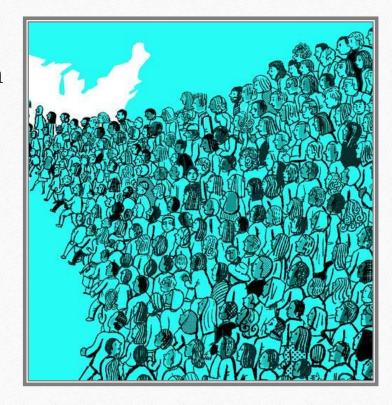






### Motivation

- The US is the top receiver of migration flows in the world.
- In 2017, the total international migrant population in the US was 49 million.
- We are interested in understanding the primary reasons why immigrants choose to settle in the US.











### Questions

- 1. Why are people choosing to live in the United States? Is it because they seeking economic opportunity or are they fleeing violence in their home country?
- 2. How has US immigration policy impacted the rate of LPR issuance over the past 3 administrations?
- 3. Which major regions are migrants coming from? Are they coming from the Middle East and/or Central America?
- 4. What are the trends of migration to the US based on Age and Gender?
- 5. How has US migration trends changed over the past two and a half decades?









## Summary

- LPR recipients mainly come from Asia (China and India) and Latin America and the Caribbean. (Mexico and the DR).
- Most migrants coming to the US over the past two and a half decades fall into the work age range (25-39 years old).
- Over the last two and a half decades more men and women are arriving to the US. However, the difference between men and women is 33%.
- Countries that have higher income, have lower migration flows to the US.
- Countries that have higher homicide counts, have higher migration flows to the US.









## Data and Exploration

#### • For trends:

 Migration Policy Institute LPR grants and UN migration flows towards the U.S.

#### For model:

- IMF World Economic Outlook Database for GDP per capita and Population
- CEPII for Distance
- UN Office on Drugs and Crime for homicides

#### • What we did:

- Analyzed annual trends across regions, gender and age
- Compared the number of individuals with Lawful Permanent Residence (LPR) status at the start of the Bush, Obama, and Trump administrations to see how politics affected US immigration policy
- Measured the economic significance of per capita income and homicides on immigration flows

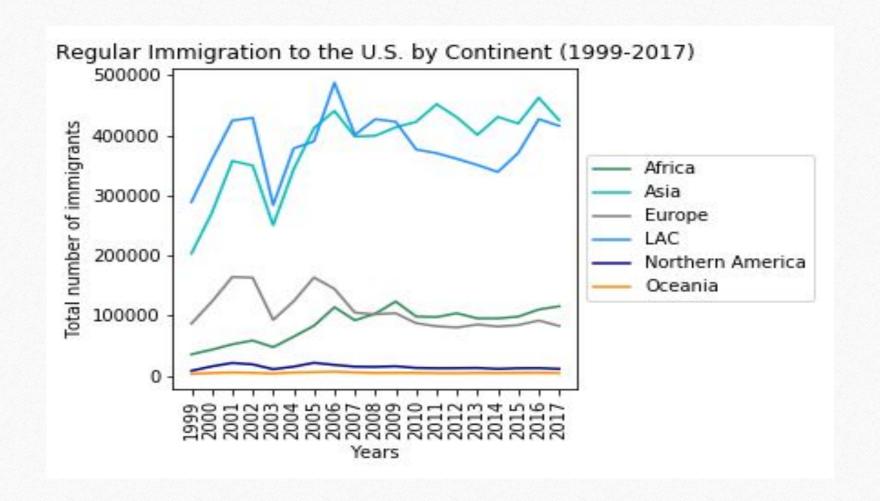








### Who were granted LPR status between 1999 and 2017?



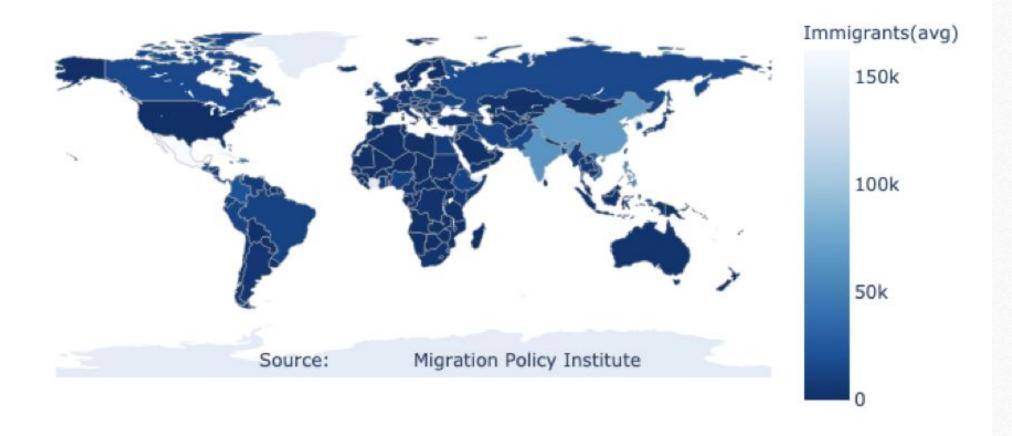








### Immigrants by country of Origin (1999-2017)



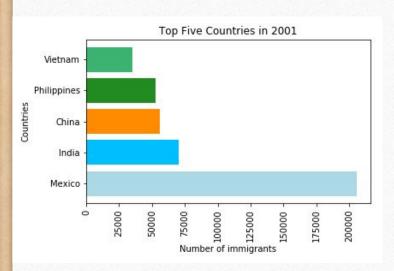


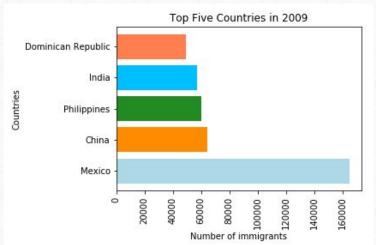


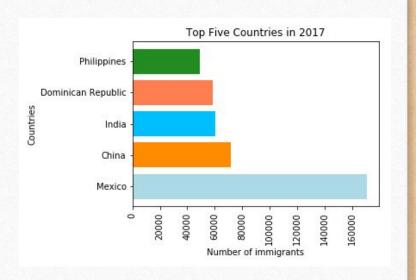




# Top Five Countries







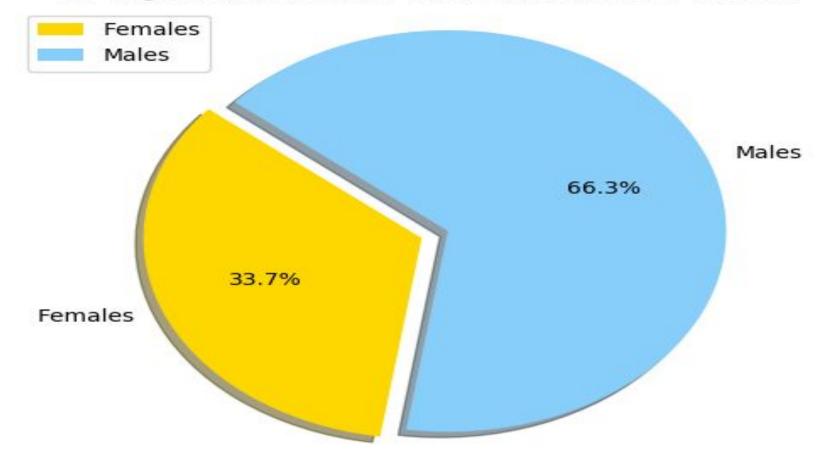








#### US Migration Male and Female % from 1990 to 2017

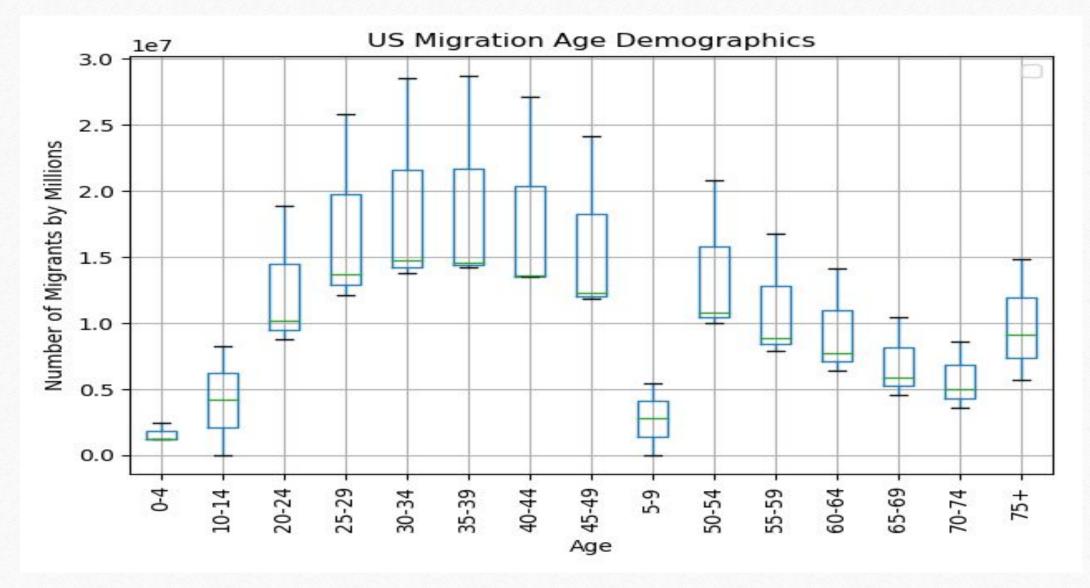










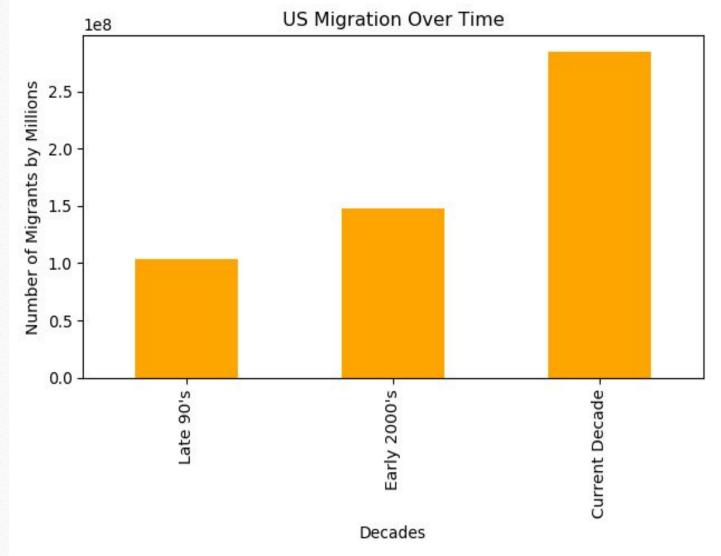












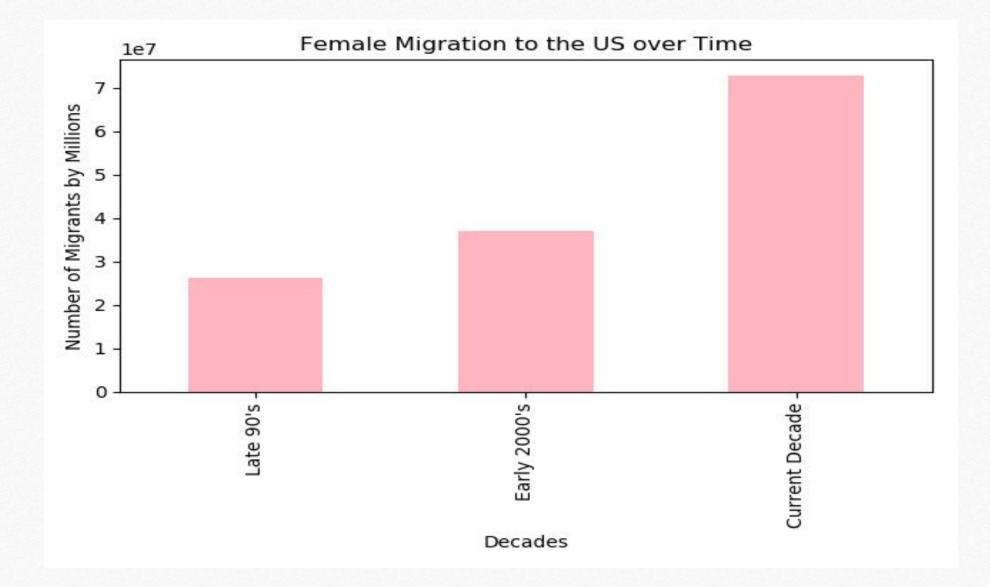
How has Migration to the United States changed over time?









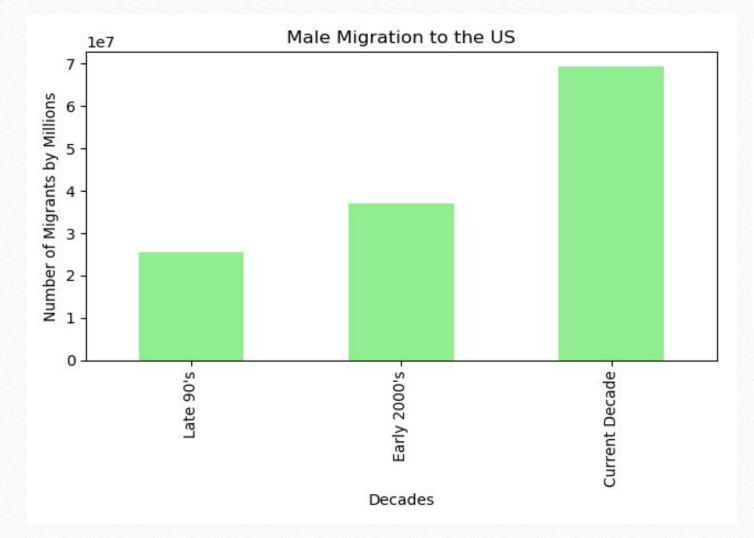


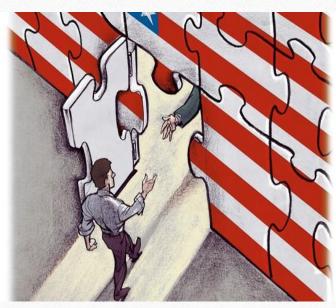












Male migration to the US has more than doubled since the late 90's

Male migration to the US has been consistent over the









# Hypothesis Test

- H0: The difference in per capita income and homicide counts in origin country does not affect immigration flows to the US.
- HA: The difference in per capita income and homicide counts in origin country affects immigration flows to the US.









## Model Specification

Inflows<sub>i,t</sub> =  $\alpha + \beta_1 * GDP$  per capita<sub>i,t</sub> +  $\beta_2 * Homicides_{i,t} + \beta_3 * Population_{i,t} + \beta_4 * Distance_{i,t} + \epsilon_{i,t}$ 

#### Dependent variable

• Natural log of the number of individuals that were granted Lawful Permanent Residence status (LPRs) by country of origin

#### Explanatory variables

- Difference between the natural log of GDP per capita in origin country and that of the US
- Difference between the natural log of Homicide counts in origin country and that of the US

#### Control variables

- Difference between the natural log of population in origin country and that of the US
- Natural log of the distance between origin country and the US







		Ln Inflows	R-squared: Adj. R-squared:			0.536
		OLS				0.535
		Least Squares	F-statistic: Prob (F-statistic):			554.1 0.00
		, 26 Jul 2019				
Time:		18:54:33		Log-Likelihood:		-3921.0
No. Observations:		2274	AIC:			7852.
Df Residuals:		2269	BIC:			7881.
Df Model:		4				
Covariance Ty	pe:	нсз				
	coef	std err	z	P>   z	[0.025	0.975
const	17.9102	0.923	19.394	0.000	16.100	19.72
DIncome	-0.0566	0.025	-2.227	0.026	-0.106	-0.00
DHomicides	0.2355	0.030	7.886	0.000	0.177	0.294
DPop	0.4591	0.038	12.053	0.000	0.384	0.534
Ln_Distance	-0.9128	0.097	-9.386	0.000		-0.72
Omnibus:		560.242	Durbin-Watson:			0.218
Prob(Omnibus):		0.000	Jarque-Bera (JB):			2120.037
Skew:		-1.169	Prob(JB):		0.00	

Warnings:

Kurtosis:

[1] Standard Errors are heteroscedasticity robust (HC3)

7.113

Cond. No.





198.





# Measuring Economic Significance

### • GDP per capita

• All else equal, a one-standard deviation increase in the income gap will decrease immigration flows to the US by 7%

#### Homicides

• All else equal, a one-standard deviation increase in the homicide gap will increase immigration flows to the US by 41%

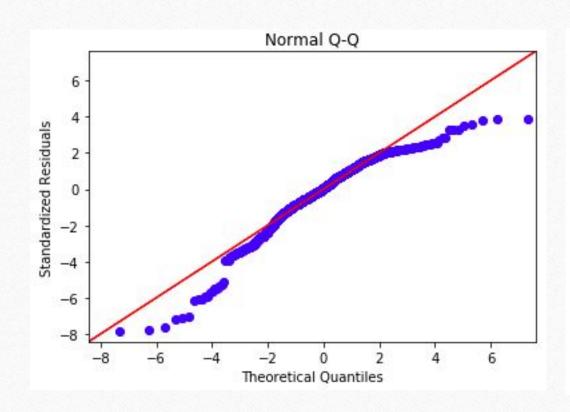


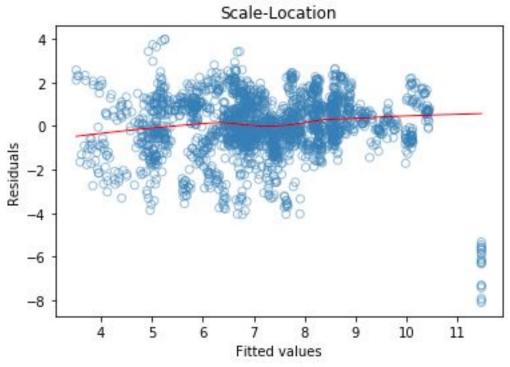






# Model Diagnostics













### Post Mortem

### Data

- Data availability for individuals with irregular migration status
- Poor data coverage for homicide counts
- Finding long enough time series on total migration inflows
- Finding universal country codes

### **GitHub**

• Using GitHub to make revisions and sharing data









## Next Steps

- What about people who did not make it? Analyzing patterns for missing migrants.
- Using broader measure of migration, i.e. irregular migrants, asylum seekers, and LPRs
- Controlling for other factors such as environmental catastrophes as a driver for migration









### Questions?





