

Push or Pull: The Influence of ICT on Emigration Flows

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Presentation Outline

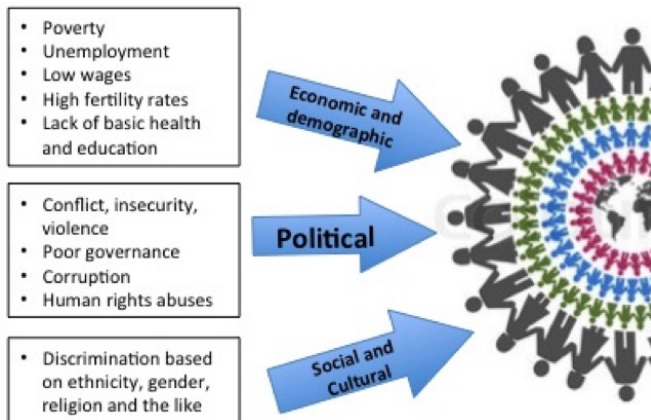
- Research Question
- Theoretical Framework
- Methodology
- Descriptive Statistics
- Results
- Conclusion & Limitations

Motivation & Research Question

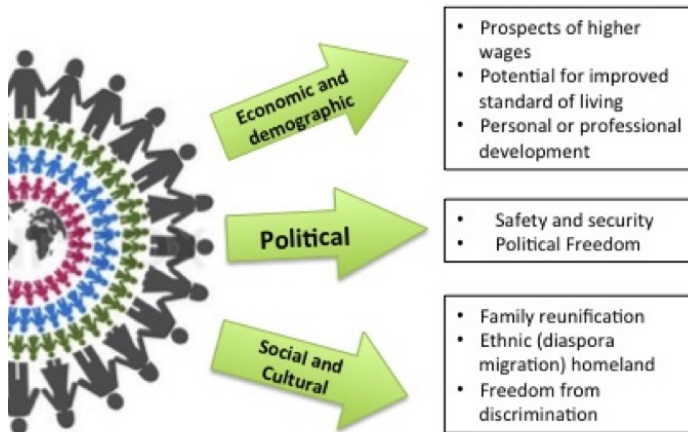
- 1 Computer mediated communication has created new possibilities for migrants to maintain strong linkages and ties with their home nations (Hiller, 2004)
- 2 Historical development of ICTs. Explore the time dimension in a panel data.
- 3 “With growing access to ICTs and the current state of mobility of people around the world, it easy to imagine that there exist relationships between access and sharing of information and the outcomes of migration” (Hamel, 2009)

Research Questions: Has the increase use of technologies, such as the Internet and mobile phones affected the flows of emigration?

Theoretical Framework - Push Factors



Theoretical Framework - Pull Factors



Methodology

Model 1: Cellphone Users

$$\frac{I_{Migration}}{Poptotal} = \beta_0 + \beta_1 Cell + \beta_2 FertRate + \beta_3 PoliStab + \beta_4 EmployProb + \epsilon_{it}$$

Model 2: Internet Users

$$\frac{I_{Migration}}{Poptotal} = \beta_0 + \beta_1 Net + \beta_2 FertRate + \beta_3 PoliStab + \beta_4 EmployProb + \epsilon_{it}$$

Datasets:

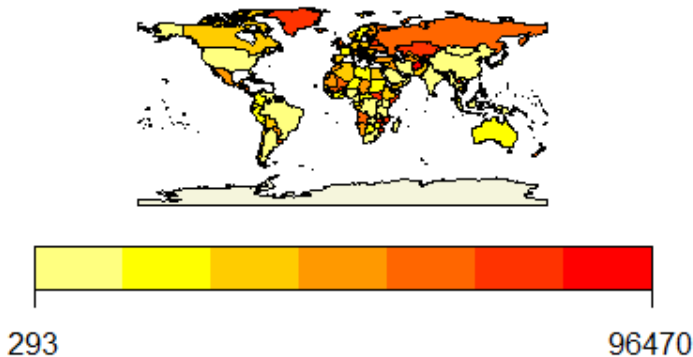
- UN Migration Stock 1990-2013 and World Bank Indicators

Methodology:

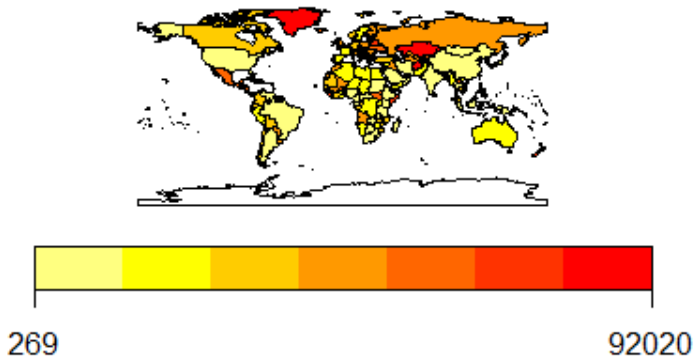
- Panel regression with fixed effects

Descriptive Statistics

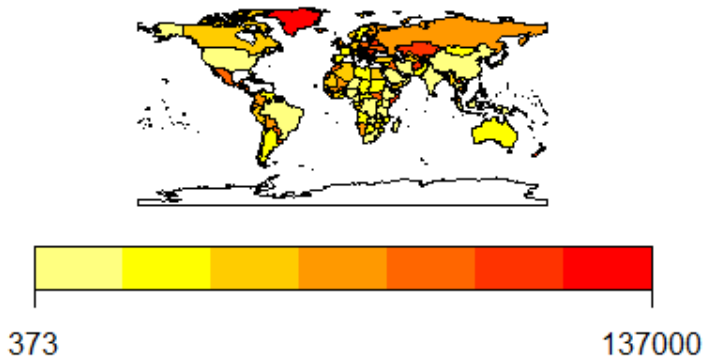
Number of emigrants per capita 1990



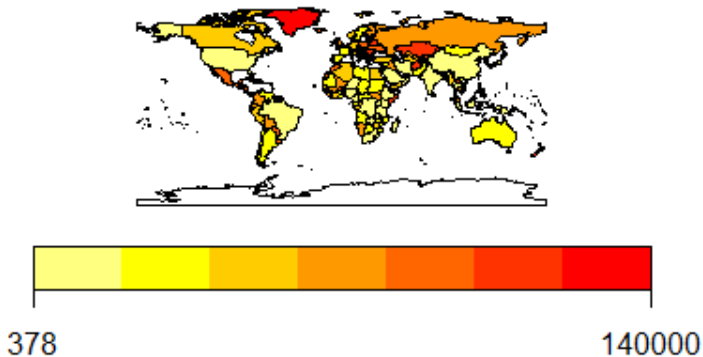
Number of emigrants per capita 2000



Number of emigrants per capita 2010



Number of emigrants per capita 2013



Results: Model 1, Cellphone Users as proxy

Table 1:Fixed effects regression

	<i>Dependent variable:</i>
	logmigrationpercap
CellphoneUsers	0.001*** (0.0002)
FertilityRate	0.040 (0.032)
PoliticalStability	−0.059** (0.029)
logGDPPerCapita	0.015*** (0.005)

Results: Model 2, Internet Users as proxy

Table 2:Fixed effects regression

	<i>Dependent variable:</i>
	logemigrationpercap
InternetUsers	0.002*** (0.001)
FertilityRate	−0.010 (0.030)
PoliticalStability	−0.062** (0.029)
logGDPPERcapita	0.020*** (0.005)

Conclusion & Limitations

- Panel regression using within, between, pools estimators were used when analyzing the
- The results show that cellphone /or Internet usage is significant to explain the change in immigration inside a country.
- The more technology is introduced in the country, the more it will incentivize or “push” migration out of the country.
- This suggests that the technological differences across the countries are not a relevant factor to explain immigration across countries.
- Fixed model eliminates variables that are constant in time such as Distance, Common language, colonialism, Border.