Theories of international migration

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TEXAS A&M

International migration

- Influenced especially by opportunity structures in place of origin and desired place of destination
- Important processes include
- Step migration
 - From rural to town to city to another country
- Chain migration
 - Pioneer migrants get established and then are followed by family and friends

Limitations of migration theory

- Immigration theory has sought to understand
 - Fundamental forces driving migration
 - How social networks, community normative expectations, and household strategies affect structural determinants (political, economic...)
- Migration theories and concepts arose from a historical experience, but they are flawed due to
 - Stereotypical characteristics of immigrant groups
 - Too much emphasis and focus on superficial aspects of adaptation (language, cultural habits)

Misconceptions

- Four misconceptions about developing immigration theory
 - Theories do not grow additively
 - Theories do not necessarily correspond to people's perception
 - Typologies are not theories
 - There is no overall encompassing theory of immigration

Theories do not grow additively

- Accumulation of evidence does not lead to theoretical developments and innovation
 - Innovation does occur if accumulated evidence requires new explanation and pre-existing theory cannot make sense of some piece of accumulated evidence
- Researcher need to be able to identify contradictions and single them out for analysis
- Theoretical insights require that we gain some distance from reality, in order to identify patterns
- Excessive empirical analyses (data-driven field) makes it harder to generate theories capable of generalization

Theories are not perceptions

- People's subjective orientation are certainly important and represent a legitimate field or study
 - However, unless a theory specifically refers to these perceptions, it is improper to make them a standard of evaluation
 - A theory is useful if it can explain and predict immigrant patterns of economic adaptation, residential settlement, and relationships with the native population
- Theoretical progress is stalled when
 - Individual case is presented as contradicting general propositions (case study cannot invalidate a general theory)
 - Measurement and sample selection fit the theory awkwardly, but the researcher still draws conclusion about its validity
 - Migration is data driven and equal attention has not been given to theory and concepts

Typologies are not theories

- Typologies might specify concepts and differentiate groups of people
 - However, they do not amount to a theoretical statement because they simply assert differences without specifying their origins or anticipating their consequences
 - Typologies are valid intellectual exercises, but they are not theories
- A theory must have four elements
 - Delimitation and description of some area of reality
 - Identification and definition of a process or characteristic to be explained (dependent variable)
 - One or more explanatory factors (independent variables) and their types of effects (additive or interactive)
 - Logical link to at least one other similar proposition

There is no overall theory

- The different areas of migration are too disparate to be unified into one theory
- The macrostructural and microstructural levels of migration should not be unified under one theory
- Portes argues for building a middle-range theory in four areas
 - The origins of migration
 - Direction and continuity of migration flows
 - Utilization of immigrant labor
 - Sociocultural and adaptation of immigrants

TABLE I.I: MIGRATION THEORIES ACROSS DISCIPLINES

Discipline	Research Question(s)	Levels/Units of Analysis	Dominant Theories	Sample Hypothesis
Anthropology	How does migration effect cultural change and affect cultural identity?	Micro/individuals, households, groups	Relational or structuralist and transnational	Social networks help maintain cultural difference.
Demography	To what extent do immigrant and native populations become more similar over time?	Individuals, immigrant groups, ethnoracial groups, national foreign-born populations	Theories of migration (cost/benefit and structural; theories in integration (assimilation and pluralist-based); theories of migration effects (economic, social structural, and cultural)	Immigrants will not become successfully integrated when they experience significant membership exclusion.
Economics	What explains the propensity to migrate and its effects?	Micro/individuals	Rationalist: cost-benefit and utility maximizing behavior	Incorporation varies with the level of human capital of immigrants.
Geography	What explains the socio-spatial patterns of migration?	Macro, meso and micro/individuals, households and groups	Relational, structural, and transnational	Incorporation depends on ethnic networks and residential patterns.
History	How has a phenomenon (e.g. causes, structures, processes, consequences of migration) or a relationship (e.g. gender and migration) changed or persisted over time?	Varies temporally (from short-to medium and long-term) as well as spatially	Periodization	Usually not applicable.
Law	How does the law influence migration?	Macro and micro/the political and legal system	Institutionalist and rationalist (borrows from all the social sciences)	Rights create incentive structures for migration and incorporation.
Political science	Why do states have difficulty controlling migration?	More macro/political and international systems	Institutionalist and rationalist	States are often captured by pro- immigrant interests.
Sociology	What explains incorporation and exclusion?	Macro/ethnic groups and social class	Structuralist or institutionalist	Incorporation varies with social and human capital.

TABLE 1.2: MODELING MIGRANT BEHAVIOR AND ITS EFFECTS

Discipline	Dependent Variables	Independent Variables
Anthropology	Migrant behavior and migrant identities, gender relations (emigration, integration)	Social and cultural context, transnational networks
Demography	Sizes of migration flows, degree of integration for individuals and groups, societal cohesion	Kinds of migration policies, contexts of reception, ethnoracial diversity
Economics	Migrant flows and adjustment and macroeconomic impact	Wage/income differentials, demand- pull/supply-push, human capital, factor proportions, structure of the economy and transfer systems
Geography	Migrant decision making	Spatial, environmental, political, cultural, and socioeconomic contexts
History	Migrant experience	Social/historical context
Law	Legal, political, social, and economic treatment of migrants	Law or policy
Political science	Policy outputs (admissionist or restrictionist); policy outcomes (control); political incorporation and civic engagement	Institutions, rights, Interests
Sociology	Migrant behavior (immigration and incorporation)	Networks, enclaves, social capital

Migration framework

- Build framework to better understand resurgence of immigration into North America, primarily after 1945
- Evaluate theories that account for the initiation of international migration
- Consider theories that explain persistence and transnational movements across time and space
- Reconsider the current state of theoretical knowledge in light of the available empirical evidence
- Specify the kinds of studies and data that would be needed to address the theoretical questions and conceptual ideas
- Offer a preliminary synthesis of the theories reviewed

Initiation of international migration

- Neoclassical economics
 - Supply-demand framework
- The new household economics of migration
 - Diversify income sources: remittances
- Segmented labor market theory (demand-driven)
 - Primary sector: well-educated, good salary, benefits
 - Secondary sector: low wages, unstable, usually rejected by natives
- World systems theory
 - Peripheral countries are most likely to send migrants to core nations

Neoclassical economics

- Differential wage gaps between countries of origin and destination do contribute to international movement
- Wage gaps do not fully explain international migration nor do they seem to be the most important factor in determining migration decisions

New economics of migration

- Poor households do use international migration to diversify their labor portfolios and to minimize financial risk in the sending regions
- Remittances from foreign settings raise household income in sending regions by more than the value of the remittances themselves
- However, the new economics model does not fully explain international movement but merely complements the neoclassical model

Segmented labor market theory

- U.S. labor markets are segmented
- Immigrants are selectively excluded from the primary labor market and found disproportionately in the secondary labor market
- However, it is not clear that labor market segmentation explains all or even most of the demand for immigrants
- Dual labor market theory complements rather than supplants the neoclassical and new economics theories

World systems theory

- Available evidence does suggest that indicators of capitalist market penetration are instruments in initiating migratory flows
 - Industrialization, agricultural development, direct foreign investment, U.S. military base
- However, its theoretical propositions have not received sufficient analytical attention
- It is difficult to draw conclusions about the explanatory power of world systems theory

Continuation of migration

(Massey et al. 1994; Massey, Espinosa 1997)

- Network theory
 - Migrants establish interpersonal ties
 - Once started, migration sustains itself through diffusion
- Institutional theory
 - Institutions facilitate or profit from the continued flow of migrants
 - Organizations help perpetuate migration in the face of government attempts to limit the flow of migrants
- Cumulative causation
 - Migration has an impact on social environments of sending and receiving regions

Network theory

- Social capital refers to potential value that exists in social relationships between people
 - Among people considering a trip to the U.S., ties to current or former U.S. migrants represent a valuable social asset since these connections can be used to acquire information and assistance that reduce the costs and risks of entering the U.S. and raise the odds of getting a good job
- Even after controlling for predictors of neoclassical and new economics variables, network connections strongly predict the likelihood of international migration
- More research on non-Mexican samples is needed to confirm and generalize these findings

Cumulative causation

- Empirical evidence shows that people who migrate are likely to migrate again
- International migration perpetuates itself, regardless of the conditions that originally caused it
- Evidence from Mexico indicates support for cumulative causation through changes in income distribution and land inequality in sending regions
- However, theory involving networks and cumulative causation remains plausible, but empirical evidence is weak

Empirical evidence

- There is little empirical evidence that would call for the rejection of any of the theories presented
- However, the problem is an absence of adequate empirical evidence
- Principle goals for future research
 - Integrate dual labor market theory and world systems theory with other models and systematically test the validity of competing propositions
 - Focus on additional countries other than Mexico to increase generalization

Theories through time

- Initial phases of emigration are most influenced by market penetration (world systems theory), network theory, and cumulative causation
- International migration originates in processes of economic growth and political transformation within the context of a globalizing market economy (world systems theory)

Theories through time

- As sending regions become more industrialized, emigration becomes more dependent on wage differentials (neoclassical economic theory)
 - Penetration of markets into peripheral nations disrupts noncapitalist modes of social and economic organization and causes widespread labor displacement, creating a mobile population that actively searches for a mean of improving income, acquiring capital, or controlling risks (neoclassical economics and the new economics of migration)
- Net migration ceases once sending regions become integrated into the international market as developed economies

Theories through time

- In core nations, postindustrial development leads to a bifurcation of the labor market, creating a secondary sector of jobs with low pay, unstable conditions, and few opportunities for advancement (dual labor market theory)
- Such bifurcation is particularly acute in global cities, where a congregation of managerial, administrative, and technical expertise leads to a concentration of income and a strong ancillary demand for low-wage services (world systems theory)
- Because natives shun secondary sector jobs, employers rely on immigrant workers, at times initiating the immigrant flows directly through recruitment (dual labor market theory)

Recruitment

- Recruitment often is not needed
- The same processes of <u>economic globalization</u> that create mobile populations in developing regions, and that generate a demand for their services in global cities, also foment links of transportation, communication, and culture to make their movement possible (world systems theory)
- International movement is further caused by <u>foreign</u>
 <u>policy and military involvements</u> that reflect the need
 of core nations to maintain international stability and
 security (world systems theory), which results in flows of
 refugees and military dependents

Summary of initiation

- World systems, neoclassical, new economics, dual labor market
- Individuals and families respond to changing circumstances set in motion by structural transformations (political, economic...) of their societies of origin
- Migrants seek to raise incomes, accumulate capital, and control risk by following international routes of transportation and communication to global cities with secondary sector jobs

Summary of continuation

- Flows display a strong tendency to become <u>self-perpetuating</u>
- Each act of migration contributes to the expansion of migrant networks and sets off a process of social capital accumulation that makes additional movement more likely (<u>network theory</u>)
- Regional concentration of immigrants creates a "<u>family and</u> <u>friends</u>" effect that further encourages the channeling of immigrants to some places and not others
- If enough migrants arrive under the right conditions it can also lead to the formation of an enclave economy, which further augments the demand for immigrant workers and creates a safe haven for their arrival (enclave theory)
- The spread of migratory behavior within sending communities sparks other structural changes, shifting distributions of income and land, as well as modifying local cultures in ways that promote additional migration (<u>theory of cumulative causation</u>)

Summary of continuation

- During the <u>initial phases</u> of emigration from any particular sending country, the effects of market penetration, network formation, and cumulative causation predominate in explaining the flows
- As migration reaches <u>high levels</u> and development moves societies toward industrial economies, the costs and risks of movement drop to low levels and migration is increasingly determined by international wage differentials (neoclassical economics)
- As economic growth in sending regions occurs and emigration proceeds, international wage gaps gradually close and markets for capital, credit, insurance, and futures become more accessible, <u>lowering the incentives for movement</u>
- If the sending country is ultimately integrated into the international market as a developed, urbanized economy, <u>net migration ceases</u> and the former sending country may itself become a net importer of immigrant labor

Massey's laws of international migration

- Immigration is a lot easier to start than it is to stop
- Actions taken to restrict immigration often have the opposite effect
- The fundamental causes of immigration may be outside the control of policymakers
- Immigrants understand immigration better than politicians and academicians
- Because they understand immigration better than policymakers, immigrants are often able to circumvent policies aimed at stopping them

What's driving Mexico-US migration?

- Models estimated the effects of 41 variables and explored the validity of five theories of international migration
- Three fundamental forces are at work in promoting Mexican migration to the United States
 - Social capital formation
 - Human capital formation
 - Market consolidation

Social capital formation

- Social capital is generally the most powerful factor predicting the odds of initial, repeat, and return migration
- People who are related to U.S. migrants are themselves more likely to migrate
- Each act of migration creates additional social capital capable of instigating and sustaining more migration
- About half of adult Mexicans are related to someone living in the United States (Camp 1993)

Human capital formation

- For undocumented migrants, the most important element of human capital is migration experience itself
 - Crossing the border, living in the U.S., working in the U.S. labor market, negotiating U.S. housing markets
 - The more U.S. experience a migrant accumulates, the higher her/his likelihood of migrating again
- This process intersects with social capital formation
 - Migration experience makes a person more valuable as a resource for gaining entry to the U.S. and finding a job
 - The more experience a person has, the more likely her/his friends and relatives are to begin migrating and to continue migrating themselves
- One-third of all Mexicans have been to the U.S. at some point in their lives (Camp 1993)

Market consolidation

- Over the past two decades, the economics of Mexico and the U.S. have become increasingly connected to each other and to the global capitalist economy
- Rural Mexico: displacement of manual workers, concentration of land, mechanization of production
- <u>Urban Mexico</u>: ending of import substitution industrialization has brought about important economic transformations that have displaced workers from enterprises and public bureaucracies

Development and migration

- Growing economic insecurity coupled with a strong desire to participate in the new political economy
 - Stimulated Mexican households to search for ways to self insure against threats to family income and to gain access to scarce capital
- Given ready access to human and social capital connecting them to the U.S.
 - Household heads and other family members migrate internationally as part of a conscious strategy of risk diversification and capital accumulation
- Economic development goes hand in hand with international migration

Definition of variables

Variable	Operational Definition
Demographic background:	
Age	Age at last birthday
Married	Respondent in formal or informal union
No. of minors in household	No. of own children under age 18
General human capital:	
Labor force experience	No. of years since first job
Education	No. of years of school completed
Migration-specific human capital:	
Cumulative U.S. experience	Total months spent in United States
No. of prior U.S. trips	Total no. of trips taken to the United States
Unskilled urban job	Unskilled nonagricultural occupation in the United States
Skilled urban job	Skilled nonagricultural occupation in the United States
General social capital:	
Parent a U.S. migrant	Subject's parent was a U.S. migrant
No. of U.S. migrant siblings	No. of siblings with U.S. experience
% U.S. migrants in community	Proportion over age 15 with U.S. experience
Migration-specific social capital:	
Wife a U.S. migrant	Wife has begun migrating to the United States
No. of U.S. migrant children	No. of children who have begun migrating
U.Sborn children	Whether any children were born in the United States

Definition of variables

Variable	Operational Definition
Physical capital:	
Land	Household owns farmland
Home	Household owns home
Business	Household owns a business
Community infrastructure:	
Preparatory school	Preparatory school in municipio
Paved road	Paved road between community and highway
Bank	Bank office open in municipio
Community economic context:	
% earning twice minimum wage	Proportion of workers earning at least twice the legal minimum wage
% self-employed	Proportion of workers who are self-employed
% females in manufacturing	Proportion of female workers employed in manufacturing
Community agrarian context:	
Agrarian economy	"1" if more than 50% of male labor force is employed in agriculture, "0" otherwise
Agrarian population density	Population divided by arable land
Proportion of land that is arable Ejido established	Cultivable land divided by total land base "1" if community had <i>ejido</i> , "0" otherwise

Definition of variables

Variable	Operational Definition
Macroeconomic context:	
Expected wage ratio	Ratio of wages predicted from equations esti- mated from data on migrants to the United States and migrants within Mexico (United States/Mexico; in 1990 U.S. dollars)
Peso devaluation	Rate of change in dollar value of Mexican peso over prior year
Mexican inflation rate	Rate of change in Mexican consumer index over prior year
U.S. employment growth	Rate of change in total U.S. employment over prior year
Growth in foreign investment	Rate of change in direct foreign investment over prior year
Mexican real interest rate	Average cost of funds in Mexico — Mexican inflation
U.S. policy context:	
Availability of visas	Legal immigration divided by sum of legal immigration and gross illegal entries
Probability of apprehension	Likelihood of arrest while attempting to cross border without documents
Employer sanctions enacted	"1" if employer sanctions in force, "0" oth- erwise
Amnesty recipients in household	"1" if any member of household received am- nesty under IRCA; "0" otherwise

Definition of variables

Variable	Operational Definition				
Expected value of U.S. services:					
Welfare	Estimated likelihood of using AFDC or food stamps if respondent were to migrate to United States × average value of monthly AFDC and food stamp payments in states receiving Mexican immigrants				
Medical care	Estimated likelihood of receiving unreim- bursed medical services if respondent were to migrate to United States × average value of Medicaid payments in states re- ceiving Mexican immigrants				
Education	Estimated likelihood of using public schools if respondent were to migrate to the United States × average per pupil school expenditures in states receiving Mexican immigrants				

Multinomial Logistic Regression of Selected Variables on the Odds of Taking a First Trip to the United States in Year t+1

	Without Do	CUMENTS	WITH DOCUMENTS		
Situation of Subject in Year t	В	SE	В	SE	
Demographic background:					
Age	004	.031	055	.119	
Age ²	001*	.0004	.001	.001	
Married	341*	.078	432	.444	
No. of minors in household	.011	.020	005	.118	
General human capital:					
Labor force experience	.013	.010	057	.040	
Education	014	.008	002	.039	
General social capital:					
Parent a U.S. migrant	.461*	.060	.720*	.263	
No. of U.S. migrant siblings	.388*	.021	.676*	.073	
% of U.S. migrants in community	5.016*	.817	-7.254	4,496	
Physical capital:					
Land	.298*	.127	.759	.666	
Home	446*	.093	-1.368	.759	
Business	245*	.102	.400	.457	
Community infrastructure:					
Preparatory school	249*	.075	061	.385	
Paved road	107	.125	256	.527	
Bank	.527*	.143	148	.549	
Community economic context:					
% earning twice minimum wage	2.209*	.596	-7.730*	3.241	
% self-employed	024	.412	-13.204*	2.490	
% females in manufacturing	1.214*	.370	-6.337*	2.170	
Community agrarian context:					
Agrarian economy	.480*	.078	2.034*	.765	
Agrarian population density	001*	.0005	268	.155	
Proportion of land that is arable	322*	.119	.214	.573	
Ejido established	.321*	.221	-2.880*	.892	

MULTINOMIAL LOGISTIC REGRESSION OF SELECTED VARIABLES ON THE ODDS OF TAKING A FIRST TRIP TO THE UNITED STATES IN YEAR t+1

	WITHOUT DO	OCUMENTS	WITH DOCUMENTS	
Situation of Subject in Year t	В	SE	В	SE
Macroeconomic context:				
Expected wage ratio	.003*	.001	005	.008
Peso devaluation	115	.067	028	.376
Mexican inflation rate	702*	.298	2.744	1.472
U.S. employment growth	4.734*	1.938	11.637	10.220
Growth in foreign investment	228*	.067	.108	.351
Mexican real interest rate	2.264*	.531	842	2.490
U.S. policy context:				
Availability of visas	-2.828*	.511	568	1.965
Probability of apprehension	2.891*	.783	3.119	3.302
Employer sanctions enacted	.304*	.149	.135	.836
Amnesty recipients in household	2.561*	.353	4.656*	.874
Expected value of U.S. services:				
Welfare	019*	.006	.026	.017
Medical care	.019	.024	020	.066
Education	.002*	.0002	003	.015
Constant	-5.172*	.785	1.239	3.152
Log likelihood		6,648.1	00*	
χ²		2,181.6	00*	
No. of person-years		55,76		

Note.—Event-history data gathered among male household heads from 25 Mexican communities. *P < .05.

Continuation of migration

Multinomial Logistic Regression of Selected Variables on the Odds of Taking an Additional Trip to the United States in Year t+1

	WITHOUT DOC	UMENTS	WITH DOCUMENTS	
Situation of Subject in Year t	В	SE	В	SE
Demographic background:				
Age	156*	.021	005	.034
Age ²	.001*	.0003	001	.001
Married	207*	.057	.004	.107
No. of minors in household	.071*	.012	.041*	.020
General human capital:				
Labor force experience	076*	.008	041*	.014
Education	033*	.007	.029*	.011
Migration-specific human capital:				
Cumulative U.S. experience	.012*	.001	.012*	.001
No. of prior U.S. trips	.176*	.008	.226*	.008
Last U.S. job unskilled urban	.404*	.052	.919*	.093
Last U.S. job skilled urban	.093*	.005	.354*	.087
General social capital:				
Parent a U.S. migrant	.224*	.043	.452*	.076
No. of U.S. migrant siblings	.006	.013	.090*	.020
% of U.S. migrants in community	2.992*	.558	6.430*	.956
Migration-specific social capital:				
Wife a U.S. migrant	1.340*	.118	2.482*	.163
No. of U.S. migrant children	.075*	.031	.304*	.040
U.Sborn children	1.114*	.138	1.376*	.164

Continuation of migration

Multinomial Logistic Regression of Selected Variables on the Odds of Taking an Additional Trip to the United States in Year t+1

	WITHOUT DOO	CUMENTS	WITH DOCUMENT	
Situation of Subject in Year t	В	SE	В	SE
Physical capital:				
Land	134	.071	.382*	.095
Home	327*	.048	324*	.079
Business	611*	.064	500*	.100
Community infrastructure:				
Preparatory school	.158*	.060	236*	.102
Paved road	177	.101	537*	.173
Bank	078	.097	021	.156
Community economic context:				
% earning twice minimum wage	.618	.389	-5.066*	.677
% self-employed	.143	.305	-6.107*	.582
% females in manufacturing	211	.253	732	.440
Community agrarian context:				
Agrarian economy	.200*	.061	.346*	.107
Agrarian population density	001	.001	001	.002
Proportion of land that is arable	113	.099	.968*	.169
Ejido established	.088	.133	-1.317*	.180

Multinomial Logistic Regression of Selected Variables on the Odds of Taking an Additional Trip to the United States in Year t+1

	WITHOUT DOC	UMENTS	WITH DOO	CUMENTS
Situation of Subject in Year t	В	SE	В	SE
Macroeconomic context:				
Expected wage ratio	.001	.001	012*	.002
Peso devaluation	023	.040	009	.008
Mexican inflation rate	883*	.191	004	.331
U.S. employment growth	4.344*	1.462	4.440	2.691
Growth in foreign investment	167*	.048	157*	.078
Mexican real interest rate	1.593*	.375	2.142*	.656
U.S. policy context:				
Availability of visas	-2.900*	.409	1.617*	.639
Probability of apprehension	-2.182*	.527	1.923*	.824
Employer sanctions enacted	364*	.096	.235	.160
Amnesty recipients in household	1.767*	.143	3.748*	.160
Expected value of U.S. services:				
Welfare	060*	.003	.043*	.020
Medical care	.186*	.011	190*	.012
Education	0003*	.0001	002*	.0001
Constant	3.892*	.558	-1.309	.000
Log likelihood		11,829.0	*000	
χ²		18,059.0	*000	
No. of person-years		27,81	3	

Note,—Event-history data gathered among male household heads from 25 Mexican communities. *P < .05.

Logistic Regression of Selected Variables on the Odds of Returning to Mexico from the United States in Year t

	With Docum		WITH DOCUMENTS		
Situation of Subject in Year t	В	SE	В	SE	
Demographic background:					
Age	.002	.047	002	.097	
Age ²	0002	.0006	.001	.001	
Married	.224*	.108	658*	.239	
No. of minors in household	010	.027	.049	.055	
General human capital:					
Labor force experience	007	.015	.042	.033	
Education	048*	.013	087*	.029	
Migration-specific human capital:					
Cumulative U.S. experience	025*	.002	035*	.002	
Duration of trip in months	221*	.008	079*	.006	
No. of prior U.S. trips	.270*	.022	.276*	.020	
Holds unskilled urban job	607*	.096	124	.211	
Holds skilled urban job	323*	.102	.289	.203	
General social capital:					
Parent a U.S. migrant	.140	.087	.121	.170	
No. of U.S. migrant siblings	039	.027	.065	.041	
% of U.S. migrants in community	.653	1.115	-2.503	2.169	
Migration-specific social capital:					
Wife a U.S. migrant	360	.198	-2.174*	.369	
No. of U.S. migrant children	387*	.077	844*	.081	
U.Sborn children	.050	.242	-1.326*	.367	

Note: Non-migrant as reference. Source: Massey, Espinosa 1997, p.979–980.

Logistic Regression of Selected Variables on the Odds of Returning to Mexico from the United States in Year t

	With Docum		WITH DOCUMENTS		
SITUATION OF SUBJECT IN YEAR t	В	SE	В	SE	
Physical capital:					
Land	.931*	.168	.994*	.221	
Home	.241*	.109	.216	.182	
Business	193	.148	046	.226	
Community infrastructure:					
Preparatory school	.172	.119	.875*	.223	
Paved road	063	.174	1.332*	.469	
Bank	.414*	.207	387	.413	
Community economic context:					
% earning twice minimum wage	-2.782*	.761	-3.883*	1.548	
% self-employed	1.939*	.596	-1.012	1.397	
% females in manufacturing	-2.424*	.525	-6.072*	1.235	
Community agrarian context:					
Agrarian economy	200	.120	127	.235	
Agrarian population density	.001	.001	.014	.005	
Proportion of land that is arable	.097	.202	624	.364	
Ejido established	326	.288	-1.158*	.507	

Logistic Regression of Selected Variables on the Odds of Returning to Mexico from the United States in Year t

	WITH DOCUM		WITH DOCUMENTS		
Situation of Subject in Year t	В	SE	В	SE	
Macroeconomic context:					
Expected wage ratio	0003	.001	.0003	.002	
Peso devaluation	027	.083	245	.151	
Mexican inflation rate	1.098*	.396	3.032*	.724	
U.S. employment growth	2.936	2.797	-5.879	5.616	
Growth in foreign investment	136	.100	.530*	.168	
Mexican real interest rate	1.560*	.760	326	1.443	
U.S. policy context:					
Availability of visas	-1.990*	.848	-2.549	1.517	
Probability of apprehension	090	1.126	-4.761*	1.937	
Employer sanctions enacted	.232	.228	-1.133*	.332	
Amnesty recipients in household	.092	.295	198	.281	
Expected value of U.S. services:					
Welfare	010	.008	028*	.008	
Medical care	014	.030	.297*	.045	
Education	.0002	.0002	.0009*	.0002	
Constant	3.565*	1.191	5.620	.225	
og likelihood	2,147.8	*00	743.34	340*	
ζ ²	6,169.9	900*	2,963.3	00*	
No. of person-years	8,39	94	4,73	3	

Note.—Event-history data gathered among male household heads from 25 Mexican communities. *P < .05.

Probabilities

EFFFCT OF INDEPENDENT VARIABLES ON UNDOCUMENTED MIGRATION

		PROBABILITY OF PROBABILITY OF FIRST MIGRATION REPEAT MIGRATION		TROUBLETT OF TO MEXICO BORING		OURING FIRST
Independent Variable	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
Demographic background:						
Married	.050	.036	.477	.425	.280	.328
No. of minors in household	.039	.043	.378	.517	.317	.300
General human capital:						
Education	.043	.036	.465	.377	.379	.249
Migration-specific human capital:						
Cumulative U.S. experience			.321*	.746*	.524*	.035*
No. of prior U.S. trips			.312*	.841*	.181*	.880*
Unskilled urban job			.414	.514	.361	.236
Skilled urban job			.428	.450	.335	.267
General social capital:						
Parent a U.S. migrant	.037*	.057*	.416	.471	.299	.329
No. of U.S. migrant siblings	.035*	.073*	.431	.438	.326	.285
% U.S. migrants in community	.027*	.062*	.366	.538	.299	.331
Migration-specific social capital:						
Wife a U.S. migrant			.381*	.702*	.345	.268
No. of U.S. migrant children			.423	.498	.348*	.143*
U.Sborn children			.410	.548	.310	.321
Physical capital:						
Land	.039	.052	.437	.405	.298*	.519*
Home	.045	.030	.468	.388	.302	.355
Business	.041	.032	.460	.316	.316	.276

Note: Range of probabilities refer to when variable goes from its 5th percentile (minimum) to its 95th percentile (maximum) while holding all other variables constant at their means. Age and labor force experience are hold constant at 18 and 3 years, respectively.

Probabilities

EFFFCT OF INDEPENDENT VARIABLES ON UNDOCUMENTED MIGRATION

	PROBABILITY OF FIRST MIGRATION		PROBABILITY OF REPEAT MIGRATION		Probability of Retu to Mexico during Fi Year of Migration	
Independent Variable	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
Community infrastructure:						
Preparatory school	.044	.035	.421	.459	.298	.335
Paved road	.044	.040	.474	.430	.325	.312
Bank	.025	.042	.450	.431	.234	.316
Community economic context:						
% earning twice minimum wage	.028*	.058*	.408	.456	.426*	.235*
% self-employed	.040	.040	.427	.441	.257*	.424*
% females in manufacturing	.036*	.060*	.438	.412	.359*	.144*
Community agrarian context:					1005	
Agrarian economy	.028*	.049*	.402	.451	.340	.297
Agrarian population density	.040	.039	.434	.432	.312	.313
Proportion of land that is arable	.047	.036	.445	.422	.304	.321
Ejido established	.029	.040	.430	.433	.384	.311
Macroeconomic context:	1027	10 10	1100	.400	.004	.511
Expected wage ratio	.039	.044	.429	.443	.313	.311
Peso devaluation	.042	.035	.435	.420	.315	.300
Mexican inflation rate	.047	.029	.495	.325	.250*	.425*
U.S. employment growth	.035	.044	.401	.454	.294	.327
Growth in foreign investment	.049	.032	.475	.389	.342	.281
Mexican real interest rate	.028*	.056*	.368	.493	.261	.368
U.S. policy context:	1020	1000	.500	.495	.201	.508
Availability of visas	.048*	.022*	.472	.280	.330	.252
Probability of apprehension	.030	.049	.480	.390	.314	.311
Employer sanctions enacted	.039	.052	.446	.359	.308	.359
Amnesty recipients in household	.040*	.350*	.416*	.806*	.311	.331
Expected value of U.S. services:	1010	.000	.410	.800	.511	.331
Welfare	.055*	.020*	.753*	.022*	.405	.190
Medical care	.037	.045	.271*	.786*	.341	.266
Education	.032	.051	.460	.353	.341	.253
Mean	.04		.430		.341	

Note.—Probability of first migration at age 18, probability of repeat migration at age 25, and probability that a 25-year-old will return to Mexico during the first y of migration.

^{*} Ranges greater than 50% of mean probability.

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