# Tracing Informal Recruitment Relationships through a Panel Survey of Migrants

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Bilesha Weeraratne, PhD. Institute of Policy Studies of Sri Lanka.



# Motivation

- Labour migration is an important component of the Sri Lankan economy.
- Recruitment involves formal recruitment agents & informal Sub-Agents (SA).
- Involvement of SA's are common in South Asian Countries i.e. Bangladesh, India, Nepal, & Pakistan.
- These countries are grappling to regulate SA's
  - ► India : SA's are illegal/ banned
  - ► Nepal : SA's are licensed through formal agents.
  - B'desh: regulation to recruit from a national database or news paper ads. to circumvent SA's.
  - Sri Lanka: trying introduce yet another new scheme of regulations

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# Objectives

- Long term objective :
  - Recommend evidence based policies to regulate SA's.
- Immediate Objectives :
  - Understand the interaction between SAs & migrants
  - Understand the evolution of migrants' perception about SA's over the recruitment process.
  - Understand how this perception influences various migration outcomes.

Informal Recruitment Introduction



- ► Search Theory.
  - A worker's optimal strategy is to reject offers < Reservation Wage (RW), and accept offers > RW (McCall, 1970).
  - More variation in wage offers, leads to a longer wait in hope of receiving an exceptionally high wage offer.
  - job-search research has failed to examine how job seekers behaviors change during the course of their search over time (Barber et al., 1994).

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# Theoretical Background

Manpower placement agencies.

- Manpower placement agencies assembles offers of and demand for employment and makes job search more effective.
- The existence of agencies is justified if, in their absence individual decisions results in an insufficient allocation of resources devoted to job searching.

Job search networks.

- Workers connected to workers with earning high wages draw from a better wage offer distribution, than workers connected to workers earning low wages (Schmutte,2015).
- There are wage differentials between jobs found through informal and formal methods (Pellizzari, 2010).

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- What is the causal impact of migrants' ;
  - perception about SA on negotiated recruitment incentives/wages?
  - maturity in recruitment process on negotiating recruitment incentives/wages?
  - maturity in recruitment process on migrants' perception of SA's?

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# What's innovative ?

- SA's are a hidden population. Instead of SA, get opinion of migrants.
- Complicated and costly to follow migrants across two countries.
- Innovative approach :
  - capitalize on the recruitment framework in SL, where family involvement is mandatory in pre-departure stage.
  - survey of households instead of individuals capturing information from potential migrants & spouse/parents of current migrants.
  - ► two waves of rolling samples of current and potential migrant households spaced out by 6 months
    - includes a panel component
    - includes a cross sectional component
  - structures migrants as cohorts of potential and current migrants

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# Research Design

## Scope

- Female Domestic Workers (FDWs)
- Destination GCC countries
- ▶ Those who used a SA for recruitment
- Current migrant/potential migrant
  Sampling
  - ▶ 3 purposively selected districts
  - For each district used administrative data on migration preparation and departures to randomly select HHs





## Available Data Structures



Variable	%	Variable	%
Country of employment		Education of migrant	
Robrain	2.09	No education	1 17
Kuunit	40.50	Crade 1 5	1.17
Omen	49.00	Grade 1-5	00.00
Ontan	15.04	Grade 0-10	00.22
Qatar	5.42	Grade 11-13	4.01
Saudi Arabia	15.03		
UAE	13.73	Migrant is employed in Sri Lanka	
		No	76.06
Marital status of migrant		Yes	23.94
Divorced	2.71		
Married	84.01	First time migrating for foreign employment	
Never married	7.86	No	65.49
Separated	3.43	Yes	34.51
Widowed	1.99		
Age (mean)	38.14		
Age (SE)	7.33		
Wage (mean)	45457.64		
Wage (SE)	10140.82		
Incentives (mean)	161603.50		
Incentives (SE)	79480.57		

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Variable	%	Variable	%	Variable	%
Gender of SA		Decide the amount of incentives		SA showed official ID	
Female	28.91	Licensed Agent/Don't know	70.73	No	35.95
Male	71.09	SA	29.27	Yes	48.87
				Don't know	15.18
Age of SA		Involving SA is compulsory			
30-39 yrs	17.89	No	46.79	Incentives in absence of SA	
40-49 yrs	58.63	Yes	27.01	Higher amount	21.5
50-59 yrs	23.49	Don't know	26.2	Lower amount	26.74
				Same amount	51.76
Incentives		Official rep. of Licensed Agents			
Promised by Licensed Agent	44.08	No	13.46	Monthly salary in absence of SA	
Promised by SA	33.79	Yes	52.03	Higher amount	11.11
None of above	3.97	Don't know	34.5	Lower amount	26.38
SKIP	18.16			Same amount	62.51
		SA officially recognized			
Power in the recruitment process		No	10.93		
Licensed Agent/Don't know	67.12	Yes	41.37		
SA	32.88	Don't know	47.70		

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# Methodology

## Panel data: Fixed Effect Methodology

## ► Repeated XS Data: Propensity Score Matching Methodology

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# Methodology

## Panel data: Fixed Effect Methodology

- Controls for unobserved heterogeneity by subtracting them out - previous period acts as a control for an individual.
- Assumptions
  - A1. Unobserved heterogeneity is constant over time (=Time Invariant)
  - A2. Unobserved heterogeneity is additive
  - ► A3. Unobserved heterogeneity (individual specific effect) is correlated with the independent variables
- Repeated XS Data: Propensity Score Matching Methodology

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# Methodology

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- Repeated XS Data: Propensity Score Matching Methodology
  - Match cases across T & C groups
  - Key assumption: participation is independent of outcomes conditional on Xi

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# Variables

- Dependent variables
  - ▶ amount of incentives /salary (continuous)
  - higher/same or lower incentives negotiated without a SA (binary)
  - higher/same or lower wages negotiated without a SA (binary)
- Control variables
  - demographic characteristics of migrants
  - demographic characteristics of SA
  - other recruitment related variables
- ► Variables of interest :
  - indicators on migrants perception about SAs (formal/informal status; power ).
  - indicator on migration status
  - indicator on maturity in migration process

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# FE models

### Table: Causal effect of migrant's perception of SA on incentives

Y = Amount  of Incentives									
Perception indicator	(1)	(2)	(3)	(4)	(5)	(6)			
SA official representative	-16864.2 (12116.4)								
SA officially recognized	( - )	-20558.3* (11826.2)							
SA has more power in recruitment SA decides incentives for migrant SA compulsary SA showed ID			-15605.1 (11906.8)	-8762.2 (13351.4)	-7870.0 (13467.7)	-25248.2** (11096.6)			
Sigma u Sigma e Rho (fraction of variance due to u i)	67769 66297 0.5110	69262 66050 0.5237	70000 66347 0.5268	70119 66644 0.5254	69575 66665 0.5214	70133 65568 0.5336			
Ν	370	370	370	370	370	370			
Hausman test statistic (FE vs RE) P-value	22.3 0.1736	23.68 0.1284	24.1 0.1169	22.65 0.161	22.8 0.1558	25.2 0.0903			

Standard errors in parentheses \*p < 0.10 \*\* p < 0.05 \*\*\* p < 0.01

Estimated on full panel, demographics of migrants, demographics of SA, other recruitment related variables, and for current/potential status.

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## Table: Causal effect of migrant's perception of SA on incentives

Y = Incentives promised									
Perception indicator	(1)	(2)	(3)	(4)	(5)	(6)			
SA official representative	-73750.3** (26544.8)								
SA officially recognized	()	-66205.8** (29247.2)							
SA has more power		· /	-7151.0						
-in recruitment			(23644.7)						
SA decides incentives				-19713.0					
-tor migrant				(29549.8)	20617.0				
SA compulsory					(31016.4)				
SA showed ID					(31310.4)	-40012.7			
						(23501.8)			
Sigma u	93548	112696	106728	111431	109498	105199			
Sigma e	58105	60638	66672	66188	65553	63097			
Rho (fraction of variance due to u i)	0.7216	0.7755	0.7193	0.7392	0.7362	0.7354			
N	242	242	242	242	242	242			
14	242	242	242	242	242	242			
Hausman test statistic (FE vs RE)	15.960	14.850	1.220	5.340	6.930	10.620			
P-value	0.3157	0.3886	1	0.9805	0.9374	0.7155			

Standard errors in parentheses \*p < 0.10 \*\* p < 0.05 \*\*\* p < 0.01

Estimated on panel of potential migs, demographics of migrants, demographics of SA, and other recruitment related variables.

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# FE models

## Table: Causal effect of migrant's perception of SA on wages

Y = monthly wage							
Perception indicator	(1)	(2)	(3)	(4)	(5)	(6)	
A official representative	800.6 (1514.8)						
A officially recognized	()	-750.6 (1495.8)					
A has more power			-1026.0 (1495.8)				
A decides incentives			(1455.0)	-88.25			
or migrant A compulsory				(1039.3)	-3611.0**		J
A showed ID					(1573.8)	-3841.8*** (1368.9)	(1
igma u	9413	9316	9389	9368	9298	9338	
gma e ho (fraction of variance due to u i)	9514 0.4947	9515 0.4895	9509 0.4936	9521 0.4919	9392 0.4950	9330 0.5004	
1	418	418	418	418	418	418	
lausman test statistic (FE vs RE)	33.09	34.23	33.96	33.57	32	35.69	
-value	0.011	0.0078	0.0085	0.0095	0.015	0.005	

Standard errors in parentheses \*p < 0.10 \*\* p < 0.05 \*\*\* p < 0.01

Estimated on full panel, demographics of migrants, demographics of SA, other recruitment related variables, & for current/potential status.

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## Table: Causal effect of migrant's perception of SA on wages

Y = monthly wage									
Perception indicator	(1)	(2)	(3)	(4)	(5)	(6)			
SA official rep	574.3 (2363.1)								
SA officially recognized	( )	-3067.0 (2916.7)							
SA has more power			800.3						
in recruitment			(1888.3)						
SA decides incentives				2978.2					
for migrants				(1985.4)					
SA compulsory					-6692.7**				
					(2778.6)				
SA showed ID						-2898.7			
						(1911.5)			
Sigma u	15661	15968	15900	16278	16366	15841			
Sigma e	6527	6423	6514	6314	6011	6310			
Rho (fraction of variance due to u i)	0.8520	0.8607	0.8563	0.8692	0.8812	0.8631			
N	257	257	257	257	257	257			
Hausman test statistic (FE vs RE)	24.41	29.94	23.99	31.31	43.38	31.77			
P-value	0.0409	0.0078	0.046	0.005	0.0001	0.0043			

Standard errors in parentheses \*p < 0.10 \*\* p < 0.05 \*\*\* p < 0.01

Estimated on panel of potential migs, demographics of migrants, demographics of SA, and other recruitment related variables.

### Informal Recruitment

Migrants' Perception



# Table: Causal effect of maturity in recruitment process on various continuous outcomes

	Montl (ATE)	nly wage (TOT)	(ATE)	Incentive	(TOT)
Mature	3178.2* (1929.6)	5487.9*** (1350.0)	-7183.8 (9238.9)		-15113.1 (11807.4)
N	418	418	370		370

Standard errors in parentheses \*p < 0.10 \*\* p < 0.05 \*\*\* p < 0.01 nneighbor(1) matching of wave1/wave2 on demographics of migrants, demographics of SA, & other recruitment related variables.

Informal Recruitment

Impact of Maturity in recruitment process



# **PSM** models

Table: Causal effect of maturity in recruitment process on probability of perceiving :

	(1) SA offic ATE	(2) cial rep. TOT	(3) SA official ATE	(4) ly recognized TOT	(5) SA more po ATE	(6) wer in recruit. TOT	(7) SA ATE	(8) A decides incentives TOT	
Mature	0.0450 (0.0923)	0.0284 (0.0667)	-0.0900 (0.0871)	0.0142 (0.0691)	-0.564*** (0.0508)	-0.517*** (0.0754)	-0.417*** (0.0508)	-0.365*** (0.0738)	
N	422	422	422	422	422	422	422	422	
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	11
	SA com	npulsory	SA sh	owed ID	> incentive	s without SA .	>	salary without SA	
	ATE	тот	ATE	тот	ATE	тот	ATE	ТОТ	
Mature	-0.166*** (0.0550)	-0.194*** (0.0736)	0.107 (0.0859)	0.209*** (0.0666)	-0.141*** (0.0476)	-0.0474 (0.0639)	-0.116*** (0.0285)	-0.0806* (0.0438)	
Ν	422	422	422	422	422	422	422	422	

Standard errors in parentheses \*p < 0.10 \*\* p < 0.05 \*\*\* p < 0.01

nneighbor(1) matching of wave1/wave2 on demographics of migrants, demographics of SA, & other recruitment related variables.

### Informal Recruitment

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## Table: Causal effect of migration on probability of perceiving :

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SA offi	cial rep.	SA officially	/ recognized	SA more po	wer in recruit.	SA decide	es incentives
	ATE	TOT	ATE	TOT	ATE	TOT	ATE	TOT
Current mig.	-0.0703	-0.0625	-0.0693	-0.0417	-0.567***	-0.560***	-0.440***	-0.396***
	(0.0494)	(0.0682)	(0.0533)	(0.0791)	(0.0343)	(0.0502)	(0.0437)	(0.0643)
N	517	517	517	517	517	517	517	517
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	SA con	1pulsory	SA sho	wed ID	> incentive	s without SA	> salary	without SA
	ATE	TOT	ATE	TOT	ATE	TOT	ATE	TOT
Current mig.	-0.187***	-0.181***	0.176***	0.248***	-0.0709	-0.0604	-0.132***	-0.0875***
	(0.0496)	(0.0643)	(0.0565)	(0.0674)	(0.0473)	(0.0517)	(0.0238)	(0.0329)
N	517	517	517	517	517	517	517	517

Standard errors in parentheses \*p < 0.10 \*\* p < 0.05 \*\*\* p < 0.01

nneighbor(1) matching of migs/potential on demographics of migrants, demographics of SA, & other recruitment related variables.

### Informal Recruitment

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Findings

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# Summary of Findings

- Migrant's belief that SA is formal leads to lower wages / incentives.
- Maturity in the recruitment process leads to
  - higher monthly wages promised.
  - lower probability for one to perceive SA as formal.
  - lower probability of perceiving that mig could have negotiated higher wages/ incentives without a SA.
- ► Transition from potential to current migrants leads to
  - lower probability for perceiving SA as formal.
  - lower probability for perceiving SA is compulsory for recruitment.
  - lower probability of perceiving that mig could have negotiated higher wages/ incentives without a SA.

### Informal Recruitment

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Impact of Maturity in recruitment process Impact of migration

)Findings



- Migrants take time in the recruitment process to distinguish formal vs informal recruitment intermediaries.
- Formalizing SA would lead to lower wages/incentives for migrants.
- Regulations for SA ought to spell out the role and capacity of SAs in the recruitment process.
- Regulations for SA have to be widely disseminated to potential migrants.
- Better information on SA to potential migrants earlier on in the recruitment process would lead to better migration outcomes.

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Institute of Policy Studies of Sri Lanka 100/20 Independence Avenue Colombo 7, Sri Lanka T: +94-112-143-100 www.ips.lk

