸ Caverley 2014.

⁴⁹ When inequality is high, there is no statistically significant difference between the poor and the rich; and when inequality is low, the rich are more likely to say that war may be necessary to obtain justice.

In sum, our analysis suggests that the patterns that we identify with respect to willingness to fight are consistent with explanations that emphasize material considerations, especially for the rich in high-inequality countries. That said, mobilization costs do not make the poor in high-inequality countries more willing to fight than the poor in low-inequality countries. We also conclude that our data are not consistent with several other explanations that highlight the role of nationalism, redistribution concerns, or greater willingness to support military policies on the part of the poor.

Conclusions

We examine the joint role played by individual income and country-level inequality in shaping people's willingness to take up arms for their country using representative national surveys alongside country-level data for dozens of countries over more than three decades.

At the theoretical level, our work extends previous research on the determinants of individual willingness to fight for one's country by connecting economic disparities with attitudes about wartime behavior. The first and perhaps most significant theoretical contribution of this research is the finding that the association between willingness to fight and respondents' income depends on country-level income inequality. We find that people are less willing to fight for their country when income asymmetries are greater, while individual income does not have a robust relationship with willingness to fight. Additionally, we show that, as the distribution of income becomes more unequal, the rich become less willing to fight. We also find that substantive differences in willingness to fight between people at the opposite ends of the economic spectrum are greater when

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inequality is high. This pattern of findings extends Inglehart, Puranen, and Welzel's notion of life opportunities,⁵⁰ in that the better life opportunities that exist in lowinequality countries are consistent with our finding that there is no difference between the poor and the rich in their willingness to fight when inequality is low. This means that low inequality—which is part of the "life opportunities" index in Ingelhart, Puranen, and Welzel—moderates the effect of individual income on the willingness to fight for one's country—especially among your males in low inequality democratic countries. Conversely, when inequality is high, individual income makes a difference, with poorer people more willing to fight.

Importantly, our analysis shows that the effect of inequality is stronger among the rich than among the poor (note the growing gap between low and high inequality in Figure 2 as income increases). Our explanation for this result is that inequality makes it cheaper to mobilize the poor, and thus reduces the willingness of the rich to fight. Poorer citizens, for their part, are insensitive to levels of income inequality. This may partially be explained by the fact that mobilization can be a route to relative upward mobility. In effect, by serving their country, low-income individuals gain status and recognition. Overall, our findings are consistent with explanations that stress material incentives and a cost-benefit approach, especially among wealthier citizens. We also present evidence that our results cannot be fully explained by several alternative approaches.

Consistent with previous research, age, gender, and marital status have significant effects on willingness to fight, with greater willingness to fight among younger citizens, men, and married individuals. Religious affiliation, too, has a positive effect on

⁵⁰ Ingelhart et al.'s (2015).

willingness to fight in times of war. There is also no correlation between education and willingness to fight (in fact, the relationship is not monotonic).⁵¹ In line with other emerging work pursued in the field of willingness to fight,⁵² we found that attitudinal constructs, such as confidence in the government and armed forces and pride of nationality, significantly influence individuals' willingness to go to war. Likewise, crossnational differences in countries' history of military conflict also exert significant effects on individuals' willingness to fight,⁵³ such that the publics of Germany and Japan report low rates of willingness to fight.⁵⁴ There is also a slightly higher percentage of those willing to fight in countries with conscription.⁵⁵ Yet the substantive results of our analyses of six cumulative waves (1981-2013) of the World Value Survey for more than 90 countries remained the same: the poor are slightly less likely to respond affirmatively than the rich when inequality is low, and they are more likely to respond affirmatively than the rich when inequality is high.

It should be noted that our main results hold when we restrict our sample to males in democracies. In non-democracies, there are no statistically significant differences between poorer and wealthier respondents. This makes sense if willingness to fight is driven by future expectation of benefits, in that such benefits are less likely in nondemocracies. This finding is consistent with Inglehart, Puranen, and Welzel's notion of life opportunities.

⁵¹ Inglehart et al. 2015; Puranen 2014.

⁵² Díez-Nicolás 2009; Puranen 2014; Torgler 2003.

⁵³ Alderman 2015; Braw 2015; Pazes et al. 2007.

⁵⁴ Inglehart et al. 2015.

⁵⁵ Horowitz and Levendusky 2011.

Our findings also have an important normative implication, in that greater income inequality may be associated with unequally shared burdens when it comes to the provision of labor for war efforts. If our findings are reflected in people's actual behavior, the inescapable conclusion is that inequality begets less shared sacrifice.

These results speak to a variety of challenges that states must confront in defending themselves or their interests in the face of growing inequality, especially in an age when the military is increasingly high-tech, and therefore reliant on better-educated, highly skilled soldiers (who tend to come from better-off backgrounds). As those who are well-off become more apathetic, the ability of states to maintain a modern and well-prepared military may be undermined. Moreover, while wealthier citizens may be less likely to serve, they nonetheless make up the majority of those in positions of power – those who ultimately make decisions on when and where to go to war.

All in all, while much attention has been placed on the need to address growing income inequality, the focus is often on the economic consequences of inequality for those with less – and their implications for health care, education, and other aspects of public welfare and civil life. The results of this paper suggest that states should be attuned to the possibility that greater income inequality also results in an increasingly asymmetric distribution of risk within society, by influencing decision-making on the part of the rich when it comes to who goes to war.

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