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Multigenerational mobility in India / Vegaro Iversen, America Kundlus Kunal Sen

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Multigenerational mobility in India

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SOCIAL MOBILITY - WHY SHOULD WE STUDY IT?

- Intergenerational Mobility is an under-researched area in Development Economics. Quite puzzling, given the focus on poverty, inequality and (in)equality of opportunity.
- Emerging interest amongst the researchers and policy makers on Intergenerational Mobility.
- Multi-generational Mobility largely missing except for a few developed economies.

LITERATURE

Intergenerational mobility in developing countries ¹

- Educational mobility (Azam and Bhatt, 2015; Emran and Shilpi, 2015; Hnatkovska, Lahiri and Paul 2013;Hertz et al., 2007)
- Occupational mobility (Clark (*forthcoming*), 2019; Iversen, Krishna and Sen, 2017; Azam, 2015; Motiram and Singh, 2012; Hnatkovska, Lahiri and Paul, 2013; Emran and Shilpi, 2011; Bossuroy and Cogneau, 2013)
- Multigenerational mobility studied mainly in developed countries (Lindahl et al., 2015; Long and Ferrie, 2015; Zeng and Xie, 2014; Lucas and Kerr, 2013)
- Multigenerational mobility not studied in Indian context

¹Iversen, Krishna and Sen(2019) provides an in depth review.

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OUR CONTRIBUTION AND PREVIEW OF RESULTS

- Contributes towards Multi-generational Mobility.
- Multi-generational Mobility work in a developing country.

Findings

- Backward caste people are showing ↓ mobility compared to general caste.
- urban people exhibit
 mobility compared to rural people (not shocking!).



We use the India Human Development Survey-II (IHDS-II) a nationally representative dataset collected by the *University of Maryland* and the *National Council of Applied Economic Research* (NCAER) in 2011-12.

Gen 1 Gen2 RSGen2 Head Gen3 RS

OCCUPATIONAL CATEGORIES

- Category 1: Professional (Occupation codes 00-29)
- Category 2: Clerical and other (Occupation codes 30-49)
- Category 3: Farmers (Occupation codes 60-62)
- **Category 4**: Higher status vocational occupations (Occupation codes 50-52, 56-59, 79, 84-87).
- **Category 5:** Lower status vocational occupations (often caste based, traditional): 53-55, 68, 71-78, 80-83, 88-93, 96-98
- **Category 6:** Agricultural and other manual labourers, including construction workers (Occupation codes 63-67, 94, 95, 99)

MOBILITY PATTERNS ACROSS GENERATIONS



Figure: Gen 1 & Gen 2



GEN 1 HEAD & GEN 2 CASTE



GEN 2 HEAD & GEN 3 CASTE



MODEL-1

We use Solon (2004, 2014) adaptation of the Becker-Tomes model.

$$O_{i,c} = \beta_0 + \beta_1 O_{i,p} + \beta_2 O_{i,gp} + \Pi X_i + \epsilon_i$$
(1)

where

- $O_{i,c}$ = Child's occupation
- $O_{i,p}$ = Parent's occupation
- $O_{i,gp}$ = Grandparent's occupation
- $\Pi X_i = \text{Control}$
- $\epsilon_i = \text{Error term}$

MULTIGENERATIONAL MOBILITY

	Gen 2 ocp(1)	Gen 3 ocp(2)	Gen 3 ocp(3)	Gen 3 ocp(4)	Gen 3 ocp(5)	Gen 3 ocp(6)
Gen 1 occupation	0.412***			0.333***	0.136***	0.137***
	(0.00619)			(0.00920)	(0.0127)	(0.0126)
Gen 2 occupation		0.486***	0.490***		0.441***	0.445***
		(0.0102)	(0.0102)		(0.0105)	(0.0106)
Gen 2 age group			0.0985***			0.105***
			(0.0267)			(0.0268)
Constant	2.538***	2.110***	1.825***	2.717***	1.766***	1.461***
	(0.0495)	(0.0509)	(0.0878)	(0.0460)	(0.0557)	(0.0868)
Observations	36626	12796	12796	16308	12739	12739

Standard errors in parentheses

* *p* < 0.05, ** *p* < 0.01, *** *p* < 0.001

MODEL-2

We use Difference in Differences (DiD) method to exploit multigenerational nature of our data and test for mobility across different social groups

$$O_{ij} = \beta_0 + \beta_1 S_{ij} + \beta_2 G_{ij} + \beta_3 S_i * G_{ij}$$
⁽²⁾

where

- O_{ij} = Child's occupation
- S_{ij} = Social group dummy (eg. religion/caste)
- *G_{ij}* = Generation/time dummy
- $S_i * G_{ij}$ = Interaction term

MULTIGENERATIONAL MOBILITY - DID

	Occupation (1)	Occupation (2)
Time	-0.00737	0.126***
	(0.0244)	(0.0163)
Treatment=Social group (SC,ST)	1.152***	
	(0.0167)	
DID (SC,ST) ↓	0.0839**	
	(0.0339)	
Treatment=Location		-0.579***
		(0.0139)
DiD (Location) ↑		-0.366***
		(0.0284)
Constant	3.391***	4.192***
	(0.0121)	(0.00806)
Observations	48874	82386
Standard errors in parentheses		

* p < 0.1, ** p < 0.05, *** p < 0.01

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CONCLUSION

- Persistence is high!
- In-spite of having affirmative policies (quotas) for lower castes, lower caste people are showing

 mobility compared to general caste, quite puzzling! Affirmative targeted policies not working?



THANK YOU