

Have ICT changed the game for mobility and migration?

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5.2 Emperical Strategy

Emperical Methods

Descriptive Statistics

Dependent Variables

Summary

Patterns of Emmigration

Figure 4 Number of emigrants per cap 2000

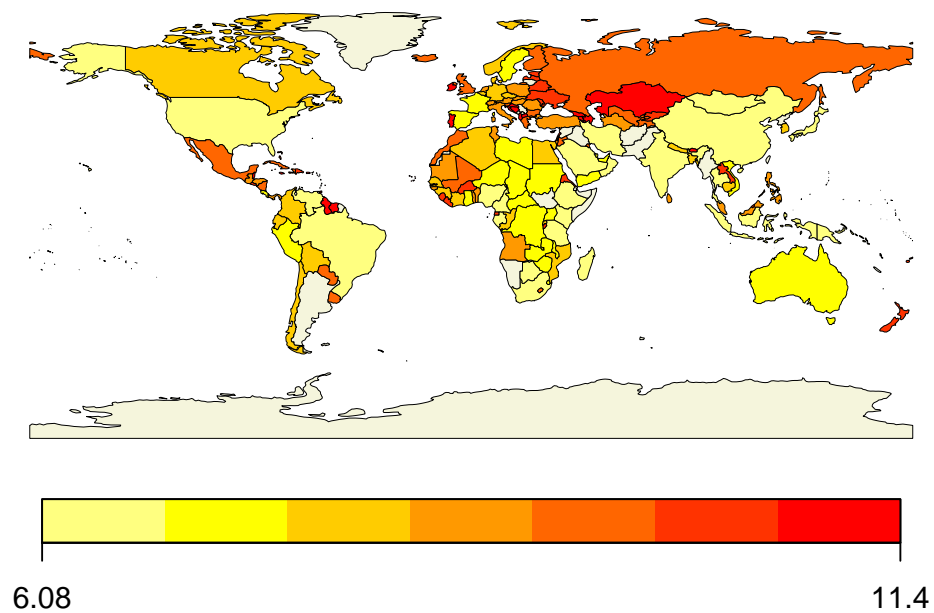


Figure 5. Number of emigrants per capita 2010

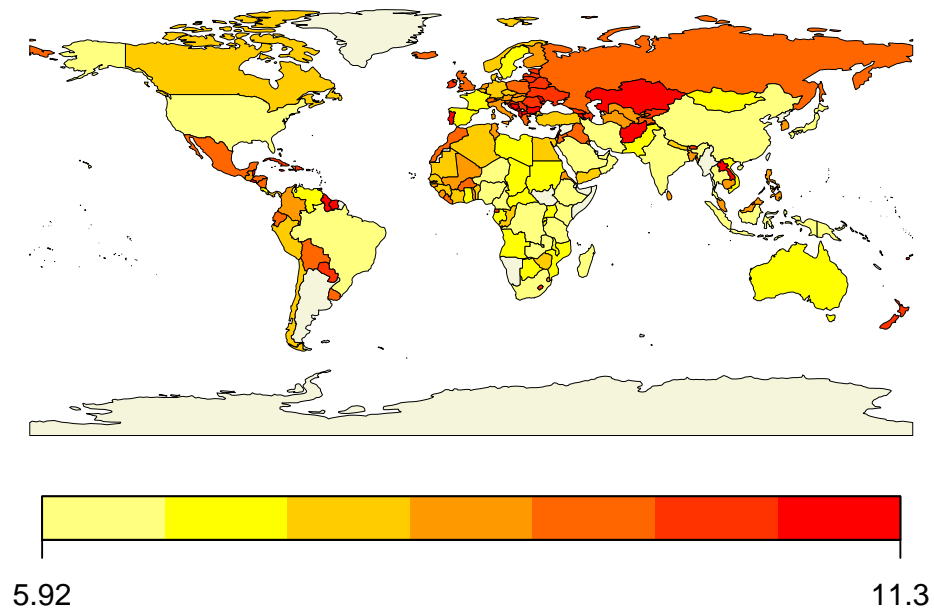
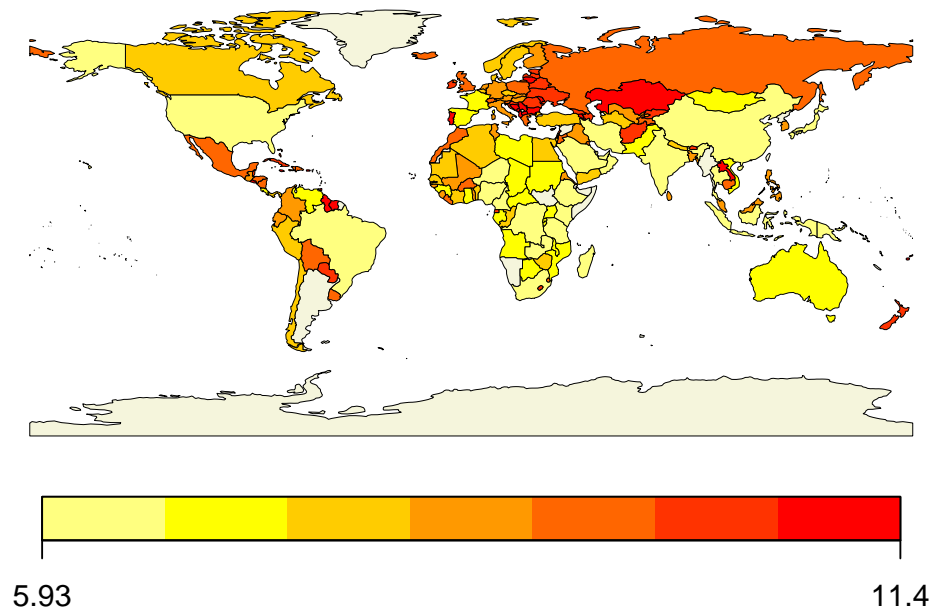


Figure 6. Number of emigrants per capita 2013



Independent Variables

Results

Table 1: Table 1 Panel Regression of emigration rate using Cellphone Users

	Emigration rate per cap (log)					
	logemigrationpercap					
	(1)	(2)	(3)	(4)	(5)	(6)
CellphoneUsers	0.0012*** (0.0002)	0.0011*** (0.0002)	0.0011*** (0.0002)	0.0012*** (0.0002)	0.0008* (0.0004)	0.0059*** (0.0019)
logGDPpp-1					0.0781 (0.0572)	0.0576 (0.0571)
Fertility Rate				0.0395 (0.0325)	0.0451 (0.0327)	0.0826** (0.0352)
Political Stability			-0.0615** (0.0288)	-0.0591** (0.0288)	-0.0698** (0.0298)	-0.0717** (0.0296)
Employment prob		1.3560*** (0.4640)	1.5410*** (0.4696)	1.4784*** (0.4721)	1.4353*** (0.4725)	1.3306*** (0.4695)
CellphoneUsersXlogGDPpp-1						-0.0005*** (0.0002)
Observations	498	498	498	498	498	498
R ²	0.0989	0.1219	0.1339	0.1379	0.1428	0.1620
Adjusted R ²	0.0652	0.0800	0.0877	0.0900	0.0929	0.1051

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 3. Yearly regressions

Limitations and Further Research

References

Appendix

Table 2: Table 2 Panel Regression of emigration rate using Internet Users

	Emigration rate per cap (log)					
	logemigrationpercap					
	(1)	(2)	(3)	(4)	(5)	(6)
InternetUsers	0.0022*** (0.0005)	0.0022*** (0.0005)	0.0021*** (0.0005)	0.0020*** (0.0005)	0.0003 (0.0008)	0.0246*** (0.0065)
logGDPpp-1					0.1555*** (0.0510)	0.0941* (0.0525)
Fertility Rate				-0.0102 (0.0300)	0.0315 (0.0326)	0.0519 (0.0324)
Political Stability			-0.0610** (0.0293)	-0.0615** (0.0294)	-0.0826*** (0.0298)	-0.0851*** (0.0292)
Employment prob		1.8370*** (0.4620)	2.0092*** (0.4670)	2.0091*** (0.4676)	1.5465*** (0.4860)	1.5449*** (0.4762)
InternetUsersXlogGDPpp-1						-0.0023*** (0.0006)
Observations	498	498	498	498	498	498
R ²	0.0521	0.0959	0.1077	0.1081	0.1330	0.1701
Adjusted R ²	0.0343	0.0629	0.0705	0.0705	0.0865	0.1103

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 3: Yearly OLS Regression of emigration

	Emigration rate per cap (log)					
	logemigrationpercap					
	2000 (1)	2010 (2)	2013 (3)	2000 (4)	2010 (5)	2013 (6)
CellphoneUsers	0.0108 (0.0857)	0.0263 (0.0166)	0.0111 (0.0138)			
InternetUsers				0.1528 (0.1750)	0.1069** (0.0424)	0.0758** (0.0331)
logGDPpp-1	-0.1305 (0.1415)	-0.0817 (0.1838)	-0.1820 (0.1815)	-0.0572 (0.1320)	-0.0917 (0.1465)	-0.1253 (0.1626)
Fertility Rate	-0.2215*** (0.0783)	-0.2732*** (0.0875)	-0.3447*** (0.0910)	-0.2016*** (0.0771)	-0.2029** (0.0944)	-0.2489** (0.1000)
Political Stability	0.0569 (0.1272)	0.1687 (0.1047)	0.1619 (0.1057)	0.0936 (0.1286)	0.2044* (0.1085)	0.2035* (0.1098)
Employment prob	-1.3258 (1.4697)	-3.3622** (1.3842)	-3.8563*** (1.3247)	-0.7432 (1.4475)	-2.6571* (1.4255)	-3.0844** (1.3515)
CellphoneUsersXlogGDPpp-1	-0.0012 (0.0084)	-0.0026 (0.0017)	-0.0010 (0.0014)			
InternetUsersXlogGDPpp-1				-0.0163 (0.0172)	-0.0102** (0.0041)	-0.0071** (0.0032)
Constant	11.6176*** (2.0009)	13.1017*** (2.3398)	14.7094*** (2.3239)	10.4509*** (1.9072)	12.3324*** (2.1692)	13.1255*** (2.1946)
Observations	159	169	169	159	169	169
R ²	0.0886	0.1905	0.2020	0.1033	0.2082	0.2239
Adjusted R ²	0.0526	0.1605	0.1725	0.0679	0.1789	0.1952

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 4: Panel Regressions fro cellphoneUsers using all models

	Emigration rate per cap (log)			
	Pool OLS	logemigrationpercap		Random
		Within	Between	
	(1)	(2)	(3)	(4)
CellphoneUsers	0.0078 (0.0069)	0.0059*** (0.0019)	0.0136 (0.0218)	0.0038** (0.0018)
logGDPpp-1	-0.2037** (0.0831)	0.0576 (0.0571)	-0.1795 (0.1850)	0.0908* (0.0495)
Fertility Rate	-0.2796*** (0.0464)	0.0826** (0.0352)	-0.2955*** (0.0862)	0.0025 (0.0316)
Political Stability	0.1285** (0.0626)	-0.0717** (0.0296)	0.1488 (0.1158)	-0.0519* (0.0297)
Employment prob	-3.0873*** (0.7695)	1.3306*** (0.4695)	-3.5051** (1.4336)	0.7886* (0.4604)
CellphoneUsersXlogGDPpp-1	-0.0006 (0.0007)	-0.0005*** (0.0002)	-0.0013 (0.0022)	-0.0003* (0.0002)
Constant	14.0010*** (1.0867)		14.2756*** (2.3785)	7.0251*** (0.6063)
Observations	498	498	169	498
R ²	0.1506	0.1620	0.1664	0.1300
Adjusted R ²	0.1485	0.1051	0.1595	0.1282

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 5: Panel Regressions for InternetUsers using all models

	Emigration rate per cap (log)			
	Pool OLS	logemigrationpercap		Random
		Within	Between	
	(1)	(2)	(3)	(4)
InternetUsers	0.0722*** (0.0209)	0.0246*** (0.0065)	0.1073* (0.0557)	0.0236*** (0.0062)
logGDPpp-1	-0.1538** (0.0763)	0.0941* (0.0525)	-0.1310 (0.1565)	0.0934* (0.0480)
Fertility Rate	-0.2324*** (0.0479)	0.0519 (0.0324)	-0.2130** (0.0959)	-0.0067 (0.0305)
Political Stability	0.1480** (0.0627)	-0.0851*** (0.0292)	0.1769 (0.1221)	-0.0602** (0.0291)
Employment prob	-2.6174*** (0.7769)	1.5449*** (0.4762)	-2.7278* (1.4850)	0.9200** (0.4603)
CellphoneUsersXlogGDPpp-1	-0.0067*** (0.0020)	-0.0023*** (0.0006)	-0.0101* (0.0053)	-0.0022*** (0.0006)
Constant	12.9627*** (1.0725)		12.7544*** (2.2911)	6.9146*** (0.5478)
Observations	498	498	169	498
R ²	0.1666	0.1701	0.1833	0.1444
Adjusted R ²	0.1643	0.1103	0.1757	0.1423

Note:

*p<0.1; **p<0.05; ***p<0.01