Gender, Remittances and financial decisions in Transnational Families...

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Coloquio Internacional "Migration, Remittances and Development June 14th and 15th 12th Anniversary of El Colegio de Tlaxcala*

*earlier version, NACCS, 2011 Pasadena, CA

This presentation focuses on technology and financial inclusion, but pending immigration reform very important

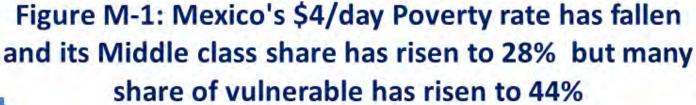
- 1. New technologies: Mobile phones & skype make it easier for families to communicate and make decisions
- 2. Safe access to financial services reduces the risk and expense of sending remittances and makes living in a cash economy safer...
- 3. Immigration reform has already started to reduce deportations and detentions in the United States (Deferred action for Childhood arrivals-DACA)

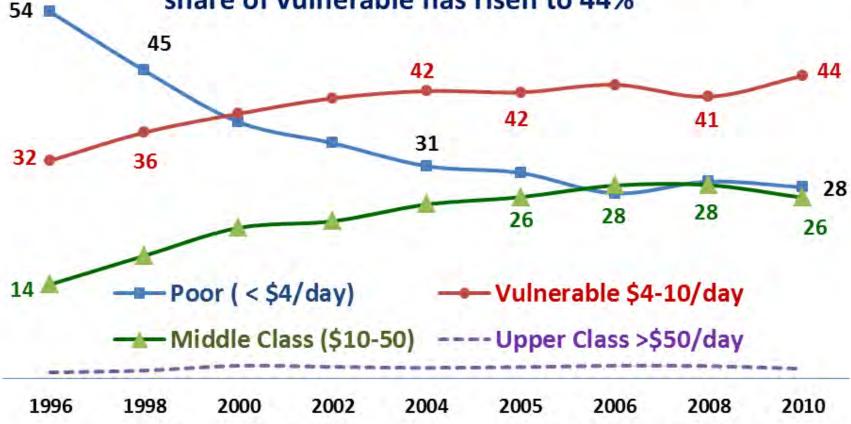
Immigration reduces Poverty in both Mexico and in the United States

- Immigration reduces poverty and benefits U.S. and Mexican families, but at cost, separation of families, a strong currency, unfinished houses
- The purpose of research at CIPS and at Colegio Tlaxcala is to reduce the cost of immigration, while preserving the benefits:
 - New technologies: Mobile phones & internet (Skype)
 - Safe access to financial services and insurance
 - Support for immigration reform in the United States

Objectives:

- To better understand how transnational households use financial services and new technologies such as mobile phones affect remittances and decision making within the family
- Four remittance corridors: Guerrero-New York, Oaxaca-Los Angeles and Puebla-New York and Puebla-Raleigh-Durham North Carolina.





Source: Feirriera et. al. 2012, Economic Mobility and the Rise of the Latin American Middle Class, World Bank LAC Flagship Report, October.

Key results from survey analysis

- Access to financial services in the U.S. reduces remittances (except debit cards)
- Access to financial services in Mexico (mainly savings) increases remittances
- Cell phone in Mexico use increases remittances causality seems to run from phones to remittances
- Cell phone use in Mexico is associated with decreased migrant control over financial decision making (culture/gender has role)

Summary of findings

- Financial access to formal accounts in Mexico increases remittances.
- Access to U.S. financial services reduces remittances except perhaps debit cards
- Use of cell phones in Mexico increases remittances, causality seems to run from mobile phones to remittances
- Gender differences: impact of women's access finance in Mexico greater, men's U.S. access greater in opposite direction

How do remittances, cell phones and financial affect TNH decision making?

Four decision-making & information sharing questions:

- 1. "I am in charge of the majority of the financial decisions made by my family in Mexico." (FDUS)
- 2. "the majority of decisions are made by my family in Mexico alone" (FDMX)
- 3. "important financial decisions are made by me and family members in Mexico, jointly." FDBoth
- 4. "members of my family in Mexico know how much I earn"

Answers: (agree, somewhat agree, no, not really, no and "I am not sure" land 15th 2013

Survey questions in Spanish:

- 1. FDUS: Es Ud. responsable por la mayoría de las decisiones financieras que hacen su familia en México, como en compras de carro, casa, o negocios? Nos referimos siempre a la familia a la cual Ud. envia remesas?
- 2. FDMX: Sus familiares en México hacen la mayoría de las decisiones financieras ellos solos?
- 3. FDboth Ud. y sus familiares en México juntos hacen las decisiones financieras más importantes.
- 4. Know: Sus familiares en México saben cuanto gana Ud.?

Conclusions so far:

- Remittances se increase decision making power of sender.
- Years in U.S. reduces control of financial decisions, age increases control (gender dependent)
- Use of cell phones enhances Mexico decision making autonomy, not sender's.
- Indigenous language users use more cooperative decision making in household

To summarize key results:

- Cell phones are associated with more decentralized decision-making— women drive this result.
- Women send more money if they have less control over financial decision-making.
- Men and dialect speakers respond in more traditional ways: more control means more remittances... not as sensitive to mobile phones
- So why are women different?

Ongoing research

- Gender aspects of decision to remit.
- Characteristics of Households in Mexico (Conapo, 2008 Consumer survey)
- Women immigrants tend to assert less control of financial decision in Mexico.
- How cell phones enhances Mexico decision making autonomy, not sender's.
- Traditional family ties, stronger among indigenous dialect speaking families

Results for the decision to remit

Table 1A: Predict decision to send remittances over \$600 in previous year

		•			
Dependent Variable: Sent more than	1 \$600 in re	emittand	es last y	ear	
(z-statistics in parentheses)	4.1	4.2	4.3	4.4	4.5
Months in U.S. + months since	0.002	0.09	0.02	0.01	0.01
	(0.2)	(0.5)	(0.7)	(0.5)	(0.2)
Migrant is a U.S. Citizen	-0.40	-0.35	-0.7	-0.55	-0.56
	-(1.2)	-(0.9)	-(1.5)	-(1.5)	-(1.3)
Financial Access in Mexico	1.07	1.2	1.49	1.41	1.21
(# of savings or checking accounts)	(2.2)	(2.2)	(2.6)	(2.4)	(2.1)
# of HH Mobile phones in U.S.	-0.06	-0.12	0.4	-0.20	-0.21
	-(1.2)	-(2.2)	(2.7)	-(2.9)	-(3.1)
#of HH Mobile phones in Mexico	0.252	0.33	0.39	0.38	0.69
	(1.82)	(2.3)	(2.7)	(2.8)	(2.7)
Has credit card and lives in LA	-1.6	-1.73			
	-(3.0)	-(3.0)			
Financial Access in the U.S. 2/			-0.6	-0.40	-0.31
(# of savings/checking accounts + credit cards)			-(1.8)	-(1.3)	-(2.1)
Number of Earners in household	0.80	0.85	1.0		
	(3.3)	(3.2)	(3.6)		

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Migrant is a U.S. Citizen	-0.40	-0.35	-0.7	-0.55	-0.56
	-(1.2)	-(0.9)	-(1.5)	-(1.5)	-(1.3)
Mexican HH makes own financial decisions		-0.62			
		-(1.7)			
Family knows what I earn in U.S.		0.97			
		(1.4)			
Migrant makes key financial decisions				1.2 (1.9)	1.19 (1.9)
Key financial decisions in Mex cooperative		1.09	1.52	1.17	1.1
The second of the second secon			(3.1)	(2.5)	(2.4)
Interaction between			1.35		
			(2.6)		
Constant	0.1	-0.32	-1.2	-0.9	-0.9
	(0.2)	-(0.3)	-(1.9)	-(1.4)	-(1.4)
Number of Observations	157	157	157	157	157
McFadden R-squared	0.20	0.31	0.27	0.24	0.25
S.E. of regression	0.42	0.39	0.40	0.41	0.41
# sending remittances >\$600 annually	105	105	105	105	105
# sending remittances <\$600 annually	52	52	52	52	52
Estimation method (BEV: binary extreme value)	BEV	BEV	Logit	Logit	Logit

Table 2A: Determinants of Remittances: origin, occupation, gender and education

Dependent Variable:	Log Annual Remittances (average \$187 per month)						
(t-statistics in parentheses)	2.1	2.2	2.3	2.4	2.5	2.6	
– Months in U.S. + months since	-0.04	-0.03	-0.04	-0.03	-0.03	-0.03	
last visit to Mexico (log squared)	-(3.3)	-(2.7)	-(3.0)	-(2.3)	-(2.5)	-(2.2)	
Women's basic expenses (N=48)	0.41	0.45	0.47	0.55	0.57	0.54	
log(food+clothes+phone)	(2.4)	(2.6)	(2.8)	(3.0)	(3.4)	(3.1)	
Men's basic expenses (N=44)	0.39	0.37	0.40	0.47	0.48	0.45	
log(food+clothes+phone)	(2.2)	(2.1)	(2.4)	(2.6)	(2.8)	(2.6)	
Speak a Dialect and Spanish but say	-0.43	-0.40	-0.41	-0.31	-0.35	-0.32	
the speak no English (N=24)	-(3.1)	-(2.7)	-(2.7)	-(2.3)	-(2.5)	-(2.1)	
Is a U.S Citizen (N=52)	-0.48	-0.42	-0.42		-0.32	-0.28	

Table 2A: Determinants of Remittances: origin, occupation, gender and education

Dependent Variable:	Log .	Annual Remi	ttances (av	erage \$18	37 per moi	nth)
(t-statistics in parentheses)	2.1	2.2	2.3	2.4	2.5	2.6
Primary only or no schooling (N=29)				-0.48	-0.37	-0.40
Receive government payments (N=40)				-(2.0)	-(1.7)	-(1.7) - 0.26
From Guerrero or Puebla and, (N=64)						-(1.3)
Work as domestic (N=17)			0.64 (2.4)	0.83 (3.5)	0.77 (2.8)	0.84 (3.3)
Have no schooling (N=4)			(2.4)	(3.3)	-1.21	-1.02
HS or University education (N=47)				-0.53	-(4.4) - 0.48	-(3.2) - 0.51
Men from Guerrero or Puebla (N=	31)	0.51 (2.0)	0.46 (1.8)	-(2.2) 0.77 (2.7)	-(2.0) 0.71 (2.6)	-(2.3) 0.69 (2.4)
From Guerrero only (N=17)		(2.0)	(1.0)	(2.7)	(2.0)	(2.4)
Work in construction, retail or manufacturing				0.65 (1.7)	0.85 (3.7)	0.76 (1.7)
From Guerrero only (N=17)				0.34 (1.4)		0.32 (1.2)

Table 2A: Determinants of Remittances: origin, occupation, gender and education

Table 2A. Determinants of Kemittances, origin, occupation, genuer and education										
Dependent Variable:	Log Annual Remittances (average \$187 per month)									
(t-statistics in parentheses)	2.1	2.2	2.3	2.4	2.5	2.6				
From Guerrero only (N=17)										
Work in construction, retail or				0.65	0.85	0.76				
manufacturing				(1.7)	(3.7)	(1.7)				
From Guerrero only (N=17)				0.34		0.32				
				(1.4)		(1.2)				
Constant	6.47	6.04	5.96	5.3	5.4	5.6				
	(5.7)	(5.3)	(5.3)	(4.3)	(4.8)	(4.8)				
Number of Observations	92	92	92	92	92	92				
R-squared	0.23	0.26	0.29	0.33	0.37	0.40				
Adjusted R-squared	0.19	0.21	0.23	0.25	0.29	0.30				
Std Error of Regression	0.81	0.80	0.79	0.78	0.76	0.75				
Wald F-test for gender differences 1/	0.65	4.4	3.0	4.2	5.9	5.8				

3.9%

8.9%

Prob value for equal coefficients null

42%

1.7%

1.9%

4.4%

Table 3: Remittances, Financial Access and Technology use

Dependent Variable:	Log	Annual F	Remittano	ces (\$225	0 a year; S	\$188 a m	onth)
(t-statistics in parentheses)	3.1	3.2	3.3	$3.4^{1/}$	$3.4a^{1/}$	3.5	$3.6^{6/}$
Months in U.S. + months since	-0.04	-0.03	-0.03	-0.03	-0.03	0.27	-0.03
last visit to Mexico (log squared)	-(3.7)	-(3.2)	-(2.5)	-(2.2)	-(2.9)	-(4.0)	-(3.2)
Basic expenses log(food+clothes+phone)	0.37 (2.2)	0.34 (2.3)	0.39 (2.6)	0.46 (3.1)	0.47 (3.7)	0.27 (2.0)	0.34 (2.5)
Speak dialect or spanish but no english	-0.53 -(3.6)	-0.62 -(4.0)	-0.55 -(3.6)	-0.50 <i>-(3.6)</i>	-0.45 -(3.2)	-0.52 <i>-(3.7)</i>	-0.64 -(5.6)
Is a U.S Citizen (N=42)	-0.54 <i>-(3.0)</i>	-0.53 -(2.8)	-0.50 -(2.7)	-0.45 -(2.6)	-0.31 -(2.0)	-0.45 -(2.8)	-0.30 -(1.7)
From Guerrero or Puebla, domestic services	0.61 (2.2)	0.70 (2.8)	0.72 (2.8)	0.81 (3.1)	0.78 (3.7)	0.80 (3.3)	0.86 (3.1)
Migrant has checking account in Mexico		0.42 (1.9)	0.47 (2.0)	0.50 (1.8)	0.48 (1.8)		
Female Migrant has checking account in Mexico						0.92 (5.0)	1.03 (6.0)

Table 3: Remittances, Financial Access and Technology use

Dependent Variable:	Log Annual Remittances (\$2250 a year; \$188 a month)							
(t-statistics in parentheses)	3.1	3.2	3.3	3.4 ^{1/}	$3.4a^{1/}$	3.5	$3.6^{6/}$	
Migrant has checking account in Mexico		0.42	0.47	0.50	0.48			
		(1.9)	(2.0)	(1.8)	(1.8)			
Female Migrant has checking account in Mexico						0.92	1.03	
						(5.0)	(6.0)	
Migrant has U.S. Checking account 3/		-0.36	-0.24	-0.25			-0.61	
		-(1.4)	-(1.1)	-(1.1)			-(1.9)	
Migrant works in Construction					0.60			
					(2.8)			
Migrant has savings account in Mexico 4/		0.28	0.29	0.30	0.44	0.79	0.31	
		(1.3)	(1.4)	(1.5)	(2.4)	(3.4)	(1.6)	
Migrant has savings account in the U.S.		-0.52	-0.46	-0.50	-0.65	-0.66	-0.60	
		-(2.5)	-(2.2)	-(2.4)	-(3.7)	-(3.4)	-(3.0)	
Male migrant has U.S. credit card						-1.56	-1.24	
-						-(7.2)	-(3.5)	
Male migrant's HH U.S. bank debit cards 5/						0.30		
						(2.0)		

Table 3: Remittances, Financial Access and Technology use

		10111000	00 44144	1 0 01111010	5 5 4 5 6		
Dependent Variable:	Lo	og Annua	l Remitt	tances (\$22	250 a year; \$	188 a mo	nth)
(t-statistics in parentheses)	3.1	3.2	3.3	3.41/	3.4a ^{1/}	3.5	$3.6^{6/}$
Number of mobile phones in Mexico household			0.07 (3.0)	0.08 (2.3)	0.12 (2.3)	0.08 (3.1)	0.10 (3.7)
Constant	6.8 (6.3)	6.90 (7.2)	6.4 (6.3)	5.7 (5.4)	5.4 (6.1)	7.2 (8.4)	6.3 (6.4)
Number of Observations	83	82	82	82	82	82	81
R-squared	0.29	0.40	0.42	0.44	0.46	0.53	0.57
Adjusted R-squared	0.25	0.33	0.34	0.35	0.38	0.46	0.48
Std Error of Regression	0.77	0.73	0.71	0.71	0.69	0.65	0.64
Estimation method1/	OLS	OLS	OLS	IV-GMM	IV-GMM	OLS	OLS
Sargan Test (prob-value) 2/				94%	58%		

^{1/}Instruments for mobile phones in Mexico: migrants came from Oaxaca or Mexico DF, migrants speak local dialect, live in NYC or work in manufacturing or restuarants or have some University education. Eq 3.5a drops manufacturing jobs and adds mobile phones in U.S., employment in retail, construction and restuarants and women migrants.

^{2/} The GMM J-statistic (1.26) and intrument rank (17) are used to compute the equivalent of a Sargan tests for the null hypothesis that the instruments are exogenous, here the null can only be rejected with 6% confidence compared to the usual 95%.

^{3/}Eq. 3.6 includes only males migrants with checking accounts in the United States.

^{4/}Eq 3.5 excludes migrants who came from Puebla, leaving those from Oaxaca, Mexico DF or Guererro.

^{5/}Male migrant household refers to male migrant and next closest person living in household (either or both have debit cards).

^{6/}Eq. 3.6 also includes variables for the age of male remittance sender (coefficient .02, t-statistic 3.1), and for female migrants who send remittance to father (coef .80, t-statistic 2.9), and migrants who send remittance to spouse (coef .80, t-statistic 2.3),

My family makes key decisions together

My family makes key financial decisions together											
	Women	Men	All	Women	Men	AII					
Yes	39	34	73	51%	44%	47%					
Some	2	9	11	3%	12%	7%					
No	26	30	56	34%	38%	36%					
Not really	10	5	15	13%	6%	10%					

78

78

156

100%

100%

100%

Table 4: Transnational Household (TNH) Financial decision making

Dependent Variable:	Agree (y	es) answers	to TNH m	najor financ	cial decision	s statements
-	1		C	Migrant in U.S. makes decisions		family makes al decisions
(z-statistics in parentheses)	4.1	4.2	4.3	4.4	4.5	4.6
Months in U.S. + months since last visit to Mexico (log squared)	-0.05 -(0.3)	0.12 -(1.7)	-0.82 -(2.5)	-0.29 -(1.5)	0.74 (2.4)	0.47 (2.4)
Log remittances per year	0.34 (2.3)	0.30 (1.9)	1.1 (2.6)	0.46 (2.0)	-0.31 <i>-(1.1)</i>	-0.05 -(0.3)
Migrant has savings account in Mexico 4/	0.72 (2.3)	1.2 (3.2)	-1.22 -(1.9)	-0.42 -(1.2)	1.18 (2.0)	1.03 (2.6)
Migrant has U.S. credit card	1.12 (2.5)	0.84 (2.0)	2.3 (2.2)	1.67 (2.6)	-1.56 -(2.0)	-0.67 -(1.4)
Mobile phones in Mexico + the U.S.	0.004 (0.14)	0.03 (1.0)	-0.29 -(2.9)	-0.21 -(3.2)	0.15 (2.7)	0.09 (2.8)
Migrant speaks local dialect	1.2	1.04	2.07	0.82	-1.41	-0.49

Dependent Variable:	Agree (yes) answers to TNH major financial decisions statements							
	_	Cooperative TNH decision-making		n U.S.	Mexico family make financial decisions			
(z-statistics in parentheses)	4.1	4.2	4.3	4.4	4.5	4.6		
Family does not know what I earn in U.S.					1.43 (2.5)	0.79 (2.4)		
Age of migrant in U.S. (remittance sender)	-0.01 -(0.7)	-0.02 -(1.0)	0.06 (1.4)	0.02 (1.1)	-0.05 -(1.2)	-0.04 -(1.6)		
Resondent works in domestic services sector	0.87 (1.8)	1.03 (2.2)	-1.5 -(1.3)	-0.83 <i>-(1.4)</i>				
Answered yes to Mexico family autonomous		-1.33 -(4.0)		-1.9 -(3.7)				
Answered yes to cooperate decisions w/ family	in Mex				-1.2 -(3.8)			
Male migrant sends remittance to woman			-2.01 -(2.0)	-1.47 -(2.9)	-0.62 -(1.1)	-0.42 -(1.2)		
Remittance sent to Spouse	1.2 (1.8)	1.7 (2.5)	2.5 (2.2)	1.68 (2.9)				
Remittance sent to Father					1.45 (2.0)	0.89 (2.2)		

Table 4: Transnational Household (TNH) Financial decision making

Dependent Variable:	Agree	(yes) answe	rs to these n	najor financ	cial decisions	statements
QML (Huber/White) standard errors & covariance	FDI	FD both		US	I	DMX
(z-statistics in parentheses)	4.1	4.2	4.3	4.4	4.5	4.6
Answered yes to Mexico family autonomous		-1.33 -(4.0)		-1.9 -(3.7)		
Answered yes to cooperate decisions w/ family in	Mex				-1.2 -(3.8)	
Male migrant sends remittance to woman			-2.01 -(2.0)	-1.47 -(2.9)	-0.62 -(1.1)	-0.42 -(1.2)
Remittance sent to Spouse	1.2 (1.8)	1.7 (2.5)	2.5 (2.2)	1.68 (2.9)		
Remittance sent to Father					1.45 (2.0)	0.89 (2.2)
Constant	-2.8 -(2.1)	-2.44 <i>-(1.7)</i>	-7.7 -(2.0)	-2.7 -(1.1)	-0.7 -(0.3)	-0.8 -(0.5)
Number of Observations	114	114	114	114	114	114
McFadden R-squared	0.19	0.31	0.33	0.50	0.24	0.34
S.E. of regression	0.46	0.42	0.35	0.31	0.44	0.41
Obs with $dep = 1$	60	60	25	25	62	62
Obs with $dep = 0$	54	54	89	89	52	52
Estimation method	probit	probit	probit	logit	logit	probit

Why do cell phones diminish influence of remittance sender?

- Cell phone remittance effect stronger for women, almost all female remittance senders.
- Similarly, cell phone autonomy effect largely reflects women migrants
- Mexico financial access effects strongest for women
- U.S. financial access effect strongest for women.
- Women are more likely to answer financial decisions are made by both, men to say financial decisions are made by sender.

Gender dimensions:

- Cell phone remittance effect stronger for women, almost all female remittance senders.
- Similarly, cell phone autonomy effect largely reflects women migrants
- Mexico financial access effects strongest for women
- U.S. financial access effect strongest for women.
- Women more likely to respond FDMX or Fdboth, men dominate FDUS response.

Remittances Financial Services and technology: women's status in TNHs

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38th Annual Meeting of the National Association for Chicana and Chicano Studies, Pasadena, CA April 1st 2011

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Why they came: the migration decision

- □ Pulled by *family reunification & economic incentives*; they are mainly from very poor rural areas in states where average incomes are less than \$1500 per year per person.
- Most women have lived in New York 5-10 years, yet most still see migration as temporary: most expect to return, just 4 of the 12 women, mainly the single mothers, do not plan to return.
- All felt immigration had greatly improved their lives economically, and that of their families; but migration also had negative effects, mainly due to separation from family members.

NY focus group participant profiles

- 12 women aged 18 to 61 from Puebla and Guerrero living in NY for 5-25 years, all except the 18 year old had children: three were single mothers.
- All work, mainly as domestics or in the personal services sector (beauty parlor), one has her own business selling food, clothing and crafts from Mexico to fellow immigrants, but did not feel comfortable discussing her informal business, survey work profile similar (see Table 2 below).

Bank accounts: US and Mexico

- -One third (4 of 12) of women households spouses/partners have bank accounts in NYC; Majority of women and members in their NYC's households are unbanked.
- Most fear that money in US banks may be lost due to undocumented status or eligibility of public health insurance for children.
- All women and their families in NYC save money, averages of \$200-\$400 per month.
- 8 of the 12 women send their savings to Mexico.
- Parents in Mexico mainly in charge of savings; but accounts also on parent's or other relatives' names.
- Most families in need of financial education about banking, tax forms, and health insurance.

Evidence from focus groups and other studies:

- Women report cell phones are not used mainly for husband wife or daughter parent communication (unless daughter is teenager)
- Studies in Honduras in 2001 suggest women rarely call husband, do not initiate communication.
- But, focus group women report wanting more control over remittance accounts in Mexico.
- For El Salvador Yang et al. (2008) again shows bank accounts increase remittances (gender?)

Why are women different? Two possible explanations

- Altruism: women are more altruistic than men, lots of evidence, Tirole et al. (2007) Swedish blood donor gender differences
- Family values: traditional female hierarchy w/in household. Women are socialized to self-sacrificing and not to demand decision making power.
- Early evidence altruism, or a different sense of cooperative outcomes and horizontal communication.

Why are women different? One last regression

Dependent Variable: LOG(REMAN2)

Sample: 1 163 Method: Least Squares

Included observations: 92 Date: 11/10/10 Time: 10:18

White heteroskedasticity-consistent standard errors & covariance

Variable	Coefficient	Std. Error t-	Std. Error t-Statistic	
С	6.20	0.99	6.26	
LOG((MTHUS)+YRSVISIT/12)^2	-0.03	0.01	-2.60	
LOG(FOOD+CLTH3+ALLPHONE)	0.36	0.16	2.27	
GOVPAY*Female	-0.57	0.22	-2.57	
(MEXCHECK)*Female	0.90	0.18	5.06	
M*EGOCC	-1.50	0.17	-9.03	
F*EGOSAVE	-0.58	0.31	-1.85	
F*MOBOTH-MOBUS	0.08	0.02	3.36	
Dknow*FDMex*Female	0.45	0.24	1.86	
FDUS*FDboth*M	0.39	0.18	2.16	
R-squared	0.35	Mean dependent var		
Adjusted R-squared	0.28	S.D. depend	S.D. dependent var	
S.E. of regression	0.74	Akaike info criterion		
Sum squared resid	44.65	Schwarz criterion		
Log likelihood	-97.28	Hannan-Qui	Hannan-Quinn criter.	
F-statistic	4.93	Durbin-Watson stat		

Fordham NY immigrant survey targets rural residents of Guerrero & Puebla...

- larger immigration corridor project sponsored by UCLA-NAID and the Packard foundation
- Targets transnational families at both ends of the NY-Mexico corridor

Municipios in Guerrero:

Tlapa De Comonfort
Huamuxtitlan
Xochihuehuetlan
Olinala
Alcozauca De Guerrero
Xalpatlahuac
Alpoyeca



Puebla Municipios:

Acajete, Atlixco Puebla Huaquechula Izucar De Matamoros Acatlan San Pedro Cholula Tehuitzingo Tulcingo or Tehuacan

Key research issues

- How women migrating from poor rural areas of Mexico with low literacy adapt to modernity: living in Manhattan and Bronx?
- Does migration, remittances and technology speed the labor market integration of women and their families in New York and Mexico?
- 3) What role if any do remittances and ICT (cell phones or the internet) play in this process?
- 4) How do women use financial services and cell phones in New York and in Mexico? Does new technology ease the transition from informal to more formal financial markets with access to credit, small loans and savings accounts?

Sources of evidence:

- Preliminary results from survey interviews of about 150 migrant households, 2/3 headed by women born in Mexico.
- Five focus groups including 34 Mexican women immigrants ages 18-65 originating mainly from poor, rural municipalities in Puebla and Guerrero, Mexico.
- Informal interviews with local community leaders, credit union owners and community organizers and discussions a November 19th 2008 Workshop on "Migration, Remittance and Financial Inclusion"
- Census data on migration of women to the U.S. by birthplace relating migration, remittances to access to technology and finance.

For women, mobile banking might:

- Ease work-family tradeoffs
- Increase personal safety
- Increase employment opportunities (calls from potential and existing employers)
- Reduce personal cost of migration
- Enhanced financial access both in the U.S. and in Mexico
- Facilitate women's business development in Mexico (assets controlled by women).

Migration of women trends & literature:

Traditionally remittance recipients, but share of women migrating and working is increasing:

Table A-1 Share of women born in Mexico residing in the U.S. rose about 60% from 1990 to 2000

Age	1990	2000	Cha	nge
16-25	4.9	7.7	2.8	57%
26-35	7.7	12.6	4.9	64%
36-45	7.5	11.9	4.4	59%

Source: Chiqutar and Hanson (2005) based on samples from XII and XIII Censo General de Poblacion y Vivendi

Literature finds mixed benefits of international migration for women... social & personal costs

- Positive overall but some negative impacts rising labor market participation, improved health and literacy see Fuentes (2007) Woodruff (2007); Ehrenreich and Hochschild (2002); Lopez Calva (2005) literacy; Molina and McLeod (2007) find female enrollments increase... more benefits than total trade...
- See focus groups responses (below)
- Recent world bank volume *International Migration of Women* opens with quote from H.E. Ellen Johnson-Sirleaf, President of Liberia: "As women's roles change and they begin to assume a larger economic role within the family, they increasingly look abroad for sources of livelihood and more competitive wages for their labor."

Remittances and female school enrollments impacts mixed

- □ Cox-Edwards and Ureta (2003) find remittances greatly increase school retention in El Salvador.
- De la Briere (2002) find females remit more and parents invest more in girl's education...
- Boucher, Stark and Taylor (2005) find internal but not international migration increases schooling in rural Mexico –

Cell phones, ICT and gender bias and benefits

- A number of UN studies find ICT (internet) bias against women, especially Africa.
- In Kenya and South Africa cell phone bank accounts are 60-70% used by men (Whizzit and MPESA).
- But ICT also potential for benefits for women: for access to medical and emergency services, self-employment and managing family-work conflicts...

Table A-2: Hispanics become avid cell phone users (the percentage of cell owners in each group)

Experiences and attitudes	Whites N=979	Blacks N=156	109 Hispanic English- speakers
I used my cell phone in an emergency and it really helped	73%	78%	83%
I often make cell phone calls to fill up free time traveling or waiting for someone	38%	52%	57%
I have occasionally been shocked by my monthly cell phone bill	32%	39%	57%
Too many people try to call me because they know I have a cell phone	19%	33%	37%
When on my cell phone, I'm not always truthful about exactly where I am	18%	32%	39%
Cell phone features used:			
Send and receive text messages	31%	42%	54%
Take still pictures	26%	23%	56%
Use the internet	12%	17%	29%
Play music	5%	11%	16%

Source: Pew Internet & American Life Project, Associated Press, AOL cell phone survey. March 8-28, 2006. N=1,503 (752 contacted on landlines and 751 contacted on their cell phones). In all, 1,286 cell users are in the sample. The margin of error for the cell-using population is ±3%.

Pew IAL study found some gender differences in U.S. cell phone use

Mobile men and women Percentage of men and women who use cell phones				
	Men	Women		
Experiences and attitudes				
I have used my cell in an emergency and it really helped	71%	77%		
Frequently encounter people using cells in a loud or annoying manner	46% 53%			
Make most cell phone calls during the hours when the minutes are free	39%	48%		
Features they use or want				
Use cells to take pictures	34%	23%		
Would like this feature	15%	23%		
Use cells to access the internet	17%	12%		
Would like this feature	15%	17%		

Source: Pew Internet & American Life Project, Associated Press, AOL cell phone survey. March 8-28, 2006. N=1,503 (752 contacted on landlines and 751 contacted on their cell phones). In all, 1,286 cell users are in the sample. The margin of error for the cell-using population is ±3%.

Work Integration: formal and informal

- Most found work in NYC within 1-2 months of arrival (similar to the findings of Fuentes, 2007)
- Most women have worked for wages outside the home, survey: about 60% are working now.
- Those at home still contributed to household income with informal paid work including: preparing meals for single men they knew or in their households; by babysitting for other women; or by selling products (tamales, mole, spices, clothes, ethnic crafts and art) mainly to other Latinos and immigrants.

Table 1: Income and Remittances

	<u>Men</u>	Women
Average annual income	\$16,420	\$7,527
Average household income	\$30,840	\$39,687
Remttances sent by household	\$5,066	\$8,708
Remittances sent by man/woman	\$3,992	\$3,063
Remittances as a share of		
individual interviewed's income	16%	22%
household income	24%	41%
Number of remittances sent annually	14	10

(preliminary tabulations for 14 women; 12 men)

Table 3: Cell Phones and Bank Accounts survey results

	<u>Men</u>	Women
Have own cell phone?	50%	57%
Have bank account?		
In New York	50%	36%
Checking	33%	29%
Savings	16%	7%
In Mexico	17%	0%
Checking	0%	
Savings	17%	

(preliminary New York survey results for 14 women; 12 men)

Table 2: Work Integration survey results

	<u>Men</u>	Women
Currently working	92%	43%
Worked in the past	100%	100%
Sector Employed		
Manufacturing		20%
Construction	18%	
Food services	55%	20%
Domestic services	9%	45%
Health and personal services	18%	15%

(preliminary New York survey results for 14 women; 12 men)

Ongoing Research projects

- Focus on nexus between remittances, women and technology: refine survey and focus group questions regarding technology use, remittances, financial services & women's status.
- Use NY networks/MFIs to arrange matching focus groups in rural areas of the DR and Puebla.
- Use census data on women immigrants to U.S. to assess cross country impacts of migration and access to technology and financial services on status of women: labor integration, education, business ownership, access to micro finance.
- Community groups: financial development and remittances are linked across countries: credit unions in NY linked to

Survey results so far:

- About 75% of women and 90% of ment have a cell phone, 75% in both countries (extended family). More in Mexico than in the U.S.
- Women in the U.S. longer more likely to have cell phone and jobs (and businesses).
- More than half plan to return, hope to start business in Mexico, a few already have businesses in Mexico.

Research agenda

- Look at differences in women immigrants, both as primary respondents and family members.
- Strong evidence that cell phone access fairly equal by sex (more texting)
- Some limited evidence cell phones improve quality of life (safety) and access to work and family
- Direction of causality— gender or length of time here