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Article

Demographic and economic determinants of migration

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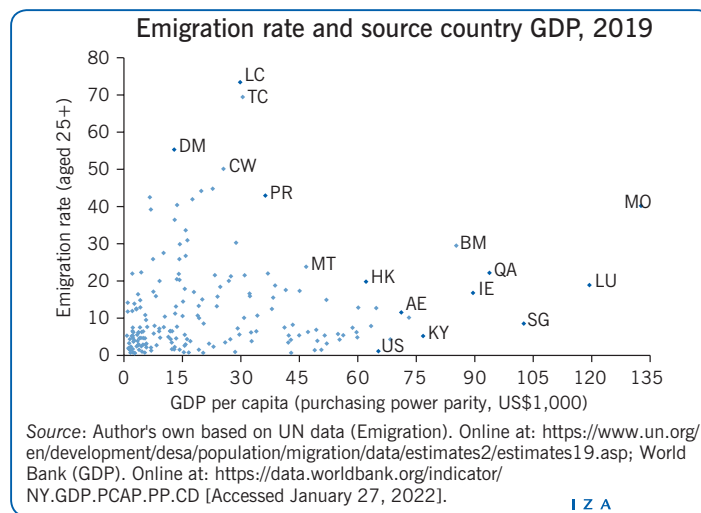
Demographic and economic determinants of migration

Push and pull factors drive the decision to stay or move

Keywords: migration, determinants, costs, networks

ELEVATOR PITCH

There are a myriad of economic and non-economic forces behind the decision to migrate. Migrants can be “pushed” out of their home countries due to deteriorating economic conditions or political unrest. Conversely, migrants are often “pulled” into destinations that offer high wages, good health care, strong educational systems, or linguistic proximity. In making their decision, individuals compare the net benefits of migration to the costs. By better understanding what forces affect specific migrant flows (e.g. demographic characteristics, migrant networks, and economic conditions), policymakers can set policy to target (or reduce) certain types of migrants.



KEY FINDINGS

Pros

- ⊕ Increases in income differentials across countries often lead to increases in migrant flows.
- ⊕ Strong migrant networks have historically played a large role in enhancing migrant flows.
- ⊕ Tax and government transfer policies (e.g. welfare, health care, and educational systems) can attract migrants.
- ⊕ Migration serves as a form of insurance for households and the desire to remit earnings from abroad may form part of the household decision to migrate.
- ⊕ Macroeconomic conditions at home and abroad can affect the flow of migrants.

Cons

- ⊖ Migration costs are central to the migration decision, they take many forms (e.g. transportation, job search, visa fees, smuggler fees), and often vary with distance.
- ⊖ Strict migration policy acts as a constraint in the migration decision.
- ⊖ Demographic factors such as age, education, marital status, and language impact a person's willingness to migrate.
- ⊖ Worsening political and environmental conditions abroad and/or improving conditions at home can lead to less migration.

AUTHOR'S MAIN MESSAGE

Many factors affect the net benefits and costs of migration and thus impact the decision to migrate. Studies indicate that the key determinants of migration include the availability of migrant networks, differences in income across countries, and demographic factors, but many other factors also affect the migration decision. Constraints created by tighter migration policy represent the most significant hurdle to migration. Prior to making significant changes in migration policy, policymakers should make sure they sort out which factors are driving each migrant flow so they are better prepared to welcome their new migrants.

MOTIVATION

Consider the forces that would motivate people and their families to leave their home country and move to another to start a new life. Some of those forces are economic: a higher standard of living, the chance to find a better job, or a more comfortable safety net. However, other forces are at play as well, such as superior amenities (e.g. air quality), a democratic political system, and access to a better education system. Between 2010 and 2020, the growth in the migrant stock worldwide increased by 5.1 million each year [1]. Many more would like to migrate if given the opportunity. Understanding the key determinants of migration patterns is essential when considering the implications of immigration policy. Setting immigration policy without thinking through the various mechanisms that are driving migrant flows is misguided and could lead to unintended consequences.

Framework for making migration decisions

It is important to develop a framework in thinking through the various determinants of migration. A simple “Roy model” examines how self-selection into migration affects the distribution of income. Inherent to the Roy model is a net present value (NPV) calculation for migration that allows the forward-looking nature of the decision to migrate to be emphasized. In fact, individuals (or households) will decide to migrate only if the NPV is positive, that is, if the (discounted) net benefits to migration outweigh the (discounted) costs. Importantly, when calculating NPV, the benefits and costs of migration in future periods must be adjusted (through the use of a fixed discount rate) as a way to accurately compare values over time. The NPV model of migration is implicitly rooted in utility or income maximization—it assumes that people base their decision to migrate on whether migration makes them better off over a long period of time.

It should be noted that this article focuses on international migration, not internal migration. However, many of the determinants discussed in this article would also apply to internal migration.

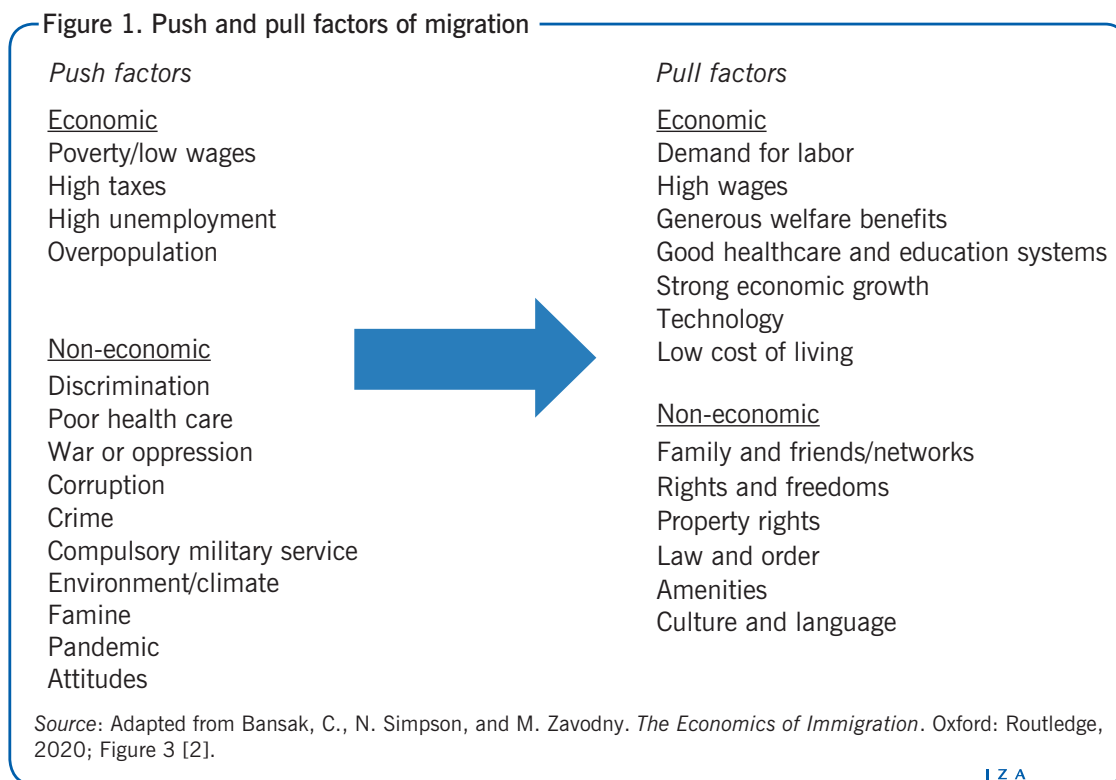
DISCUSSION OF PROS AND CONS

Factors enhancing migration

Income differentials and income inequality

The net benefits to migration include the increase in income (or “utility”) gained by migrating, or the difference between origin country (where migrants are moving from) and host country (where migrants are moving to) income. Workers in poorer countries are often looking for higher wages and better employment opportunities, which can usually be found in richer countries. As a result, nearly every economic model of migration incorporates income differentials and finds them to be an important factor when trying to explain migrant flows in a given period. Income can serve as a “push” factor: low income levels can push migrants out of their home country, as shown in the Illustration on p. 1. Conversely, high income levels “pull” migrants into a specific country or region (Figure 1) [2]. In this context, *push* factors are conditions that propel people to leave the origin country, while *pull* factors are conditions that entice people to enter a destination country.

In many cases, both push and pull forces are at play but income tends to have larger pull effects than push effects [3]. Over time, income differentials between countries may change, which can affect migrant flows; as income differentials increase (either by origin country income decreasing and/or host country income increasing), there is a larger incentive to migrate. The reverse holds true when income differentials decrease. In this case, the net gain to migration falls, so fewer workers find it attractive to migrate



abroad. In addition, the level of income in the home country is relevant. For very low levels of income, people may not be able to afford migration. As income increases, more can afford to migrate, but the gains to migration fall. Income levels and differences in income, by affecting the net benefits of migration, are typically considered among the most important determinants in the decision to migrate.

Income variability can also affect the migration decision. If income is highly volatile, workers may be incentivized to search for more stable income streams, especially in countries where credit markets are nonexistent or incomplete. (Economic theory indicates that individuals can save or borrow to smooth out their income streams, but in some countries access to credit markets is limited.) Thus, less income volatility in the host country may increase the net benefits of migration and/or decrease migration costs. In addition, countries with high amounts of income inequality often have large gaps between wages for high-skilled workers and low-skilled workers. Similar to income levels, the distribution of income can work as a push or pull factor. “There is a higher incentive to migrate if one is poor among rich than if one is poor among poor,” suggesting that income inequality is a push factor [4], p. 5. At the same time, income inequality may act as a pull factor: potential migrants with high levels of education may be pulled to countries where the returns to skills are high.

Networks: Family and friends

Nearly every contemporary study of the determinants of migration considers the importance of migrant networks in the host country. The most typical way to measure networks is to control for the stock of migrants from a given migrant's origin country in the host country (or region). Since migrant stocks are captured in most national censuses, network effects are easily measured. Research consistently finds a strong, positive effect of migrant networks on predicting new migrant flows. That is, migrants are often attracted to host countries with large populations of migrants (diasporas) from the same country of origin. Having a community of people who speak the same language and share the same culture leads to lower psychological costs associated with migration. Networks may also reduce the economic costs of migration by helping migrants find employment and housing, as well as helping the migrant assimilate to their new location. Over time, as migrants assimilate to their new country, their reliance on the migrant community may decrease as they learn the host country's culture and language, thereby reducing the net benefits created by the local migrant community.

Estimates suggest that if the stock of migrants from a specific country increases by 1,000 people, then the flow of migrants will increase by 4.7 people per year, although the effect dampens as the migrant stock gets bigger, suggesting that migrant networks have the largest effect when migrant stocks are small [5]. In the majority of studies decomposing the various determinants of migration, migrant networks are usually the most important predictor of migrant flows. For example, migrant stocks explain more than 70% of the observed variation in migrant flows to OECD countries [6]. In addition, migrant networks tend to matter most for migrants coming from poor origin countries [7].

Taxes, transfers, and the government safety net

Taxes and government transfers (e.g. unemployment insurance, welfare) often serve as pull factors rather than push factors (but in theory they could be both). Income taxes, for example, reduce the return to working and hence lower the net benefits of migration. Countries with progressive income taxes (where higher incomes are taxed more heavily) may deter the flow of high-skilled migrants since lower after-tax wages will reduce the incentive to migrate. However, low-skilled migrants will be taxed very little (if at all) in a country with progressive taxes, so they may have larger incentives to migrate. Migrant flows are found to be lower to countries with higher tax burdens [8]. Other types of taxes will similarly distort the migration decision. For example, countries with high consumption (or sales) taxes have higher costs of living (especially for low-income migrants). Similarly, capital gains taxes may discourage migrants who seek investment opportunities abroad.

The availability of social insurance programs appears to affect whether or not people migrate. Receiving access to strong health care and educational systems in the host country may increase the benefit of migration and serve as a strong pull factor. In fact, families often migrate abroad primarily for educational reasons; they want their children to have better educational opportunities than what are offered back home.

Countries with generous government transfers may attract migrants; these locales are often considered "welfare magnets." The welfare magnet hypothesis suggests that migrants choose their destination based on the generosity of public assistance programs. Welfare payments, for example, can be viewed as a substitute for earnings during the time spent

searching for a job. Government transfers may thus attract certain types of migrants that would be eligible for these types of benefits. Increasingly, governments are making it more difficult for migrants to receive government transfers (at least in the period immediately following migration). That is, migrants often have to work in the host country for a few years before becoming eligible for government benefits. Most of the empirical evidence on the subject finds that countries with more generous public assistance benefits, as measured by social expenditures as a percentage of GDP, do not necessarily attract more migrants [7]. However, migrants from the poorest countries of origin appear to be more likely to migrate to countries with relatively generous social programs.

Insurance and remittances

For many, the decision to migrate is a household-level decision. The family unit as a whole must decide whether the entire family will migrate or if it will send only one member of the household abroad. In this way, migration may be a form of insurance against uncertainty in the form of household- and macro-level shocks. Remittances are the primary insurance mechanism for migrants; they allow family members who migrate abroad to send a portion of their income back home. In addition, families often help to relax the tight borrowing constraints that potential migrants face, especially in helping to finance the move. Households may be motivated by the insurance that migration provides, either by smoothing out macroeconomic cycles over time and across countries, or through cash or in-kind transfers received from family members abroad. Overall, using migration as a form of household-level insurance against individual or aggregate shocks can help reduce volatility in household incomes and increase the net benefit to migration over time. For some families (especially in relatively poor countries of origin), remittances can represent a significant fraction of household income, compounding these effects.

Macroeconomics factors: Exchange rates, business cycles, unemployment

Besides income (as measured by per capita GDP), many other macroeconomic factors impact the migration decision. Accordingly, exchange rates directly affect relative prices abroad and, hence, purchasing power. A strong foreign currency (relative to the currency in the country of origin) will allow the money earned abroad to buy more back home, increasing the net benefit to migration. Conversely, a strong home currency will reduce the value of earnings abroad. Exchange rates operate through both wages and remittances in affecting the migration decision.

As mentioned above, income volatility driven by business cycles (e.g. macroeconomic fluctuations) or changes in employment status can push migrants out of countries of origin or pull them into host countries. High unemployment in a country of origin may act as a push factor. In addition, migrants typically move to regions with low unemployment. Conversely, in times of economic recession, high unemployment rates in a host country deter migration, as evident in the 2007–2009 global financial crisis and the Covid pandemic in 2020.

Well-being, ability, optimism, aspirations, and risk tolerance

Many other non-economic factors may influence the decision to migrate as well. Measures of well-being (or happiness) are related to aggregate well-being and migrant flows. For example, fewer people move out of relatively unhappy countries as aggregate

happiness levels increase. Optimism may also affect the migration decision: the net benefit of migration may seem larger for an optimistic person than for a pessimistic person. Researchers have found some evidence indicating that migrants tend to be more optimistic than non-migrants.

Moreover, people's innate ability, ambitions, or risk aversion likely form part of the migration decision. It could be argued that ambitious people are more likely to migrate, while people who are risk averse may not be willing to gamble by migrating to a new country (the costs of migration may seem insurmountable to them). However, many of these traits are unobservable in the data as they can be difficult to quantify.

Hurdles to migration and other factors

There are several factors that make migration more difficult; some of these factors reduce the net benefits of migration, while most directly increase the costs, thereby reducing the net present value (NPV) of migration and the incentives to migrate.

Migration costs

Obviously, the direct economic costs of migration include the travel costs associated with the move. These generally depend on the distance traveled as airfare and other travel-related costs typically increase with distance. The so-called gravity model of migration explicitly considers the role of distance in estimating migrant flows. In nearly every study where the gravity model is employed, distance is significantly and negatively correlated with migrant flows. In addition, people often have to pay significant fees for visas and resident permits to gain legal entry. Visa fees and costs for permits vary significantly across both origin and host countries. In addition to direct costs, there are indirect costs of migration. For example, the psychological costs of leaving family and friends back home likely reduce the likelihood of migration.

In addition, migration is an uncertain endeavor, so people seek information about the potential host country. These information costs (e.g. time) can be high but are constantly decreasing due to technological progress. A potential migrant can now acquire better information about the availability of housing, jobs, and government benefits, for example, in advance of making the decision to migrate. Technological improvements thereby lower migration costs, which, in turn, increase migrant flows.

Immigration policy

Immigration policy plays a significant role in limiting the flow of international migrants. Some countries make it difficult for people to leave; however, more common is to restrict the number of people entering a country each year. When estimating the determinants of migration, it is important to control for host country immigration policy. Immigration policy can vary over time, so actual and/or expected changes in immigration policy impact the NPV of migration and alter the flow of migrants. The extent to which a country protects its borders and imposes its immigration policy is important; countries which are known to be relatively easy to enter may be more attractive to potential migrants. In contrast, when countries tighten their immigration policies, the costs of migrating may become sufficiently high to discourage migration. For example, when the US puts an emphasis on border enforcement

and deportation, it is more difficult to migrate to the US. Immigration policies may also alter the effect of push and pull factors; for example, policies that are more restrictive may prevent some people from migrating, even if income differentials are significant.

In most theoretical models of migration, immigration policy serves as a proxy for migration costs. Countries with relaxed immigration policy will be less costly to move to, while countries with tight policy (i.e. well-enforced) will be more costly. Consider the extreme case in which no people are allowed to migrate—the costs of migration always exceed the benefits. For all other cases, a positive flow of migrants suggests that the net benefits of migration exceed the costs for some migrants.

Demographic characteristics

The characteristics of potential migrants have long been a central part of explaining who migrates and who does not. It is important to note that those who migrate for work purposes can be quite different from those who migrate for family reunification or refugee/asylum status. Moreover, each migrant flow is unique in terms of the demographic characteristics, including age, gender, marital status, educational attainment, and so on. Labor migrants are often young, since they will have more time to realize the expected benefits of migration. Young migrants from neighboring countries are often attracted to destination countries with older populations indicating that demographic differences are important in explaining migration patterns [9]. Historically, labor migrants were typically working-age men, but, increasingly, migrant flows consist of women and families in search of employment abroad (and in some cases joining families already in the host country). Marital status is also important, with married people typically being less likely to migrate on their own and more likely to return home sooner.

The reasons driving the migration decision may be very different depending on the skill or education level of the migrant. In fact, there are important differences in the response of recent migrant flows on the basis of health and language. For example, studies typically find that migrants are healthier than non-migrants in the origin country and natives in the host country, and migration rates are higher among people who speak the same language as the host country. In fact, emigration rates are 14% to 20% higher among countries whose languages are linguistically similar compared to those that are linguistically distant [10]. Speaking the same language and being healthier may lower migration costs since the transitions into the culture and work are easier.

Overall, nearly every study of migration finds a significant role for demographic characteristics in explaining migrant populations. The set of characteristics that matters most varies significantly over time and across specific migrant flows.

Politics, attitudes, climate, and environmental conditions

When countries are different from one another in terms of regulations and political situations, the costs of migrating between those countries could be quite high and may reduce the NPV of migration. Moreover, worsening political conditions abroad and/or improving conditions at home can reduce the incentive to migrate. Significant differences in the political conditions and human rights between countries may partially explain why people do not migrate between them. For example, women in countries with very few rights for women may not be able to leave without the permission of their husband or father. Women in these countries

experience bad labor market outcomes so may not be able to afford to migrate, even if allowed. As women's rights improve, female migration often increases.

Environmental conditions may push migrants out of their country of origin, especially in the short term. Natural disasters can lead to a dramatic uptick in migration as households experience a large sudden (and often uninsurable) shock. Famines, much like natural disasters, can also push people out of their home country. Temperature changes may lead to out-migration but only in agriculture-dependent countries [11]. Improvements in the quality of life in the country of origin may also reduce the incentive to migrate. The consensus emerging is that climate change does not lead to large-scale international migration; however, climate can “trap” populations by tightening financial constraints, reducing the ability to migrate [12].

Pandemic

The Covid-19 pandemic led to a sudden closure of international borders and a halt to worldwide migration. Migration restrictions were tightened abruptly, but will take years to fully unwind. While there are competing factors at play, the pandemic has likely reduced the incentives to migrate abroad due to increased worldwide uncertainty. Thus, economic and noneconomic factors will continue to drive international migration but some people may be less likely to migrate; decision-making processes may look very different in the future. There may be periods of unpredictable migration flows. In addition, countries may keep their Covid-era immigration restrictions in place, further complicating the process of measuring the responsiveness of worldwide migrant flows to various factors.

Other considerations

While political and environmental factors can act as hurdles to migration, they can also serve as push and pull factors. Complicated political circumstances that create uncertainty in the origin country can serve as a push factor, while countries that are well-functioning democratic societies may attract new migrants, thereby increasing the benefits of migration. Push factors related to a country's political situation include war, oppression, corruption, crime, or discrimination, while pull factors consist of established property rights, law and order, and freedom. Measures of political freedom produced by the Heritage Foundation, for example, are often included in empirical analyses and are found to be important predictors of migrant flows [13].

War has been among the leading causes of large migrant flows historically, as recently evident in Syria and Ukraine. Repressive political regimes often drive people to leave their home country for fear of persecution, increasing the NPV of migration. Corruption often increases the cost of doing business, so many people who do not want to participate in bribery are pushed out of their (corrupt) origin country and pulled into a country with well-established property rights and rule of law. In addition, civil wars, upheavals, and human rights violations are well-documented push factors.

Push and pull factors affect the NPV calculation for all migrants, whether they are legal or illegal, low skilled or high skilled, young or old. It is important to note that some factors play bigger roles for certain migrant groups because of immigration policy. For example, if a country admits migrants based primarily on family preferences, the pull factor of family may matter a lot for legal migrants. Meanwhile, economic conditions may matter more for illegal migrants but are less important for refugees and asylum seekers. In many countries, illegal migrants enter mainly to work, while legal migrants

enter for a wider variety of reasons, including family ties. Regardless of their legal status, low-skilled and high-skilled workers alike are affected by the push and pull of relative economic conditions. However, high-skilled workers may have more resources to cover the costs associated with migration since they are likely to have higher household income.

In addition, the timing of migration is important. In thinking through the net benefits of migration, an individual or household may decide to move abroad and have plans to return home at a certain point in time once they have maximized the benefits of living abroad, especially if they left family behind in the country of origin.

LIMITATIONS AND GAPS

As with most studies of migration, finding reliable cross-country data over time is nontrivial. Most countries keep track of people coming into their countries (immigrants), while very few countries accurately measure people moving out of their countries (emigrants). In addition, accurately measuring the flow of illegal migrants into a country is complicated (although not impossible).

In an ideal world, countries would keep track of people coming into and leaving their countries over time. Importantly, detailed data on each migrant would be available to researchers, including a complete set of demographic information, their migration history, country of origin, reasons for migration, and migrant status (e.g. the type of visa they entered under). Increasingly, countries are doing a better job of collecting some of this information, though detailed demographic information is not always included. Ethnographic surveys provide many demographic details but are often not representative of migrant flows as a whole. In addition, given the political sensitivities around setting migration policies, countries are often unwilling to share their comprehensive data sets with researchers. To complicate matters, relatively poor countries cannot invest in systems that can handle this level of data collection.

In order to better understand the various reasons behind complex migration decisions, governments will have to collect better data and then be willing to share them with researchers. The EU, for example, has been the most willing to both collect the relevant data and share them publicly, which has generated a sizable increase in the research done on EU migrant flows. International organizations such as the International Organization for Migration and the United Nations Population Division are helping overcome the hurdles by providing comparable migration data across countries and time. Ideally, linking migration data to administrative records will provide comprehensive data sets that can disentangle the various determinants of migration; Scandinavian countries are the leaders in this regard. Still, more countries, rich and poor alike, need to cooperate.

The Covid-19 pandemic likely altered how migration decisions are made. As a result, migrant flows may be unpredictable for the near future. Researches are just beginning the task of sorting out the various factors that influenced migration decisions during the pandemic. The post-Covid immigration policy responses need to be analyzed.

SUMMARY AND POLICY ADVICE

Researchers have analyzed a variety of migrant flows using a multitude of empirical approaches to be able to tease out the key drivers of migration. Income differentials, migrant networks, and demographic factors are found to be robust predictors of migrant

flows. Many other factors identified in this article have also been found to be correlated with migrant flows; however, their ability to predict flows is lower.

Policymakers must carefully consider the key set of determinants for the particular flow of migrants entering their country. It would be difficult to set effective policy without first understanding both the push and pull factors. For example, if the goal is to reduce the number of migrants entering a country in cases when network effects are most relevant, then policy should be changed to be centered less on family preferences. Conversely, if income differentials are driving flows, perhaps migrants could be more heavily taxed (via entry or visa fees) to reduce flows.

Having reliable estimates about how migrant flows respond to fluctuations in GDP or unemployment rates, for example, could be particularly helpful for governments who want to set policy to slow the outflow or inflow of migrants. Likewise, suppose policymakers had a better understanding of the extent to which households in a certain country use migration as an insurance mechanism to buffer against fluctuations in household income: governments could work with non-governmental organizations to develop affordable household insurance schemes as a way of reducing the incentive to migrate. Or suppose host countries had a better understanding of the demographic characteristics of their specific migrant populations so that services could be targeted specifically toward their needs to ensure better integration into the host country. Perhaps most importantly, if a government could quantify (with relative certainty) the change in migrant flows as a result of a change in migrant policy (i.e. increasing visa application fees or granting amnesty to undocumented migrants), governments could make well-informed policy decisions.

Acknowledgments

The author thanks anonymous referees and the IZA World of Labor editors for many helpful suggestions on earlier drafts. Previous work of the author contains a larger number of background references for the material presented here and has been used intensively in parts of this article [2]. Version 2 of the article updates the figures, includes information on migration after the Covid-19 pandemic, and adds new “Further reading” and “Key references” [1], [3], [9], [10], [11], [12].

Competing Interests

The IZA World of Labor project is committed to the IZA Code of Conduct. The author declares to have observed the principles outlined in the code.

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