PUBLIC FINANCE AND INDIVIDUAL PREFERENCES OVER GLOBALIZATION STRATEGIES

GORDON H. HANSON, KENNETH SCHEVE,* AND MATTHEW J. SLAUGHTER

Do preferences toward globalization strategies vary across public-finance regimes? In this paper, we use data on individual preferences toward immigration and trade policy to examine how pre-tax and post-tax cleavages differ across globalization strategies and state fiscal jurisdictions. High exposure to immigrant fiscal pressures reduces support for freer immigration among U.S. natives, especially the more skilled. The magnitude of this post-tax fiscal cleavage is comparable to the pre-tax labor-market effects of skill itself. There is no public-finance variation in opinion over trade policy, consistent with U.S. trade policy having negligible fiscal-policy impacts. Public finance thus appears to shape opinions toward globalization strategies.

1. INTRODUCTION

INTERNATIONAL ECONOMIC policies that regulate the flow of goods, capital, and labor across borders vary substantially not only across countries and over time but also within these different dimensions of integration with the world economy. One of the major puzzles in political economy is why so many countries appear to adopt relatively liberal trade policies but relatively illiberal immigration regulations. Trade and immigration liberalization both have the potential to improve a country's economic welfare through efficiency gains. Because international flows of goods and labor both work to integrate national labor markets with the global economy, these policies often have similar effects on worker outcomes in the labor market, leading many scholars to view the distributional consequences of liberalization to be quite similar as well.

Absent a simple efficiency or distributional explanation, most existing scholarship turns to important non-economic differences between trade and immigration policy. Most obviously, negative voter attitudes toward foreign cultures and minority groups may be more influential for immigration than trade, leading to relatively more public support for liberal trade policies.

In this paper, we develop an alternative argument: government policies that redistribute income alter the distributional politics over trade and immigration policy and often favor trade as opposed to immigration as a strategy for international economic integration. In short, we argue that

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public finance considerations can have a major impact on who supports liberalization and what kind of liberalization is favored.

Freer trade and immigration can affect government fiscal activity by comparable amounts, through their similar impacts on labor demand and thus pre-tax labor income. But there may be important fiscal differences between the two. Perhaps most crucially, immigrants may pay taxes, may receive public services, and may vote over tax and spending choices. Imports, obviously, do none of these things. This suggests that quite different political coalitions may organize around trade and immigration because of different public-finance considerations, making globalization cleavages more fractious than they might otherwise appear.

Consider the example of the United States. What are the labor-market impacts of freer trade and immigration? The U.S. comparative advantage in many skill-intensive products means that freer trade is likely to lower the pre-tax earnings of less-skilled natives relative to more-skilled natives via the Stolper–Samuelson process (Stolper and Samuelson, 1941). For some time now, less-skilled individuals have comprised a large share of U.S. immigrants. In 2000, 31% of foreign-born adults in the United States had ≤12 years of education, compared with only 13% of native-born adults. Because low-skilled and high-skilled labor tend to be complements, freer immigration is likely to alter pre-tax earnings of natives like trade does. There is now abundant evidence that freer trade and immigration have in fact generated these pre-tax wage pressures.1

But do trade and immigration generate any post-tax impacts through fiscal channels? Freer trade might shift economic activity and thus tax revenue across different states, with labor-market churning in the process. But the magnitude of additional fiscal costs from this adjustment in countries like the United States is likely to be modest, given the limited extent of programs for labor-market adjustment and that trade, unlike immigration, does not change the potential pool of those receiving public assistance. For example, the only U.S. outlay explicitly linked to trade liberalization, Trade Adjustment Assistance (TAA), has recently cost <$300 million a year – about 0.01% of total federal spending in fiscal 2004. Revenue effects from trade liberalization are also likely to be relatively small: the U.S. Constitution prohibits states from taxing trade, and at the federal level trade taxes have recently constituted <1% of total federal revenue.2

But in many U.S. states, immigrants have access to public assistance financed by taxes. Indeed, there is abundant evidence that immigrants make greater use of means-tested welfare programs than do natives. Freer immigration may thus increase the net tax burden on U.S. natives and thus

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1 For surveys on trade, see Feenstra (2000) and Feenstra and Hanson (2003). For important migration studies, see Borjas et al. (1997), Card (2001), and Borjas (2003).

tend to lower their post-tax income. Progressive tax regimes are common in the United States, which means that this fiscal burden may especially hit higher income and more-skilled natives. All this suggests that freer immigration is likely to be evaluated by natives for not just its labor-market impacts but its fiscal impacts as well.3

To make these fiscal concerns concrete, consider the recent experiences of California and Texas. In the mid-1990s, both states had fiscally conservative governors who were rising stars in the Republican party. Pete Wilson and George Bush each faced difficult fiscal environments, as their states had been hit hard by the recession of 1990–1991. California and Texas were also absorbing the brunt of the rising national surge of immigration. During the 1990s, as the foreign-born share of the U.S. population grew from 7.9% to 11.1%, 37.3% of immigrants chose to reside in one of the two states (vs. just 17.4% of natives).

That many new immigrants were poor and relatively likely to receive public assistance created the perception that native taxpayers in the two states were bearing most of the fiscal costs associated with immigration. The data clearly supported this perception. Smith and Edmonston (1997) calculated that in California over 1994–1995 immigrant households received an average fiscal transfer of $3,463, or 9.1% of average immigrant household income, which generated an average fiscal cost to native households of $1,178, or 2.3% of average native household income.

Bush and Wilson appeared to have similar politics. Among other issues, they were both unabashed free traders who strongly supported the North American Free Trade Agreement. Yet, they adopted very different approaches toward immigration. In California, Wilson made restricting public benefits to immigrants the centerpiece of his strategy to control spending. Memorably, he backed Proposition 187, a ballot measure to deny public services to illegal immigrants. In Texas, Bush embraced the state’s immigrant population and courted the Latino vote, saying he would not support a measure like Proposition 187 in Texas.

This tale of two states suggests that fiscal policies shape voter attitudes toward immigration.4 High-income voters are important Republican constituents in both states. In California, which funds generous public benefits with progressive income taxes, high-income voters may worry that immigration raises their tax burden. This was one source of pressure on Wilson to reduce fiscal transfers to immigrants.5 Texas, in contrast, has a weaker

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3On immigrant welfare take-up, see Borjas and Hilton (1996), Borjas (1999a, 1999b), Fix and Passel (1999), Zimmermann and Tumlin (1999), and Fix and Passel (2002).

4As shown in Figure 4, there is substantial variation across states in their generosity toward either immigrants or natives. This variation reflects the differences in the public benefits provided by states, which became more pronounced after welfare reform in 1996 granted states greater discretion in setting welfare policies. See Zimmermann and Tumlin (1999).

safety net and no state income tax. Its high-income voters may perceive immigration as having a small impact on their tax obligations, which may have given Bush greater latitude in how to address the issue.\textsuperscript{6}

In this paper, we examine how fiscal policy may shape individual preferences toward different globalization strategies. We first develop a simple framework of voter preferences, to see how pre- and post-tax cleavages may differ between trade and immigration and also across jurisdictions. Absent distortionary tax and spending policies, standard trade theory predicts that, in any country, freer immigration and trade will be supported by relatively abundant workers and opposed by relatively scarce workers. For many countries, there is now abundant evidence of this.\textsuperscript{7} But fiscal policies that redistribute income, which have largely been ignored by the literature, alter the distributional politics.\textsuperscript{8} The fiscal impact of globalization policies may be positive or negative across different settings and for different constituencies. At the most general level, our argument is that fiscal considerations affect the distributive politics of globalization policy-making. Our theoretical framework clarifies the pre- and post-tax pressures on individual economic welfare from various globalization policies with specific attention to the issues likely to be quantitatively important for our empirical application.

We then apply this framework to the case of individual immigration and trade preferences across U.S. states over the 1990s. For at least two important reasons, this is an especially rich empirical setting. One is the ample evidence for the United States cited above to support both labor concerns that immigration changes wages and fiscal concerns that it raises native tax burdens. The other is that U.S. states vary greatly in the size of their immigration inflows, the generosity of their public benefits, and the progressivity of their tax structures. This variation suggests that natives in some states will be especially “exposed” to immigrant fiscal burdens.

Our empirical work combines data from multiple sources. What results is an individual-level dataset with which we can apply our theoretical framework to examine how individual attitudes toward immigration and trade are shaped by important forces including individual labor-market skills and state immigration and fiscal regimes. We exploit variation both across states and over time in fiscal exposure to immigration, such as the fact that some high-immigrant states offer generous public assistance while others do not. Moreover, our data allow us to control for a wide array of individual

\textsuperscript{6}In particular, Texas fiscal policies may have allowed Bush the political space to appear both pro-immigrant, to appeal to the Latino vote, and fiscally conservative, to appeal to the party base. See “Yo te quiero mucho,” \textit{Economist}, September 28th, 2000.


\textsuperscript{8}See Fetzer (2000) and Dustmann and Preston (2004b) for two exceptions that consider the impact of fiscal issues on attitudes about immigration.
characteristics and political attitudes that have been demonstrated to have a
strong correlation with opinions about trade and especially immigration.

We have two main findings. First, high exposure to immigrant fiscal
pressures reduces support for freer immigration among natives, especially
the more skilled. The magnitude of this post-tax fiscal cleavage is compar-
able to the pre-tax labor-market effects of skill itself. Second, there is no
public-finance variation in opinion over trade policy, consistent with the
data that U.S. trade policy has negligible fiscal-policy impacts. The overall
message is that public-finance concerns appear to be crucial in shaping
opinions toward alternative globalization strategies.

Our paper has five additional sections. In section 2, we develop our
theoretical framework. Section 3 presents our data and some motivating
summary statistics. In section 4, we discuss our econometric specifications,
and in section 5 we report estimation results. Section 6 concludes.

2. THEORETICAL FRAMEWORK: THE WELFARE CONSEQUENCES OF
IMMIGRATION AND TRADE

In this section, we develop a framework of voter preferences to examine how
pre-tax and post-tax cleavages may differ for trade and immigration and also
across jurisdictions. For clarity, we focus on voter preferences based on just
individual economic welfare. As stated in the introduction, there are many
important non-economic determinants of attitudes toward globalization.
These will be an essential part of our empirical analysis.

Let \( V(p, I) \) be the indirect utility enjoyed by individual \( i \), which depends
on the vector of prices for consumption goods and services, \( p \), and also on
after-tax income available for consumption, \( I \). In turn, after-tax income
depends on the pre-tax wage income, \( y_i \); the effective income tax rate, \( t_i \); and
government transfers \( g_i \).

\[
I_i = y_i(1 - t_i) + g_i.
\]

(1)

Tax rates and government transfers vary across individuals by both state of
residence and level of income. Equation (1) assumes both that all income is
from labor earnings, and that only labor earnings are taxed. Neither
assumption is essential, but they simplify the presentation.

Together, these assumptions imply that an individual’s economic well-
being can be expressed as \( V(p, y_i + g_i - y_i t_i) \). Thus, wellbeing can be
thought of as depending on three separate terms: prices, \( p \), pre-tax income,
\( y_i \), and the post-tax net fiscal transfer, \( (g_i - y_i t_i) \). It is useful to consider the
impact of freer immigration or trade on each of these terms separately.

2.1 Impacts on Prices

If immigration lowers some of the prices in \( p \) at which goods and services are
available in a state, its residents are better off. This may be particularly true
for non-tradables that use intensively immigrant labor services. As is well known, freer trade can also alter relative prices, with higher prices for comparative-advantage goods and services.

2.2 Impacts on Pre-Tax Labor Income

Next, consider the change in pre-tax labor income, $y_i$, from freer immigration or trade. If immigration increases the relative supply of low-skilled labor, then this income is likely to rise for high-skilled individuals and fall for low-skilled individuals. We expect the opposite impacts if immigrants are predominantly more skilled. These wage impacts could be national or local in scope, depending on the extent of labor-market integration across states. And they could even be zero if immigrants are absorbed via mechanisms other than wage changes.9

Trade liberalization can also alter individual welfare through (nominal) pre-tax labor income. Indeed, the net impact of this channel plus the commodity-price channel on real labor income is the focus of the Stolper–Samuelson theorem, a well-known mechanism of standard Heckscher–Ohlin trade theory. Here, the net impact on real pre-tax earnings varies along factor lines, not industry lines, thanks to sufficient interindustry factor mobility. Impacts on pre-tax income would be different with relatively immobile factors of production.

2.3 Impacts on Post-Tax Net Fiscal Transfer

The third channel to consider is the change in the net fiscal transfer received by individual $i$. In countries like the United States, this net fiscal transfer, $(g_i - y_i t_i)$, contains state and federal components. We assume that the federal component can be expressed as a reduced-form function of individual characteristics (e.g. age, income, family size). The state component of net fiscal transfers will depend on the interaction of individual characteristics, as summarized by $y_i$, and state tax and spending policies, as summarized by $t_i$ and $g_i$.

Consider first how immigration will change net fiscal transfers received by natives. For the U.S. case, as stated in the introduction, there is now abundant evidence that immigrants make greater use of means-tested welfare programs than do natives. Accordingly, we assume that the arrival of immigrants to a state raises demand and, given eligibility rules, cost for its welfare services. In principle, states can meet this higher immigrant-related cost in one of three ways: borrow, reduce other transfers, or raise tax revenue. In practice, for most U.S. states, borrowing is not an option: all but Vermont self-impose constitutional or statutory balanced-budget requirements. We

9For evidence on national vs. local wage impacts of immigration, see Borjas et al. (1997), Card (2001), Borjas (2003), and Hanson and Slaughter (2002).
therefore assume that states meet higher immigrant welfare costs by a combination of reduced government transfers to and increased taxation of natives. So, with higher immigration, natives suffer a decline in \((g_i - y_i t_i)\) because of lower \(g_i\) and/or higher \(t_i\).

The exact fiscal impact on each native in each state will depend on individual characteristics, predominantly income. It will also depend on state characteristics: the nature of state fiscal policy in terms of progressivity and welfare generosity, and the magnitude of the state’s total immigrant inflow. We expect natives to experience larger falls in net fiscal transfers when living in states with larger immigrant inflows and/or generous welfare programs. For states that use more progressive tax and spending systems, we also expect the declines in net fiscal transfers to fall disproportionately on more skilled natives.

Now consider the fiscal impacts of freer trade. Like freer immigration, freer trade can alter \((g_i - y_i t_i)\) via pre-tax changes in \(y_i\). Unlike freer immigration, however, freer trade does not bring about a change in the population and thus changes in welfare take-up that must be accommodated by changes in the net fiscal transfers to natives. It is true that trade might increase churning in the labor market as workers and firms adjust to changes in relative prices. But the magnitude of additional fiscal costs from this adjustment in countries like the United States is likely to be modest, given the limited extent of state and federal programs for labor-market adjustment.\(^{10}\) We conclude that freer trade generally does not generate the same fiscal pressures as immigration, and certainly does not do so in countries with minimal trade taxes and minimal labor-market policies.\(^{11}\)

2.4 Summary of Theoretical Framework

Freer immigration and trade can affect individual economic welfare and thus policy preferences through product prices, pre-tax labor income, and post-tax net fiscal transfers. Research to date has largely ignored this third channel. Our framework clarifies that for immigration, this channel is likely important, but that for trade its relevance depends on whether trade and fiscal policies are explicitly linked, which is not the case in the United States.

Our framework generates a number of testable predictions. The pre-tax labor-income pressures from both immigration and trade are likely to cleave

\(^{10}\)An alternative argument may be that a generous tax and transfer system that provides more insurance to workers reduces opposition to liberalization. For cross-country evidence consistent with this idea, see Hays et al. (2005) and Scheve and Slaughter (2006). This effect may be relevant in settings in which borrowing is allowed or for which the incidence of taxes paying for the insurance is not clear – settings unlike the U.S. states. Or this effect may especially apply to less-skilled individuals at greater risk from liberalization but less likely to pay the costs. Our empirical work investigates the possibility of this alternative.

\(^{11}\)Today, in many countries, trade taxes constitute a small share of total government revenue. This is not true for many non-OECD countries, and was not true for almost all of today’s advanced countries in earlier centuries. See United States Trade Representative (2003).
across skill groups within all jurisdictions. But for immigration there should also be after-tax fiscal pressures that vary with state fiscal regime and skill type. Natives in states who are fiscally exposed to immigration, thanks to a combination of high immigrant inflows and/or generous welfare programs, should be less supportive of immigration than natives in less-exposed states. To the extent that states rely on progressive tax-and-spending regimes, this reduced support for freer immigration should be especially strong among higher income and more-skilled natives.

3. DATA AND SUMMARY STATISTICS

The data for our analysis come from three sources. Individual attitudes on immigration and trade come from the 1992 and 2000 American National Election Studies (NES; Sapiro et al., 1998), which are extensive surveys of current political opinions based on an individual-level, stratified random sample of the U.S. population. We select these two NES years to best match our data from the 1990 and 2000 U.S. Censuses of Population and Housing, from which we obtain data on immigrant and native populations, labor forces, and use of public assistance, and also to allow for significant temporal variation in these characteristics. Finally, data on state fiscal policies come from the U.S. Censuses of Governments.

3.1 Fiscal Impact of Immigrant Populations in U.S. States

We begin our data discussion by showing that the fiscal impact of immigration varies significantly across U.S. states. States vary both in their exposure to immigration and in their generosity of public assistance. In summarizing immigration patterns across U.S. states, we take households (rather than individuals) as the unit of analysis. Households are the units on which government agencies assess income taxes, property taxes, and other levies. For determining individual eligibility for means-tested benefit programs, it is typically household characteristics that are evaluated (Zimmermann and Tumlin, 1999). An immigrant household is defined as one whose head is foreign born. Importantly, this definition of the immigrant population includes U.S.-born children of immigrants.

It is now well documented that within the United States the immigrant population is geographically concentrated. For the nation as a whole, the share of the population living in immigrant-headed households was 16.5% in 2000, up from 11.5% in 1990. For 2000, the immigrant population share was between 30% and 40% in two states (California, New York), and it was above the national share in just 11 other states.\(^\text{13}\)

\(^{12}\) Although the NES conducted a study in 1990, the survey instrument does not include an immigration policy question.

\(^{13}\) These 11 states are New Jersey, Hawaii, Florida, Nevada, Texas, Connecticut, Massachusetts, Arizona, Rhode Island, Illinois, and District of Columbia.
As Figure 1 shows, California and New York have long been immigrant havens. However, the immigrant population has been growing most rapidly in states that traditionally have not been immigrant gateway locations. In Figure 2, states with the most rapid immigrant population growth over the 1990s (North Carolina, Georgia, Arkansas, Nebraska, Colorado, Utah) had relatively small immigrant populations in 1990. Other states with rapidly growing immigrant populations (Nevada, Colorado, Utah, Oregon, Arizona) had moderate immigrant populations in 1990. These two groups of states had rapid job growth during the 1990s. And, with the exception of Oregon, these states are not known for the generosity of their welfare programs.

The fiscal impact of immigrants is, however, only partially related to the size of immigrant flows. Depending on both immigrants’ characteristics and state policies, immigrants may or may not access public assistance or consume other public services and may or may not pay taxes. The extent of fiscal transfers from natives to immigrants depends on these factors as well.

Individuals use public services in many forms, including public safety (fire and police protection), public spaces (parks and recreation facilities), public education, public healthcare, and public assistance (welfare). For immigrants, it is access to public assistance that is perhaps the most controversial. The Census of Population and Housing collects information on cash assistance in the form of supplemental security income, aid for families with dependent children (which has become temporary assistance for needy...
families), and general assistance. This is only a partial list of means-tested entitlement programs, and it excludes non-cash benefits such as food stamps, Medicaid, public housing, and energy subsidies. In contrast, the Census of Governments data discussed below measure both cash and non-cash benefits.

Figures 3a and 3b plot the fraction of immigrant and native households that received cash public assistance in 1990 and 2000. The likelihood that immigrants receive welfare varies widely across states. The states in which immigrants were most likely to receive benefits are mostly high-income states on the east and west coasts (California, New York, Massachusetts, Pennsylvania, Connecticut). In 1996, there was a major reform of federal U.S. welfare law, which imposed a lifetime cap on the number of years an individual could receive certain cash benefits and that excluded non-citizens from eligibility for many types of benefits. After 1996, many states at least partially replaced benefits at the state level that immigrants lost at the federal level, adding to the cross-state variation of public benefits available to immigrants.14

As discussed in section 2, an important requirement of our analysis below will be to measure accurately variation in natives’ potential fiscal exposure to immigrants across both states and years. Our measure would ideally account for the relative size of the immigrant and native populations as well as the

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14For evidence on this replacement, see Zimmermann and Tumlin (1999).
incidence and value of immigrant uptake of benefits. Figure 3 shows immigrant uptake incidence, but only for cash benefits and without any value information. The Census of Governments measures the annual value of both

Figure 3. (a) Share of households receiving public assistance, 1990. (b) Share of households receiving public assistance, 2000.
cash and non-cash benefits by state, but not broken out between immigrants and natives. However, Figure 3 shows a positive correlation between the fraction of native and immigrant households receiving public assistance (a statistically significant 0.24 in 2000, when weighted by state population), which suggests that welfare spending in total should be a reasonable proxy for welfare spending on immigrants only.

Accordingly, our first measure of potential fiscal exposure to immigrants, *Fiscal Exposure 1*, is a dichotomous indicator variable equal to one for state-years that meet two conditions: (1) that have relatively high welfare generosity, measured as above the national median welfare spending per native; and (2) that have relatively high immigrant populations defined as those states with a ratio of immigrants to natives above the mean state immigrant-native population ratio for working-age adults in 1990. Our welfare-spending measure from the Census of Governments includes a broad range of benefits, including cash and medical assistance.

An alternative measure of native fiscal exposure might use the immigrant uptake intensity in Figure 3 but scale it against all native households to measure the overall native tax base. The result is Figures 4a and 4b, which plot the number of immigrant households receiving cash benefits relative to the total number of native households against the ratio of immigrant to native households for 1990 and 2000, respectively.

Many states have both small immigrant populations and small numbers of immigrant households on welfare. Among high-immigration states, there is considerable variation in immigrant uptake of welfare. California and New York stand out as states with high immigrant welfare use. Among states with immigrant households equal to 10–20% of the number of native households in 1990, the ratio of welfare-receiving immigrant households to native households ranges from 0.005 in Nevada to over 0.02 in Massachusetts. Although the relative size of the immigrant population is comparable in these two states, in effect each native household in Massachusetts must support four times as many immigrant households on welfare as does each native household in Nevada.

This cross-state variation in the expected fiscal cost to natives of immigrant welfare use creates the potential for regional variation in public opinion about immigration policy – even among states with similar-sized immigrant populations. Accordingly, we construct our second measure, *Fiscal Exposure 2*, as a dichotomous indicator variable equal to one for

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15Our results are robust to raising or lowering this cutoff (equal to 0.12). In Figure 1, this cutoff identifies states that are spread out from the mass of states with low immigrant populations in both years. What matters for the empirical results is separating high-immigration from low-immigration states, which is achieved by a range of cutoff values. By categorizing states as being either high immigration or low immigration, we are implicitly assuming that the skill mix of immigrants across states is similar. In reality, there are important differences across states, which we have addressed in other work. See Hanson et al. (2005a).
Figure 4. Immigrant households receiving public assistance relative to native households.
state-years in which the ratio of immigrant households receiving cash forms of welfare relative to the total number of native households exceeds 0.012. This ratio that defines Fiscal Exposure 2 gauges the potential fiscal effects of immigrants on natives insofar as it incorporates both the incidence of immigrant cash welfare use and also the relative sizes of the immigrant and native populations. Relative to Fiscal Exposure 1, Fiscal Exposure 2 has the disadvantages of excluding non-cash benefits and also containing no measure of the value of welfare use. We thus prefer our first measure, but for robustness use both.

An advantage of using dichotomous measures of fiscal exposure to immigration is that it allows for non-linearities in how immigration’s fiscal costs affect individual preferences about immigration policy. In principle, we can allow for a high degree of non-linearity simply by including a sufficient number of categorical variables to describe the level of fiscal exposure. In practice, we find that the dichotomous measures we use appear to be sufficient to summarize the relationship between fiscal exposure and policy opinions.

3.2 Public Opinion About Globalization and State Generosity Toward Immigrants

The NES is an extensive survey of individual political opinions, including opinions about trade and immigration, based on a stratified random sample of the U.S. population. These surveys also report respondent characteristics including age, gender, educational attainment, and location of residence. To evaluate individual preferences toward immigration and trade, we use two questions from the NES. Regarding immigration, the NES asks

Do you think the number of immigrants from foreign countries who are permitted to come to the United States to live should be increased a little, increased a lot, decreased a little, decreased a lot, or left the same as it is now?

For the main analyses of immigration in the paper, we set the variable Immigrant Opinion equal to 1 for those individuals favoring immigration to be decreased slightly or considerably and 0 for those individuals favoring immigration to be maintained or increased. This question requires respondents to reveal their general position on the proper direction for U.S. immigration policy. In 2000, 44.8% of respondents favored decreasing

\[16\text{The threshold of 0.012 was selected based on Figure 4a. Along the } y\text{-axis of this graph, there is a substantial gap between Texas and the states above it separated by 0.012.}\]

\[17\text{Using the fully disaggregated coding of the responses to this question and changing our econometric specifications accordingly generates qualitatively similar results. We dichotomize this variable for ease of exposition and comparison with trade opinions.}\]

\[18\text{The question does not ask what skill-mix immigrants would have relative to the survey respondent or the native population as a whole. We assume that responses are informed by the}\]
immigration (15.0% slightly, 29.8% considerably), 44.5% favored leaving immigration unchanged, and 9.8% favored increasing immigration (5.8% by a little, 4.0% by a lot).

Regarding trade, the NES asks,

Some people have suggested placing new limits on foreign imports in order to protect American jobs. Others say that such limits would raise consumer prices and hurt American exports. Do you favor or oppose placing new limits on imports, or haven’t you thought much about this?19

We set the variable Trade Opinion equal to 1 for those individuals favoring protection and 0 for those opposing it. This question requires respondents to reveal their general position on U.S. trade policy. Note that the question does not ask what sector(s) would receive import restrictions. We assume that responses to the question are informed by the idea that import limits will be placed on comparative-disadvantage sectors. This seems more sensible than alternatives such as limits on comparative-advantage sectors. In 2000, 48.5% of respondents favored new restrictions on imports.

Our theoretical discussion in section 2 focused on two motivations for opposition to immigration and trade. One is the concern that immigration and trade put downward pressure on pre-tax wages for less-skilled workers. Our focus is on the second concern: that immigrant use of public services alters the net fiscal burden on native taxpayers. In states with high fiscal exposure to immigration, we expect natives to be less supportive of freer immigration than are natives elsewhere. To the extent that states rely on progressive tax-and-spending regimes, this reduced support should be especially strong among more skilled natives, for whom the negative fiscal effects of immigration on after-tax income work against the positive wage effects of immigration on pre-tax labor income. Recall that because U.S. trade policy does not have the same fiscal consequences as immigration, we do not expect support for trade policy to vary across states either by expected welfare costs of immigrants or even by alternative measures of fiscal exposure tailored to trade as opposed to immigration.

Our econometric estimation will examine both these motivations, as well as a host of other important non-economic factors that may affect an individual’s skills of actual U.S. immigrants in recent decades, which are relatively low and thus increase the relatively supply of less-skilled workers. The distribution of U.S. immigrants does include a substantial number of relatively skilled individuals. Nonetheless, the average U.S. immigrant is less skilled; we assume that this central tendency informs respondents’ answers to the question. 20

In 2000, the NES asked some respondents this question and some respondents a similar but not identical question that did not include the response option “Haven’t you thought much about this.” In the main trade results reported in Table 7, we include all respondents from the 2000 survey who answered either form of the question. The results are qualitatively the same if those respondents asked the experimental question are excluded from the analysis.

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stance on immigration, e.g. political beliefs and ethnicity. But before turning to these estimates, it is instructive to see whether simple summary statistics reveal patterns consistent with these two considerations.

The fraction of native-born individuals favoring new restrictions on immigration and trade in the 1992 and 2000 NES surveys varies strongly with educational attainment. Pooling both years, 54.1% of those without a high-school diploma favor new immigration restrictions, vs. just 38.6% of college graduates. Support for trade restrictions varies even more dramatically by skill type: 72.2% of individuals without a high-school diploma support further restrictions, compared with just 39.4% of college graduates. The most educated are the least opposed to immigration and trade, broadly consistent with the expectation that less-skilled natives have more restrictionist policy opinions due to labor-market competition.

Table 1 breaks down the overall skills cleavage in immigration opinions (for four standard levels of education: less than high school, high school, some college, and college graduates) according to whether an individual lives in a state for which the welfare costs of immigrants are expected to be high or low as measured by Fiscal Exposures 1 and 2. The key fiscal quantity of interest is the difference in opinions of similarly skilled respondents across states.

Table 1 shows that in states with high expected fiscal costs, 42–44% of college graduates have restrictionist immigration opinions, compared with only 36% in states with low expected costs. This differential is even larger for high-school dropouts, somewhere between nine and 16 percentage points. Both sets of differentials are statistically significant. These cross-state cleavages are broadly consistent with the idea from our theoretical framework that fiscal concerns reduce support for immigration among U.S. natives.

<table>
<thead>
<tr>
<th>Fiscal exposure measure</th>
<th>Fiscal exposure</th>
<th>No high school</th>
<th>High school</th>
<th>Some college</th>
<th>College graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal Exposure 1</td>
<td>Low</td>
<td>0.537</td>
<td>0.571</td>
<td>0.507</td>
<td>0.362</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>0.625</td>
<td>0.558</td>
<td>0.461</td>
<td>0.420</td>
</tr>
<tr>
<td>Fiscal Exposure 2</td>
<td>Low</td>
<td>0.498</td>
<td>0.572</td>
<td>0.516</td>
<td>0.361</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>0.658</td>
<td>0.557</td>
<td>0.464</td>
<td>0.435</td>
</tr>
</tbody>
</table>

Notes: Table 1 reports the fraction of native-born individuals reporting that they would prefer immigration to be decreased (by a little or by a lot) in the NES surveys for 1992 and 2000. States with high immigrant welfare costs have values of Fiscal Exposure 1 (or Fiscal Exposure 2) equal to 1. No high school refers to those with < 12 years of education, high school refers to those with 12 years of education, some college to those with 13–15 years of education, and college graduates to those with 16 or more years of education. Summary statistics are calculated using the NES sampling weights.
statistically significant differential exists for intermediate schooling groups (high-school graduates, some college). Based on theory, we would expect the policy preferences of individuals in these groups to be less affected by fiscal concerns. The patterns we uncover for immigration policy, however, do not generally hold for trade policy opinions whether fiscal exposure is measured in terms of the welfare costs of immigrants or more generally. Again, because U.S. trade policy does not have the same fiscal consequences as immigration, this is consistent with our framework.

4. EMPIRICAL SPECIFICATIONS

Our theoretical discussion highlighted three distinct channels through which immigration and trade are likely to affect an individual’s economic well-being: prices, pre-tax income, and post-tax net fiscal transfers. We build on this framework to specify reduced-form estimating equations for individual preferences regarding immigration and trade policy.

Let $I^{*}_{ist} \cdot (T^{*}_{ist})$ be a latent variable indicating opposition to immigration (trade) by a native individual $i$ living in state $s$ at time $t$. We model the determinants of $I^{*}_{ist} \cdot (T^{*}_{ist})$ as follows:

$$I^{*}_{ist} = a_0 + \beta_j 1(Educ_{istj}) + \gamma_k 1(Educ_{istik}) 1(Imm_{ist})$$

$$+ \lambda_k 1(Educ_{istik}) 1(FE_{ist}) + \theta X_{ist} + \delta Z_{ist} + \mu_{ist},$$

where $j$ is an index from 1 to 3; $k$ is an index from 1 to 4; $1(Educ_{istj})$ and $1(Educ_{istik})$ are a series of dichotomous variables indicating individual educational attainment; $1(Imm_{ist})$ is the dichotomous variable Immigration indicating whether the state in which the respondent lives is a high-immigration state; $1(FE_{ist})$ is a dichotomous variable, Fiscal Exposure 1 or 2, indicating whether the state in which the respondent lives faces a high level of fiscal exposure to immigration; $X$ is a vector of individual-level control variables, $Z$ is a vector of state-level control variables; $\alpha, \beta, \gamma, \lambda, \theta, \delta$ are parameters to be estimated; and $\mu_{ist}$ is a mean-zero random error term that reflects unobserved factors associated with individual preferences over changes in immigration or trade policy, including the impact of immigration or trade on the unobserved determinants of wage income and fiscal transfers.

The first term in this expression, $a_0$, is simply a constant. The second and third terms evaluate the pre-tax income channel for how immigration and trade affect economic wellbeing. The second term is indexed by $j$ because for $1(Educ_{istj})$, we include three indicator variables, High School, Some College, and College, with No High School as the omitted category. The third term is indexed by $k$ because we interact all four educational categories with the variable Immigration, indicating whether the respondent lives in a high-immigration state.
This parameterization provides a pre-tax labor-market interpretation of $\beta_{1\ldots3}$ and $\gamma_{1\ldots4}$. In the presence of low-skilled immigration, we expect opposition to immigration to be decreasing in respondent skill levels because of its effect on earnings across skills. Thus, the coefficient for College, $\beta_3$, should be less than zero, and perhaps the same will hold for Some College, $\beta_2$. If immigrants alter wages locally rather than nationally, then correlations between skills and opinion should be stronger in states with higher immigration levels. This implies that the coefficient on the interaction between No High School and Immigration, $\gamma_1$, should be greater than zero and/or that the coefficient on the interaction between College and Immigration, $\gamma_4$, should be less than zero (with analogous predictions for the other two education–immigration interactions). With the exception of the last point of local wage impacts, these same predictions apply to trade, insofar as freer trade expands the national effective supply of low-skilled labor.

The fourth term in equation (2), $l_k1(Educ_{istk})1(FE_{st})$, evaluates the main argument of this paper: that the consequences of immigration for post-tax net fiscal transfers have an important effect on individual economic well-being and thus policy opinions. We interact all four educational variables with our measures indicating whether the respondent’s state faces high fiscal exposure to immigration. Our theoretical discussion highlighted the impacts of immigration on net fiscal transfers across different income groups. But for our benchmark specifications, we use education to differentiate fiscal exposure across individuals. This is because income is well known to be poorly measured, non-randomly missing in surveys, and sensitive to transitory shocks (e.g. illness or bonuses) that do not reflect permanent income and thus fiscal status.

The parameters $\hat{\lambda}_{1\ldots4}$ indicate whether respondents with No High School, High School, Some College, and College in high fiscal-exposure states are more or less likely to oppose immigration. Our theoretical discussion suggests that respondents across all income/educational categories should be more opposed to immigration in states with high fiscal exposure to immigrants, and that this should be especially true for high-income/educated individuals due to the progressivity of state tax and transfer systems. We therefore expect the parameters $\hat{\lambda}_{1\ldots4}$ to be positive and increasing in magnitude. In principle, a similar effect might be observed for trade. But in practice, we do not expect opposition to trade to vary significantly with state fiscal status.

Note that because Immigration is interacted with all four education categories, it is not necessary to include Immigration by itself. This point also applies to Fiscal Exposures 1 and 2. Consistent with much of the labor-economics literature on wage impacts from immigration, this specification assumes local labor markets are delineated by states. Our key results demonstrating the importance of public-finance considerations for public opinion about immigration policy are robust to dropping the interactions between education and Immigration, which would be consistent with immigration having national and not state-level wage impacts.
fiscal exposure because of the small magnitudes of any likely fiscal effects of trade in the context of U.S. states.

Finally, the fifth and sixth terms in equation (2), $\theta X_{ist}$ and $\delta Z_{ist}$, estimate the effect of various individual-level and state-level control variables including Age, Age Squared, dichotomous indicator variables Female and Hispanic, State Unemployment, a year indicator variable for 2000, and in most specifications a full set of state fixed effects to account for time-invariant features of states that may influence individual attitudes toward immigration and trade. Some of these control variables account for the price channel, which depends on consumption patterns not measured in our data. Importantly, the controls may capture some non-economic influences on policy opinions. We will report results with many additional control variables that measure tolerance, isolationist sentiment, ideology, and partisanship, all of which more directly attempt to account for non-economic determinants of policy opinions.

In equation (2), the latent variable $I_{ist}^*(T_{ist}^*)$ is unobserved. Let $I_{ist}$, Immigration Opinion, ($I_{ist}$, Trade Opinion) be an indicator variable equal to one if an individual favors decreasing immigration (restricting trade) and zero otherwise, in which case $\Pr(I_{ist}^* > 0) = \Pr(I_{ist} = 1)$ or $\Pr(T_{ist}^* > 0) = \Pr(T_{ist} = 1)$. Assuming that the idiosyncratic component of individual preferences, $\mu_{ist}$, is normally distributed, then for immigration (analogously for trade), the following applies:

$$
\Pr(I_{ist} = 1) = \Phi(\alpha_0 + \beta_1 Edu_{istj} + \gamma_k Edu_{istk} + \eta k FE_{ist} + \theta X_{ist} + \delta Z_{ist}),
$$

where $\Phi(\cdot)$ is the standard normal cdf. We will estimate equation (3) as a probit, first on immigration and then on trade preferences, and report robust standard errors clustered on states. All estimations use NES data for native-born individuals pooled across 1992 and 2000. We focus on the subsample of natives to highlight the public-finance aspect of preference formation.

5. ESTIMATION RESULTS

5.1 Immigration-Policy Preferences

Table 2 reports our benchmark coefficient estimates of equation (3) for immigration preferences. Each specification includes the set of benchmark controls discussed in section 4, and we estimate specifications both without and with state fixed effects. We prefer including state effects because there are likely to be unobserved, unmeasured but time-constant features of states

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22 The interactions between educational attainment and whether the respondent lives in a high-immigration state may also control for the price channel because consumption patterns may vary by income and education and with the size of the local immigrant population.

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that both may influence support for immigrants and may also be correlated with our fiscal-exposure measures.

We first note that the results across all four specifications in Table 2 replicate the finding in the literature that more-skilled natives are less likely to support immigration restrictions. The coefficients on education alone indicate the relationship between education and immigration opinions for respondents in states for which immigration is low in both magnitude and expected fiscal effects. Here, opposition to immigration is the weakest among college graduates. The coefficient on College in Model I2 implies that college

<table>
<thead>
<tr>
<th>Table 2 Immigration-Policy Preferences, Benchmark Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td>High School</td>
</tr>
<tr>
<td>Some College</td>
</tr>
<tr>
<td>College</td>
</tr>
<tr>
<td>No High School × Immigration</td>
</tr>
<tr>
<td>High School × Immigration</td>
</tr>
<tr>
<td>Some College × Immigration</td>
</tr>
<tr>
<td>College × Immigration</td>
</tr>
<tr>
<td>No High School × Fiscal Exposure (1 or 2)</td>
</tr>
<tr>
<td>High School × Fiscal Exposure (1 or 2)</td>
</tr>
<tr>
<td>Some College × Fiscal Exposure (1 or 2)</td>
</tr>
<tr>
<td>College × Fiscal Exposure (1 or 2)</td>
</tr>
<tr>
<td>College × Fiscal Exposure (1 or 2)</td>
</tr>
<tr>
<td>State fixed effects</td>
</tr>
<tr>
<td>Baseline control variables</td>
</tr>
</tbody>
</table>

Notes: This table reports coefficient estimates for probit regressions on native individuals from the 1992 and 2000 NES surveys. The dependent variable is Immigration Opinion, equal to 1 for respondents who support further restricting immigration and 0 otherwise. The baseline control variables are Age, Age Squared, Female, Hispanic, State Unemployment, a year indicator variable for 2000, and a constant. Each cell reports a coefficient estimate, a state-clustered robust standard error in parentheses, and a p-value. Observations are weighted using sampling weights from the NES data.
graduates were approximately 14 percentage points less likely to prefer fewer immigrants than high-school dropouts.  

The results for respondents in high-immigration but low-fiscal-impact states show more evidence of this skills cleavage. For both fixed-effects specifications, the coefficient on the interaction between No High School and Immigration is positive, large in magnitude, and statistically significant (none of the other skill interactions with Immigration is significant). Low-skilled respondents have substantially stronger support for further immigration restrictions in those states for which immigration is high but fiscal exposure is low. More precisely, as this result is the clearest in specifications with state effects, it is in those states with increasing levels of immigrants that low-skilled natives most support restrictions. This is consistent with stronger labor-market consequences of immigration in those states, so that differences in policy opinions across skill groups are likely to be larger. The results for Model I2 imply that the difference in probability of supporting tighter immigration policies between College and No High School natives doubles in states with high immigration, to a difference of over 30 percentage points.

Our main substantive question of interest, however, is whether potentially high fiscal costs from immigration shape policy preferences. Our theoretical framework suggested that this effect may hold across all natives, but is likely to be the strongest for those with the highest skills and income. Across all four specifications in Table 2, the coefficients on interactions between College and Fiscal Exposure 1 (or 2) are positive and statistically significant. College-educated natives have more-restrictionist policy views in states for which the net fiscal burden of immigration is likely to be high. Table 2 also offers evidence of a fiscal effect for the other skill categories. Our preferred specification in Table 2 is Model I2, which uses Fiscal Exposure 1 (rather than 2) and includes (rather than excludes) state effects. In Model I2, the interaction of Fiscal Exposure 1 with each of the four skill measures is positive and statistically significant (although only marginally so for the No High School interaction).

These results for the fiscal-exposure regressors are consistent with the central argument of this paper: the post-tax fiscal burdens associated with more immigrants tend to increase support for immigration restrictions, and

23The size of this effect is very similar across all four specifications. We note that for respondents in these states, we do not observe the hypothesized differences between the No High School, High School, and Some College groups. There is some evidence (Models I3 and I4) that individuals with (i.e. not without) a high-school degree have the most restrictionist opinions.  

24Scheve and Slaughter (2001b) found little support for the prediction that policy opinion differences between more- and less-skilled workers are the strongest in gateway communities. The analysis in this paper takes advantage of a longer time period between surveys in order to estimate specifications with state fixed effects that account for unobserved state characteristics and identify changes in immigration population.
do so even among those more skilled individuals likely to benefit in the labor market from immigration. These results are the paper’s main finding.

The substantive magnitude of the fiscal-exposure effect is large. For the preferred fixed-effects specifications, Tables 2 and 3 report the estimated effect across different skill groups of increasing fiscal exposure to immigration on the probability of supporting immigration restrictions. For Fiscal Exposure 1, moving a college graduate from a state with low to high fiscal exposure to immigration raises the probability of favoring fewer immigrants by 18.9 percentage points (standard error of 5.3 percentage points). The size of the comparable effect for natives in the other three educational categories is about 10 percentage points, significantly different from zero for high school and some college. The magnitude of this post-tax fiscal cleavage is comparable with the magnitude of the pre-tax labor-market cleavage across skills mentioned above. For Fiscal Exposure 2, the results are almost identical in magnitude for college graduates (20.2 percentage points, standard error of 4.2) but are smaller and less precisely estimated for the other skill categories. We conclude from our benchmark results in Tables 2 and 3 that living in states with high fiscal costs from immigration significantly increases the likelihood of restrictionist opinions, and that the magnitude of this fiscal cleavage is large and in fact comparable in size to the labor-market cleavage across skills.

To evaluate the robustness of our benchmark results and also probe our interpretation of them, we estimated many alternative specifications. Some of these are reported in Tables 4–6. The two specifications in Table 4 add to our benchmark fixed-effects models a broader set of demographic and economic controls. Table 5 adds period and state fixed effects, and Table 6 adds other state and period characterics, such as language background and immigration enforcement policies, that we believe may affect attitudes about immigration.

Table 3: Estimated Effect of Increasing Fiscal Exposure to Immigration on the Probability of Supporting Immigration Restrictions

<table>
<thead>
<tr>
<th>Fiscal exposure measure</th>
<th>Education level</th>
<th>Change in probability of supporting immigration restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal Exposure 1</td>
<td>No High School</td>
<td>0.097 (0.066)</td>
</tr>
<tr>
<td></td>
<td>High School</td>
<td>0.119 (0.050)</td>
</tr>
<tr>
<td></td>
<td>Some College</td>
<td>0.094 (0.043)</td>
</tr>
<tr>
<td></td>
<td>College</td>
<td>0.189 (0.053)</td>
</tr>
<tr>
<td>Fiscal Exposure 2</td>
<td>No High School</td>
<td>0.075 (0.102)</td>
</tr>
<tr>
<td></td>
<td>High School</td>
<td>0.057 (0.054)</td>
</tr>
<tr>
<td></td>
<td>Some College</td>
<td>0.055 (0.044)</td>
</tr>
<tr>
<td></td>
<td>College</td>
<td>0.202 (0.042)</td>
</tr>
</tbody>
</table>

Notes: Based on the estimates from Models I2 and I4, this table reports the consequences for the probability of supporting immigration restrictions of changing from a state in which fiscal exposure to immigration is low (Fiscal Exposure 1 or 2 equals 0) to a state in which it is high (Fiscal Exposure 1 or 2 equals 1) for individuals at different skill levels. The standard error of this estimate is reported in parentheses.
political control variables. The estimates for these additional control variables are mostly consistent with previous findings in the literature. For example, respondents who scored higher on our measure of Tolerance were

\[ \text{Tolerance} = \frac{5 - \text{Disagree}}{5 - \text{Agree}} \]

\[ \text{Disagree} = 1, \text{Agree} = 5 \]

For High School, Some College, College, No High School × Immigration, High School × Immigration, Some College × Immigration, College × Immigration, No High School × Fiscal Exposure (1 or 2), High School × Fiscal Exposure (1 or 2), Some College × Fiscal Exposure (1 or 2), College × Fiscal Exposure (1 or 2), Unemployed, Union Member, Government Employee, Partisanship, Ideology, Tolerance, Isolationism, the model estimates are as follows:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Fiscal Exposure 1</th>
<th>Fiscal Exposure 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model 15</td>
<td>Model 16</td>
<td></td>
</tr>
<tr>
<td>High School</td>
<td>0.142 (0.159)</td>
<td>0.146 (0.152)</td>
</tr>
<tr>
<td>Some College</td>
<td>-0.022 (0.150)</td>
<td>-0.006 (0.142)</td>
</tr>
<tr>
<td>College</td>
<td>-0.304 (0.169)</td>
<td>-0.289 (0.160)</td>
</tr>
<tr>
<td>No High School × Immigration</td>
<td>0.507 (0.234)</td>
<td>0.662 (0.374)</td>
</tr>
<tr>
<td>High School × Immigration</td>
<td>0.038 (0.171)</td>
<td>0.238 (0.172)</td>
</tr>
<tr>
<td>Some College × Immigration</td>
<td>-0.019 (0.106)</td>
<td>0.167 (0.157)</td>
</tr>
<tr>
<td>College × Immigration</td>
<td>-0.133 (0.112)</td>
<td>-0.024 (0.155)</td>
</tr>
<tr>
<td>No High School × Fiscal Exposure (1 or 2)</td>
<td>0.273 (0.264)</td>
<td>0.287 (0.355)</td>
</tr>
<tr>
<td>High School × Fiscal Exposure (1 or 2)</td>
<td>0.331 (0.144)</td>
<td>0.276 (0.136)</td>
</tr>
<tr>
<td>Some College × Fiscal Exposure (1 or 2)</td>
<td>0.222 (0.134)</td>
<td>0.182 (0.094)</td>
</tr>
<tr>
<td>College × Fiscal Exposure (1 or 2)</td>
<td>0.529 (0.144)</td>
<td>0.603 (0.131)</td>
</tr>
<tr>
<td>Unemployed</td>
<td>-0.281 (0.145)</td>
<td>-0.271 (0.143)</td>
</tr>
<tr>
<td>Union Member</td>
<td>0.165 (0.108)</td>
<td>0.164 (0.107)</td>
</tr>
<tr>
<td>Government Employee</td>
<td>-0.015 (0.065)</td>
<td>-0.006 (0.062)</td>
</tr>
<tr>
<td>Partisanship</td>
<td>0.030 (0.017)</td>
<td>0.032 (0.017)</td>
</tr>
<tr>
<td>Ideology</td>
<td>0.046 (0.024)</td>
<td>0.050 (0.024)</td>
</tr>
<tr>
<td>Tolerance</td>
<td>-0.044 (0.022)</td>
<td>-0.052 (0.023)</td>
</tr>
<tr>
<td>Isolationism</td>
<td>0.461 (0.066)</td>
<td>0.463 (0.065)</td>
</tr>
<tr>
<td>State fixed effects</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Baseline control variables</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Observations</td>
<td>2,201</td>
<td>2,277</td>
</tr>
<tr>
<td>Log-likelihood</td>
<td>-1,419.25</td>
<td>-1,463.65</td>
</tr>
</tbody>
</table>

Notes: This table reports coefficient estimates for probit regressions on native individuals from the 1992 and 2000 NES surveys. The dependent variable is Immigration Opinion, equal to 1 for respondents who support further restricting immigration and 0 otherwise. The baseline control variables are Age, Age Squared, Female, Hispanic, State Unemployment, a year indicator variable for 2000, and a constant. Each cell reports a coefficient estimate and a state-clustered robust standard error in parentheses. Observations are weighted using sampling weights from the NES data.

25The variables Unemployed, Union Member, and Government Employee are dichotomous indicator variables. The variable Partisanship is a seven-point score ranging from 1 if a respondent self-identifies as a “strong Democrat” to 7 if a respondent self-identifies as a “strong Republican.” The variable Ideology is a seven-point score ranging from 1 if a respondent identifies themselves as “extremely liberal” to 7 if a respondent identifies themselves as “extremely conservative.” The variable Isolationism is a dichotomous variable coded 1 if the respondent indicates agreement with the statement “This country would be better off if we just stayed home and did not concern ourselves with problems in other parts of the world” and 0 otherwise. The variable Tolerance is a five-point scale indicating the extent of agreement with the statement “We should be more tolerant of people who choose to live according to their own moral standards, even if they are very different from our own,” with 1 indicating “strongly disagree” and 5 indicating “strongly agree.”
Individuals with isolationist views about the role of the United States in the world, as measured by Isolationism, were much more likely to support further immigration restrictions. These findings highlight the common claim in the literature that policy attitudes about immigration are shaped in part by non-economic considerations (e.g. Citrin et al., 1997; Dustmann and Preston, 2004a; Hainmueller and Hiscox, 2005; Scheve and Slaughter, 2001b). We would add that these non-economic considerations potentially

less likely to have restrictionist opinions about immigration policy. Individuals with isolationist views about the role of the United States in the world, as measured by Isolationism, were much more likely to support further immigration restrictions. These findings highlight the common claim in the literature that policy attitudes about immigration are shaped in part by non-economic considerations (e.g. Citrin et al., 1997; Dustmann and Preston, 2004a; Hainmueller and Hiscox, 2005; Scheve and Slaughter, 2001b). We would add that these non-economic considerations potentially

26This interpretation needs, however, to be made cautiously. It is, of course, possible that factors such as levels of tolerance, ideology, and isolationist sentiments are a consequence of

Table 5: Immigration-Policy Preferences, Income Specifications

<table>
<thead>
<tr>
<th></th>
<th>Fiscal Exposure 1</th>
<th>Fiscal Exposure 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model I7</td>
<td>Model I8</td>
</tr>
<tr>
<td>Income Quartile 2</td>
<td>0.137 (0.096)</td>
<td>0.163 (0.092)</td>
</tr>
<tr>
<td></td>
<td>0.156</td>
<td>0.078</td>
</tr>
<tr>
<td>Income Quartile 3</td>
<td>0.184 (0.124)</td>
<td>0.173 (0.113)</td>
</tr>
<tr>
<td></td>
<td>0.137</td>
<td>0.128</td>
</tr>
<tr>
<td>Income Quartile 4</td>
<td>−0.140 (0.098)</td>
<td>−0.106 (0.098)</td>
</tr>
<tr>
<td></td>
<td>0.152</td>
<td>0.276</td>
</tr>
<tr>
<td>Income Quartile 1 × Immigration</td>
<td>0.037 (0.151)</td>
<td>0.083 (0.176)</td>
</tr>
<tr>
<td></td>
<td>0.806</td>
<td>0.639</td>
</tr>
<tr>
<td>Income Quartile 2 × Immigration</td>
<td>0.055 (0.115)</td>
<td>0.278 (0.163)</td>
</tr>
<tr>
<td></td>
<td>0.633</td>
<td>0.088</td>
</tr>
<tr>
<td>Income Quartile 3 × Immigration</td>
<td>0.171 (0.130)</td>
<td>0.305 (0.167)</td>
</tr>
<tr>
<td></td>
<td>0.188</td>
<td>0.068</td>
</tr>
<tr>
<td>Income Quartile 4 × Immigration</td>
<td>−0.097 (0.107)</td>
<td>−0.076 (0.151)</td>
</tr>
<tr>
<td></td>
<td>0.366</td>
<td>0.616</td>
</tr>
<tr>
<td>Income Quartile 1 × Fiscal Exposure (1 or 2)</td>
<td>0.220 (0.162)</td>
<td>0.235 (0.163)</td>
</tr>
<tr>
<td></td>
<td>0.175</td>
<td>0.150</td>
</tr>
<tr>
<td>Income Quartile 2 × Fiscal Exposure (1 or 2)</td>
<td>0.284 (0.169)</td>
<td>0.003 (0.147)</td>
</tr>
<tr>
<td></td>
<td>0.092</td>
<td>0.986</td>
</tr>
<tr>
<td>Income Quartile 3 × Fiscal Exposure (1 or 2)</td>
<td>0.262 (0.120)</td>
<td>0.152 (0.157)</td>
</tr>
<tr>
<td></td>
<td>0.029</td>
<td>0.334</td>
</tr>
<tr>
<td>Income Quartile 4 × Fiscal Exposure (1 or 2)</td>
<td>0.421 (0.134)</td>
<td>0.413 (0.150)</td>
</tr>
<tr>
<td></td>
<td>0.002</td>
<td>0.006</td>
</tr>
</tbody>
</table>

State fixed effects: Yes, Yes
Baseline control variables: Yes, Yes
Observations: 2,734, 2,867
Log-likelihood: −1,846.18, −1,936.72

Notes: This table reports coefficient estimates for probit regressions on native individuals from the 1992 and 2000 NES surveys. The dependent variable is Immigration Opinion, equal to 1 for respondents who support further restricting immigration and 0 otherwise. The baseline control variables are Age, Age Squared, Female, Hispanic, State Unemployment, a year indicator variable for 2000, and a constant. Each cell reports a coefficient estimate, a state-clustered robust standard error in parentheses, and a p-value. Observations are weighted using sampling weights from the NES data.
provide a complementary answer to our emphasis on fiscal considerations in addressing why individuals might have different opinions about alternative globalization strategies. Certainly, one reason is that prejudice and other political attitudes may play a larger role in policies like immigration in comparison with policies like trade.

Rather than exploring the results for these control variables in greater detail, we focus on the robustness of our key fiscal findings for these specifications. For both Models I5 and I6, the key fiscal-exposure estimates remain statistically and substantively significant. If anything, results come through more clearly with the additional controls: now the interaction terms provide a complementary answer to our emphasis on fiscal considerations in addressing why individuals might have different opinions about alternative globalization strategies. Certainly, one reason is that prejudice and other political attitudes may play a larger role in policies like immigration in comparison with policies like trade.

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of Fiscal Exposure 2 with High School and Some College are also significantly different from zero.27

In Table 5, we experiment with alternative measures of individual skills and relative fiscal position. Consistent with much work in labor economics, our benchmark specifications measure individual skills and relative fiscal position with educational attainment. This latter choice assumes that long-run or “permanent” income is determined primarily by human capital. As a check on this assumption, in Table 5, we replace educational attainment with reported income ranked by quartiles, retaining other aspects of the benchmark specification. Our key fiscal results are qualitatively the same as those in Table 2. For both measures of fiscal exposure to immigration, the interaction terms with all income quartiles are positive. For both fiscal measures the estimate is the largest and statistically significant for the highest income quartile. And for Fiscal Exposure 1, the estimate is significant for the third quartile and marginally so for the second. These results are consistent with the argument that respondents more exposed to the tax and transfer consequences of immigration have more restrictionist immigration opinions.28

Another set of immigration results are presented in Table 6, where we explore our interpretation of the key fiscal-exposure results. Our theoretical framework emphasized that the fiscal impact of immigration may affect natives of all skill and income groups. But as most state tax and transfer systems are at least somewhat progressive, the impact of immigration on net fiscal transfers is likely to hit the most skilled, highest-income natives the hardest. Evidence consistent with this argument has been presented in terms of the magnitude of the effect of fiscal exposure across different skill categories.

This interpretation can be bolstered by re-estimating our benchmark specifications on the subsample of natives living in states with the most progressive tax systems. We identify these states with two measures. The first indicates all states with above-median values of the ratio of the top income-tax rate to the bottom rate. The second indicates all states with above-median values of the ratio of income tax revenue to total revenue. Based on our theoretical framework, we expect that the pattern of estimates for the consequences of increasing fiscal exposure on restrictionist immigration will be most clear in those states that match our theoretical discussion of relatively progressive tax and transfer systems.

The results reported in Table 6 confirm this expectation, where we use our preferred Fiscal Exposure 1. The most striking difference between these

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27To further test the robustness of the correlation between fiscal exposure and policy opinions to the inclusion of additional control variables, we estimated a number of alternative specifications that added further measures of attitudes toward minority groups. In all specifications, the results were qualitatively similar to those reported in Table 4.

28These results using income quartiles are also robust to including the additional control variables discussed in Table 4.
results and those in Table 2 for the full sample is that the magnitude of
the impact of living in a state with high fiscal exposure to immigration is
now much larger for these subsamples of states with relatively progressive
tax systems. For example, for the model using our first measure of pro-
gressive states, moving a high-school graduate from a state with low to
high fiscal exposure to immigration raises the probability of favoring fewer
immigrants by 15 percentage points – vs. just six to 12 percentage points in
the full-sample estimates of Table 2. For this same model, for college
graduates, the impact of living in a state with high rather than low fiscal
exposure is over 30 percentage points – vs. about 20 percentage points in the
full sample.

We also note that our interpretation of the key fiscal-exposure results is
supported not just by the larger substantive magnitudes for the subsample of
progressive states. It is also supported by the evidence in Table 6 that the
differences across education categories are now larger than before. The es-
timates in the final column of Table 6 are not just larger but even suggest a
linear progression in the magnitude of the effect of fiscal exposure, moving
up the four education groups from an estimated increase of 0 percentage
points to 11, 19, and 33, respectively.

Beyond Tables 4–6, we verified the robustness of our central results to
many other checks (unreported for brevity). For example, we experimented
with alternative measures of state fiscal exposure to immigration, such as
expanding our reported measures to account for other researchers’ inter-
pretation of state responses to the 1996 federal welfare reform.29 We
dropped individual states from our sample, in particular outlier immigration
states shown in our figures such as California and New York. We added
additional non-economic individual characteristics that might help shape
opinions, e.g. additional tolerance measures. We estimated our main speci-
fications using multiple imputation to address potential bias from item non-
response in the surveys.

For all these checks, our main result from Tables 2–6 again persisted:
fiscal exposure to immigration reduces support for freer immigration, and
this effect is the strongest among the high-skilled/high-income natives who
pay a proportionately higher share of the fiscal costs. The magnitude of this
fiscal cleavage is comparable to that for skill itself, from which we conclude
that public-finance considerations are crucial in shaping opinions toward
immigration policies.

29Zimmermann and Tumlin (1999) categorize states that did not reverse federal welfare re-
strictions on immigrants set in the 1996 reforms, and thus post-1996 had regimes that were less
generous to immigrants than to natives. We recreated Fiscal Exposure 1 by removing from the
group of high welfare generosity in 2000 states that Zimmerman and Tumlin categorized as non-
reversers. For results on these and many other robustness checks discussed in this subsection, see
Hanson et al. (2005b).
5.2 Trade Policy Preferences

Table 7 reports our estimates of equation (3) for trade-policy preferences. Recall that based on our theoretical framework, we expect trade opinions to depend on pre-tax labor-market concerns but not on post-tax fiscal concerns. This is both because, in theory, trade does not have the necessary fiscal consequences that immigration does by virtue of population changes, and in practice because U.S. taxation and spending linked to trade policy is negligible.

The first two specifications in Table 7 are identical to Models I2 and I4 in Table 2 for immigration, except that now the new dependent variable measures trade-policy opinions. Because these specifications measure state fiscal exposure to immigration, we do not expect to find any correlation here between fiscal concerns and trade opinions. The final two specifications use different fiscal measures that may be more relevant to possible fiscal impacts

<table>
<thead>
<tr>
<th>Fiscal exposure measure</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High School</strong></td>
<td>-0.111 (0.121)</td>
<td>-0.020 (0.123)</td>
<td>-0.074 (0.151)</td>
<td>-0.033 (0.161)</td>
</tr>
<tr>
<td></td>
<td>0.360</td>
<td>0.869</td>
<td>0.623</td>
<td>0.837</td>
</tr>
<tr>
<td><strong>Some College</strong></td>
<td>-0.390 (0.133)</td>
<td>-0.267 (0.146)</td>
<td>-0.268 (0.138)</td>
<td>-0.263 (0.143)</td>
</tr>
<tr>
<td></td>
<td>0.003</td>
<td>0.067</td>
<td>0.053</td>
<td>0.066</td>
</tr>
<tr>
<td><strong>College</strong></td>
<td>-0.971 (0.132)</td>
<td>-0.849 (0.128)</td>
<td>-0.908 (0.163)</td>
<td>-0.946 (0.143)</td>
</tr>
<tr>
<td></td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td><strong>No High School × Fiscal Exposure (1–4)</strong></td>
<td>-0.367 (0.264)</td>
<td>0.232 (0.360)</td>
<td>0.004 (0.306)</td>
<td>0.245 (0.275)</td>
</tr>
<tr>
<td></td>
<td>0.165</td>
<td>0.519</td>
<td>0.989</td>
<td>0.373</td>
</tr>
<tr>
<td><strong>High School × Fiscal Exposure (1–4)</strong></td>
<td>-0.228 (0.132)</td>
<td>0.132 (0.196)</td>
<td>-0.021 (0.238)</td>
<td>0.160 (0.189)</td>
</tr>
<tr>
<td></td>
<td>0.084</td>
<td>0.500</td>
<td>0.928</td>
<td>0.398</td>
</tr>
<tr>
<td><strong>Some College × Fiscal Exposure (1–4)</strong></td>
<td>-0.221 (0.148)</td>
<td>0.111 (0.188)</td>
<td>-0.173 (0.236)</td>
<td>0.064 (0.179)</td>
</tr>
<tr>
<td></td>
<td>0.135</td>
<td>0.553</td>
<td>0.462</td>
<td>0.719</td>
</tr>
<tr>
<td><strong>College × Fiscal Exposure (1–4)</strong></td>
<td>-0.046 (0.161)</td>
<td>0.223 (0.193)</td>
<td>0.045 (0.259)</td>
<td>0.376 (0.164)</td>
</tr>
<tr>
<td></td>
<td>0.773</td>
<td>0.249</td>
<td>0.863</td>
<td>0.022</td>
</tr>
<tr>
<td>State fixed effects</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Baseline control variables</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Observations</td>
<td>2,297</td>
<td>2,401</td>
<td>2,297</td>
<td>2,297</td>
</tr>
<tr>
<td>Log-likelihood</td>
<td>-1,379.76</td>
<td>-1,447.92</td>
<td>-1,380.17</td>
<td>-1,377.77</td>
</tr>
</tbody>
</table>

Notes: This table reports coefficient estimates for probit regressions on native individuals from the 1992 and 2000 NES surveys. The dependent variable is Trade Opinion. The baseline control variables are Age, Age Squared, Female, Hispanic, State Unemployment, a year indicator variable for 2000, and a constant. Each cell reports a coefficient estimate, a state-clustered robust standard error in parentheses, and a p-value. Observations are weighted using sampling weights from the NES data.
of trade. Fiscal Exposure 3 is defined using just the first criterion of Fiscal Exposure 1; that is, it identifies states with relatively high welfare generosity measured as above the national median welfare spending per native. Fiscal Exposure 4 is the same as Fiscal Exposure 3 but scores states on welfare spending divided by gross state product rather than number of natives. If state welfare programs provide some insurance to the pre-tax income pressures generated by freer trade, then individuals who feel they carry the burden of this welfare spending may be less inclined to support freer trade. As with immigration, given the progressivity of state fiscal regimes, this disinclination may be the strongest among the more-skilled, higher-income individuals.

The results across all four specifications in Table 7 replicate the findings in the literature that more-skilled individuals are less likely to support further trade restrictions. For an individual in a state with low fiscal impact, the coefficients for Model T1 imply that the difference between a college graduate and high-school dropout in the probability of favoring further trade restrictions is 0.37 (with a standard error of 0.05). This difference is identical for residents in high fiscal impact states, and is robust across all alternative specifications. This skills cleavage is consistent with the potential impact of trade on pre-tax labor income being important in opinion formation.

More important for this paper’s focus on fiscal concerns, Table 7 shows no consistent variation in opinions over trade policy across states based on their fiscal regimes. The coefficients in Table 7 for interactions between the education variables and the fiscal-exposure measures are generally small and imprecisely estimated. We expected this for Fiscal Exposure 1 and 2, but also find this for Fiscal Exposure 3 and 4. The only exception is a statistically significant coefficient estimate on the interaction between College and Fiscal Exposure 4 but in unreported results this particular finding was not very robust.

This lack of a clear correlation between trade opinions and fiscal considerations, along with the opposite evidence for immigration, is consistent with our overall argument that public-finance considerations appear to be crucial in shaping opinions toward alternative globalization strategies. Where public-finance matters can bite directly – in our data, for immigration but not trade – we see important impacts on individual opinions.

6. CONCLUSIONS

This paper has examined the influence of public finance on individual preferences toward alternative globalization strategies. In the absence of distortionary tax and spending policies, freer immigration and trade for a country would often be supported by similar groups thanks to similar impacts on labor demand and thus labor income. But government policies that redistribute income may alter the distributional politics. Immigrants
may pay taxes and receive public services. Imports, obviously, do neither of these. This suggests that quite different political coalitions may organize around trade and immigration. In this paper, we developed a framework for examining how pre-tax and post-tax cleavages may differ across globalization strategies and also across fiscal jurisdictions and applied this framework to the case of individual immigration and trade preferences across U.S. states.

Our results suggest that high exposure to immigrant fiscal pressures reduces support for freer immigration among natives, especially the more skilled. The magnitude of this post-tax fiscal cleavage is comparable to the pre-tax labor-market effects of skill itself. Further, we find that there is no public-finance variation in opinion over trade policy, consistent with the data that U.S. trade policy has negligible fiscal-policy impacts. In considering the fiscal impacts of trade policy, we exploit variation in fiscal policy at the state level, aggregating over communities within states that may have diverse industry mixes. There may be important fiscal impacts at the local level— for instance, plant closures in a community may diminish local property tax revenues— that could affect policy preferences, which our data do not capture.

Our findings indicate that public-finance considerations are crucial in shaping opinions toward alternative globalization strategies. It is not just distributive politics in the labor market that feature prominently for these opinions, as much recent work has investigated. It is also distributive politics in the fiscal arena as well.

We think that this insight may shed light on a number of important questions in international political economy. For example, even within the same policy domain, the fiscal issues at stake can vary greatly and account for differences in the politics observed in different contexts. U.S. immigration policy was much more liberal a century ago than today. One source of this difference may be that, unlike today, a century ago the United States had virtually no social safety net. Fiscal considerations may also push in the opposite direction. In current immigration debates in Europe, concern over social spending on immigrants is balanced against the need to recruit workers whose tax payments could support state pension systems that face dangerous shortfalls from significantly aging populations.

But the most interesting application of our framework may be to help explain why countries choose different policy approaches toward different dimensions of international economic integration. It has long been recognized that many countries choose liberal trade but restrictionist immigration policies. Perhaps even more striking is how liberal policies regulating foreign investment are compared with both trade and immigration. We think that future research examining the fiscal consequences of policy alternatives may help account for voter preferences and their role in explaining these policy combinations.
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