## Applied Research in Public Policy Making Fall 2024

## Benefits and costs of migration Week 2

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## Outline

- 1. Theory of migration
- 2. Push and pull factors of migration
- 3. Benefits and costs of migration
- 4. Remittances

## **THEORY OF MIGRATION**

Adam Smith (1776) was the first economist to write on migration:

... the wages of labour vary more from place to place than the price of provisions. The prices of bread and butcher's meat are generally the same or very nearly the same through the greater part of the United Kingdom. These and most other things which are sold by retail, the way in which the labouring poor buy all things, are generally fully as cheap or cheaper in great towns than in the remoter parts of the country ... But the wages of labour in a great town and its neighbourhood are frequently a fourth or a fifth part higher than at a few miles distance. Eighteen pence a day may be reckoned the common price of labour in London and its neighbourhood. At a few miles distance it falls to eight pence, the usual price of common labour through the greater part of the low country of Scotland, where it varies a good deal less than in England. Such a difference of prices, which it seems is not always sufficient to transport a man from one parish to another, would necessarily occasion so great a transportation of the most bulky commodities, not only from one parish to another, but from one end of the kingdom to the other. After all that has been said of the levity and inconstancy of human nature, it appears evidently from experience that a man is of all sorts of luggage the most difficult to be transported.

An Inquiry into the Nature and Causes of the Wealth of Nations, 1776

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- Smith found trade to be more intense than migration. The reason is that migration is hampered by certain barriers that trade is not.
- Regional differences in commodity or factor prices provide opportunities for arbitrage.
- Intercity movements of goods (trade) arbitrages away commodity price differentials, whereas intercity movements of people (migration) arbitrages away wage differentials.
- Smith suggested that migration is a response to spatial differences in the returns to labor supply.

## Theory of migration: migration as human capital investment

- Becker (1964) argues that migration is an investment because it involves the incurring of direct and indirect costs up-front in order to realize an (uncertain) payoff in the future.
- The migrant's goal is to <u>maximize utility</u> by choosing the location that offers the highest <u>net return</u> to human capital.
- People can migrate for reasons other than income maximization (e.g. family reunification, political asylum).

## Empirical observations by Becker (1964)

- Imperfect transferability of human capital, especially in high-skill areas, across borders limits migration
- Younger persons are more likely to migrate than older persons
- Temporary migrants have less incentives to invest in skills than permanent residents
- More able people tend to migrate more
- Migration is relatively low despite huge real international earnings differences

## **DETERMINANTS OF MIGRATION**

## Why people **do** migrate (relocate)?

- For work
- For study
- Marriage
- Retirement

- Housing amenities (e.g. air quality, culture, university)

#### Figure 1.2. Permanent migration flows to OECD countries by category of entry, 2007-16



A. Variations in categories of entry

- One out of five permanent migrants in 2016 was a humanitarian migrant (900,000 people).
- United States (17%) and Germany (50%) were main destinations.

# Permanent migration flows to OECD countries by category of entry

The family migration accounts for more than a half of all migration excluding free movement.



*Note*: Includes only countries for which data on permanent migration are available. *Source*: *OECD International Migration Database*, <u>https://doi.org/10.1787/data-00342-en</u>.

## **PUSH AND PULL FACTORS**

## Immigration push and pull factors

**Push factors** 

Economic

Pull factors Economic



#### Other

#### Other

The Economics of Immigration, by Bansak, Simpson & Zavodny ©2015

## Immigration push and pull factors

#### **Push factors**

Economic High unemployment Poverty High taxes Poor health care Overpopulation



#### Other

Natural disaster Famine Climate change

#### **Pull factors**

Economic Demand for labor High wages Strong economic growth Opportunity for advancement Schooling Technology Generous welfare benefits Low cost of living

Political and social Family and friends Rights and freedoms Law and order Safety

#### Other Amenities

The Economics of Immigration, by Bansak, Simpson & Zavodny ©2015

#### **Source Country**

#### "Push" Factors

famine poverty low wages unemployment overpopulation high taxes discrimination religious persecution civil war violence and crime forced military service social immobility

#### "Stay" factors

family ties friendships social status cultural familiarity employment property familiarity certainty political privileges

#### **Costs of Moving**

transport costs dangers of the voyage time of travel lost income during move

#### Formal Exit Barriers

#### **Formal Entry Barriers**

Exit Visa ExitTax Prohibition Imprisonment Penalties on Family

Entry Visa Quota Prohibition Imprisonment Fines

#### **Destination Country**

#### "Pull" factors

high wages employment property rights personal freedom economic freedom law and order peace religious freedom educational opportunity social mobility low taxes family reunion

#### "Stay away" factors

language barriers cultural barriers discrimination low social status unemployment low wages lack of political rights unfamiliarity uncertainty war crime



## Roy-Borjas Model – Selection of immigrants

- Roy (OEP 1951); Borjas (AER 1987)
- Consider two countries, A and B
  - Identical mean earnings
  - Different income distributions: returns to human capital higher in A
- Individual returns to migration depend on one's skills
- In which country can skilled workers earn more? Migration patterns:
  - Skilled migration to A and unskilled migration to B

## The Self-Selection of the immigrant

Frequency



Skills

If immigrants have above-average skills, the immigrant flow is positively selected. If immigrants have below-average skills, the immigrant flow is negatively selected.





The *Roy model* of migration illustrates the self-selection of migrants on skill. How can you describe the migration motives of the low-skilled workers?

- 1. Low-skilled workers prefer to migrate to a country with higher income inequality.
- 2. Low-skilled workers prefer to migrate to a country with the more compressed income distribution (and lower income inequality).
- 3. Low-skilled workers prefer to migrate to a neighbouring country to minimize travelling costs.
- 4. There are no economic incentives to migration for low-skilled workers.

## Migration between Puerto Rico and the US

 Puerto Ricans can move freely to the US without the legal restrictions. About 10% of the population born outside PR during 1970-2000.





0

0.25

Source: George J. Borjas, "Labor Outflows and Labor Inflows in Puerto Rico," Journal of Human Capital 2 (Spring 2008): 32-68.

 Return to skills is much higher in PR than in the US. The patterns of migration can be understood with Roy model – relative payoffs for skills across countries determine the skill composition of the immigrant flow.

 TABLE 8-3
 Labor Flows in and out of Puerto Rico in 2000 (in the sample of working-aged men)

Source: George J. Borjas, "Labor Outflows and Labor Inflows in Puerto Rico," Journal of Human Capital 2 (Spring 2008): 32-68.

Years of Education	Fraction of Puerto Ricans That Moved to the United States	Fraction of U.SBorn Persons with Puerto Rican Ancestry That Moved to Puerto Rico
Less than 12 years	0.447	0.069
12 years	0.401	0.086
13–15 years	0.364	0.121
At least 16 years	0.304	0.189

## **Migration flows**

The international migrant population globally has increased in size but remained relatively stable as a proportion of the world's population

The number of people living in a country other than where they were born



Source: World Migration Report 2020

Migrants in 2019:

1 in every 30 people 48 % are females 14 % are children 74% are of working age 20-64 60 % are migrant workers 2 % are students 10 % are refugees 15% are displaced (BD, MM)

In last 5 years, more than 30,900 have died before trying to reach other country.



## Number of International Migrants in 2017



#### Top 20 world destinations (left) and origins (right) of international migrants in 2019 (millions)



## Legal barriers to mobility

- In medieval Europe (feudalism) serfs were prohibited to move without lord's consent
- Barriers to internal migration in Czarist Russia and the USSR
- China's internal passport system ("Hukou")
- State specific occupational licensing laws act as barriers to internal migration in the US
- Visa

### PROTECT YOURSELF FROM POSSIBLY BUT PROBABLY NOT UNQUALIFIED PROFESSIONALS

PARKING LOT

ATTENDANT

#### TELEPHONE SALESPERSON



Occupation licensing is a legal requirement in order to practice a profession

In the US in 1970s, about 10 percent of workers had to have licenses, but by 2008, almost 30 percent of the work force needed them.

Louisiana, requires licenses for florists, math teachers need to be relicensed every time they move from one state to another.

Workers with licenses must pay upfront costs and face limited geographic mobility.

https://www.nytimes.com/2014/05/29/opinion/whylicense-a-florist.html In the craft and related occupations, the proportion of licensed workers is 38% in Germany and 7% in Spain, while the average proportion of licensed workers at the state level is 33 and 17%



The prevalence of licensing varies significantly across member states: ranging between 14% in Denmark and 33% in Germany

Occupational licensing is least common in managerial occupations (e.g., managers, executives) and elementary occupations (e.g., food preparation, cleaners) and most common among plant and machine operators, technicians (e.g., electricians), and professionals (e.g., lawyers).

Pagliero, 2019 (https://link.springer.com/article/10.1007/s11151-019-09711-8)



Changes in immigration regimes in 22 Western liberal states Source: Hass et al. 2016

Over the past 70 years, immigration regimes (in Western countries) have been heavily concentrated on border control and more recently on exit and return measures (e.g. deportation). Policies have become more targeted on specific migrant groups providing multiple entry channels for low and high-skilled workers, permanent and temporary migrants, family members, students, entrepreneurs, and asylum seekers. Governments have liberalised entry for 'wanted' migrants, while policies have become more restrictive to prevent the entry and (irregular) stay of 'unwanted' migrants.





## REMITTANCES

## REMITTANCES

- Financial or in-kind transfers made by migrants directly to families or communities in their countries of origin.
- Official estimates (by World Bank) on the scale of remittances are likely underestimated.
- Globally, remittances are now more than three times the amount of official development assistance.
- The biggest beneficents are middle income countries.

## 706 billions USD Estimated volume of remittances sent by migrants in 2019 (up from 126 billion in 2000).

#### Remittance flows to Low- and Middle-Income countries (excluding China) are now larger than FDI and Development Assistance



*FDI* = foreign direct investment. *ODA* = Official Development Assistance; Data for 2018 are estimates and data for 2019 are forecasts Source: Global Knowledge Partnership on Migration and Development (KNOMAD)

Officially recorded remittances to developing countries amounted to a record \$550 billion in 2019.

# Remittance Flows dropped during the pandemic

Remittances to Low- and Middle-Income Countries (LMIC) are expected to grow by 1.4 percent to reach \$656 billion in 2023, following a very strong 8 percent growth in 2022 and 10.6 percent in 2021.

## Remittances

- Moneys sent back home by immigrants (why?)
- Large inflows, esp. for developing countries
- Macroeconomic effects of remittances:
  - economic growth
  - employment
  - prices
  - exchange rate
- High remittances may create dependency, increase local prices, appreciate exchange rate

## Microeconomic effects of remittances

- Remittances go directly to households in emigrants' home countries
- Reduce poverty and increase consumption
- Allow higher spending on education and health care, hence better life for children and people
- Help starting a small business (investment)
- Facilitate the return of migrants



FIGURE 1.3. Top Remittance Receivers in 2017

*Sources:* International Monetary Fund; World Bank's World Development Indicators; staff estimates. *Note:* GDP = gross domestic product. World bank monitors the cost of international remittance services since 2008 when the cost to send money was 10%. **G20 set a target to reduce costs to 5%.** <u>Sustainable Development Goal (SDG) 10.c.1 aims to reduce this cost to 3% on average by 2030.</u> Faster adoption of digital financial services, which make remittances cheaper and more convenient, should be a priority.

#### Figure 1 Trends in the global cost of sending \$200 in remittances<sup>3</sup>



Cash Digital Digital https://remittanceprices.worldbank.org/

Global Average

#### CELEBRATING THE 1st International Day of Family Remittances

( WORLD BANK GROUP



## Social remittances

- In addition to money, migration leads to the circulation of ideas, practices, skills, identities, and social capital.
- Research shows how emigrants influence social protests, elections, and calls for greater transparency or reform.
- Migration may affect traditional gender norms

# Which one is the push-factor of migration?

- A. Average income
- B. Ethnic conflict
- C. Democracy
- D. Unemployment benefits

## Why do people migrate most?

- A. For work, family reasons and better living
- B. For political reasons
- C. For education
- D. All of above

## Reading



- Chapter 2 Why People Become Immigrants
- Chapter 3 Where Immigrants go