## Education and Long Term Social Mobility in Benin

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### Motivation

Intergenerational mobility refers to the relationship between parents' social-economic status and that of their children. It measures how better off (or worse off) children/descendants are compared with their parents.

Intergenerational Social Mobility depends on innate abilities (e.g. I.Q, personal motivation, risk aversion), on family background and social environment (norms, parental investment) as well as public policies.

### Motivation

 ISM is a micro indicator of economic progress and should be central to development debates. It highlights the importance of public policies as much as the role of individuals, families in the process of development.

There is a vast literature in economics and sociology (See Black and Devereux [2011], Grusky and Weeden [2006] for a review). But it has three limitations. 1. Focuses mostly on measurement, and on OECD countries, 2. Covers only two generations and 3. Rarely discusses the effects of mobility on current attitudes

### This Paper

We use a unique social and demographic data from the first regional schools in colonial Benin to uncover intergenerational education and mobility across three generations (1895- 2016).

We investigate the causal effect of intergenerational income mobility on current generation attitudes toward risk, self-reliance, work ethics, and life outlook.

### Main Findings

- We find evidence for upward education mobility of both the second and third generations. However, the evidence suggests that the second generation moved up and the third generation moved down from their parents' income levels.
- Thus, there is a sharp decline in the return to human capital that could be attributed to the dominance of the public sector on formal labor markets: 67% of the third generation respondents are low-wage public employees and only 3% are entrepreneurs.
- Income downward mobility is associated with more risk aversion, worse life outlook and work ethics. No significant effect on mental health.

# II. Context

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### ${\sf Context}$

 Dahomey (Benin) colonized in 1894 after the Army of the Dahomey Kingdom and its "Amazones" were defeated by French colonial troops.

 Strong presence of catholic missionaries in coastal towns of Agoue and Porto Novo from 1840. Thus, de facto joint administration by Vatican and France.

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### Context

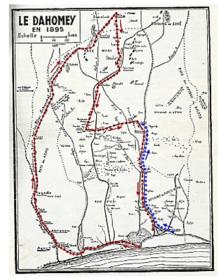
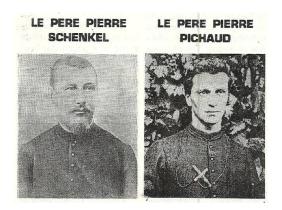


Figure A.10: Missionary Journey to Zagnanado

### Context

 Catholic and public schools were created in various regions or "cercles" during the military expansion, 8 to 10 years before the establishment of formal colonial administration.



# III. Data Collection

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### Site Selection

- Criteria for selection of treatment sites:
- 100 km from the Atlantic Coast, north of the Dahomey Kingdom that was impenetrable to Europeans settlers prior to Colonial conquest (d'Almeida Topor, 1995); no prior European settlements or institutions
- No formal educational institution exists in these regions, prior to the creation of the school. Thus, limited self-selection in education.
- Sites selected: Zagnanado (1895), Kandi (1913), Save (1911), Natitingou (1922)

### Site Selection



Figure A.1: Historical Map of Benin, Four School Sites Selection

Note: Each of the four school sites are indicated in red. Shaded area from Abomey to the coast signifies areas that are excluded from control sampling because they already possess various colonial infrastructures.

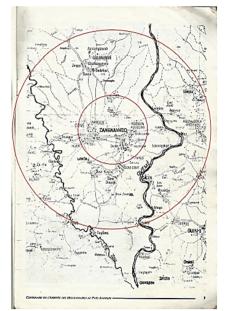
### Selection of Control Sites:

- Exclude villages that lie within 7 km from the school
- List candidates for control locations (villages 7 to 20 km from school)

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Randomly select 2 villages from the candidates

## Control Sites

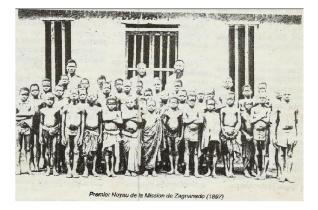


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#### Figure A.8: Historical Map of Zagnanado

Treatment 1: List the first two cohorts of students in the 4 schools (archives, cemeteries, informants)



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### Student and Control Cohort Selection

- Treatment 2: Backward/retrospective sampling of subjects from same generation as T1, who did not attend school
- Control: Backward/retrospective sampling of subjects from the same generation as T1 and T2, from a control village with no school at the time and who did not attend school. The control group was selected randomly at the start of the project.
- Socio-demographic surveys of T1, T2 and C (age, profession, education, income, siblings [maximum 10], etc.)

## Student and Control Cohort Selection



### Second Generation

- List all children of subjects in Treatment 1, Treatment 2 and Control
- ► List all siblings of subjects in T1, T2 and C
- Sample children for each subject /
- Sample siblings for each subject
- List children of sampled siblings (nephews/nieces) of each subject
- Sample nephews/nieces of each subject
- Socio-demographic surveys of sampled children and nephews

## Third Generation

Same as for Second Generation

 Survey of Time Preference, Risk Preference, Self-Reliance, Life Outlook, Mental Health

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# IV.Results

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Second Generation

#### Table 6.1 A – Transition Matrix of Education between First and Second Generations

		Second Generation Education						
		0	1	2	3			
First Generation Education	0	56.37%	25.13%	14.54%	3.96%			
	1	31.24%	29.54%	28.74%	10.48%			

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VARIABLES	(1) Odds-Ratio	(2) Odds-Ratio	(3) Odds-Ratio
Second generation Education Scale			
Second generation Wealth Scale	2.810***	2.610***	2.624***
-	(0.0920)	(0.0878)	(0.0960)
Individual-level treatment	. ,	1.501***	1.014
		(0.135)	(0.104)
Village-level treatment		1.727***	1.800***
		(0.181)	(0.212)
First generation Wealth Scale			1.465 ***
			(0.0548)
Constant cut1	$9.385^{***}$	$13.35^{***}$	$33.62^{***}$
	(0.817)	(1.384)	(4.991)
Constant cut2	47.62***	70.11***	187.8***
	(4.967)	(8.565)	(31.31)
Constant cut3	422.4***	640.3***	$1,806^{***}$
	(55.77)	(93.58)	(353.4)
Observations	2,797	2,797	2,498

Table 6.1 B – First to Second Generation Education

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

	Category						
VARIABLES	0	1	2	3			
Second generation Wealth Scale	-0.238***	0.0936***	0.123***	0.0215***			
	(-0.00901)	(-0.00742)	(-0.00658)	(-0.00184)			
Individual-level treatment	-0.00338	0.00132	0.00175	0.000306			
	(-0.0254)	(-0.00994)	(-0.0132)	(-0.00231)			
Village-level treatment	-0.146***	0.0653***	0.0687***	0.0116***			
	(-0.0289)	(-0.0151)	(-0.0125)	(-0.00226)			
First generation Wealth Scale	-0.0942***	0.0370***	0.0487***	0.00851***			
-	(-0.00925)	(-0.00449)	(-0.00514)	(-0.00101)			
Observations	2498	2498	2498	2498			
Standa	rd Errors in l	Parentheses					

Table 6.1 C - First to Second Generation Marginal Effects for Education

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

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### Table 6.1 D – Transition Matrix of Income Category between First and Second Generations

	Second Generation Income Category							
	1	2	3					
First Generation Income Category	1 65.95%	21.43%	12.62%					
	2 52.51%	27.30% 30.60%	20.19%					
Income Category	3 38.69%	30.60%	30.72%					

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V. DI - DI DO	(1)	(2)	(3)	(4)	(5)	(6)	(7)
VARIABLES	Odds-Ratio	Odds-Ratio	Odds-Ratio	Odds-Ratio	Odds-Ratio	Odds-Ratio	Odds-Ratio
Second generation Wealth Scale							
First generation	1.377***	1.037	1.037	0.968	0.968	1.037	1.037
Wealth Scale	(0.0394)	(0.0330)	(0.0330)	(0.0341)	(0.0341)	(0.0330)	(0.0330)
Second generation		4.051***	4.051***	3.764***	3.764***	4.051***	4.051***
Wealth Scale		(0.190)	(0.190)	(0.180)	(0.180)	(0.190)	(0.190)
Individual-level				1.456***	1.456***		
treatment				(0.143)	(0.143)		
Village-levelt				1.977***	1.977***		
treatment				(0.196)	(0.196)		
Constant cut1	1.268***	1.422***	1.422***	2.047***	2.047***	1.422***	1.422***
	(0.104)	(0.126)	(0.126)	(0.225)	(0.225)	(0.126)	(0.126)
Constant cut2	3.844***	5.901***	5.901***	8.878***	8.878***	5.901***	5.901***
	(0.330)	(0.545)	(0.545)	(1.015)	(1.015)	(0.545)	(0.545)
Constant cut3	7.667***	15.45***	15.45***	23.81***	23.81***	$15.45^{***}$	15.45***
	(0.702)	(1.541)	(1.541)	(2.902)	(2.902)	(1.541)	(1.541)
Constant cut4	30.12***	92.39***	92.39***	145.4***	145.4***	92.39***	92.39***
	(3.389)	(11.92)	(11.92)	(21.24)	(21.24)	(11.92)	(11.92)
Observations	2,516	2,498	2,498	2,498	2,498	2,498	2,498

Table 6.1 E - First to Second Generation Wealth

Standard Seeform in Parentheses

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

	Category						
VARIABLES	1	2	3	4	5		
Second Generation Wealth Scale	-0.0858***	0.0316***	0.0385***	0.0127***	0.00292***		
	(0.0127)	(0.00537)	(0.00593)	(0.00209)	(0.000648)		
Third Generation Education	-0.252***	0.0928***	0.113***	0.0374***	0.00858**		
	(0.0102)	(0.00851)	(0.00686)	(0.00313)	(0.00142)		
Individual-level treatment	-0.00928	0.00339	0.00419	0.00138	0.000318		
	(0.0224)	(0.00814)	(0.0101)	(0.00335)	(0.000771)		
Village-level treatment	-0.0466	0.0185	0.0201	0.00649	0.00148		
	(0.0299)	(0.0128)	(0.0124)	(0.00399)	(0.000944)		
Observations	2,139	2,139	2,139	2,139	2,139		

#### Table 6.1 F - First to Second Generation Marginal Effects for Income

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

### Third Generation

#### Table 6.2 G – Transition Matrix, Education Outcomes from Second to Third Generation

		Third Generation Education							
		0 1 2 3							
Second Generation Education	0	56.54%	34.80%	6.26%	2.24%	0.16%			
	1	11.68%	40.05%	28.77%	17.94%	1.57%			
	2		8.49%			13.54%			
	3	0.14%	0.96%	2.99%	35.26%	60.65%			

Note: Computed using Ordered Probit Regressions.

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VARIABLES	(1) Odds-Ratio	(2) Odds-Ratio	(3) Odds-Ratio
Child Education Scale			
Parent Education Scale	10.82***	10.40***	10.29***
Parent Wealth Scale	(0.782) 1.349***	(0.769) 1.257***	(0.998) 1.257***
Grandparent Education Scale	(0.0781)	(0.0772) 1.352*** (0.0761)	(0.0772) 1.326** (0.176)
Grandparent*Parent		(0.0761)	(0.176) 1.012 (0.0706)
Individual-level treatment	$0.764^{***}$ (0.0766)	0.672*** (0.0703)	0.672*** (0.0703)
Village-level treatment	(0.0700) 2.252*** (0.276)	(0.0703) 2.207*** (0.279)	2.208*** (0.280)
Constant cut1	(0.270) 47.53*** (8.485)	46.71*** (8.604)	(0.280) 46.01*** (9.416)
Constant cut2	(79.88)	372.5*** (81.37)	(5.410) 366.7*** (87.72)
Constant cut3	1,440***	(31.37) 1,451*** (316.0)	1,430***
Constant cut4	(305.5) 22,948*** (-6,610)	(316.0) 24,487*** (-7,264)	(334.5) 24,254*** (-7,351)
Observations	2,139	2.099	2,099

#### Table 6.2 H - Ordered Logit Model of Education Mobility: Odd Ratio

Robust standard errors in parentheses

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

Note: The coefficient of Parents education consistently shows a positive impact on the third generation education (positive since the odds ratio is higher than 1)

	Pane	l A: Model (1	)		
VARIABLES	1	2	3	4	5
Parent Education Scale	-0.488***	0.0549***	0.266***	0.155***	0.0121***
	(0.0171)	(0.0212)	(0.0120)	(0.0104)	(0.00195)
Parent Wealth Scale	-0.0614***	0.00691**	0.0335***	0.0194***	0.00152***
	(0.0119)	(0.00297)	(0.00664)	(0.00388)	(0.000368)
Individual-level treatment	0.0559***	-0.00806*	-0.0296***	-0.0169***	-0.00132**
	(0.0211)	(0.00438)	(0.0109)	(0.00617)	(0.000525)
Village-level treatment	-0.182***	0.0555***	0.0808***	0.0424***	0.00324***
	(0.0291)	(0.0145)	(0.0115)	(0.00568)	(0.000668)
Observations	2,139	2,139	2,139	2,139	2,139
	Pane	l B: Model (2	)		
Parent Education Scale	-0.483***	0.0632***	0.262***	0.147***	0.0108***
	(0.0175)	(0.0214)	(0.0122)	(0.0100)	(0.00179)
Parent Wealth Scale	-0.0471***	0.00617**	0.0256***	0.0144***	0.00105**
	(0.0127)	(0.00265)	(0.00695)	(0.00393)	(0.000323)
Grandparent Education Scale	-0.0622***	0.00813***	0.0337***	0.0189***	0.00139**
	(0.0116)	(0.00308)	(0.00648)	(0.00368)	(0.000350)
Individual-level treatment	0.0838***	-0.0146**	-0.0435***	-0.0240***	-0.00175**
	(0.0225)	(0.00598)	(0.0113)	(0.00617)	(0.000535)
Village-level treatment	-0.178***	0.0565***	0.0787***	0.0401***	0.00286**
-	(0.0301)	(0.0151)	(0.0118)	(0.00569)	(0.000618
Observations	2,099	2.099	2,099	2.099	2.099

#### Table 6.2 I – Ordered Logit Model of Education Mobility: Marginal Effects

Standard errors in parentheses

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

Note: Each column represents how a change in the variable of interests affects the probability of the dependent variable exhibiting a specific value. For instance, as the parent education increases, it becomes less likely that third generation is reported as 1 and it becomes more likely to have a higher level of education. As the parent scale goes up, it becomes more likely to be in the higher levels of education (3, 4 and 5, respectively)

# Table 6.2 J – Transition Matrix, wealth Outcomes from Second to Third Generation

	Third Generation Income Category						
		1	2	3	4	5	
Second Generation Income Category	1	56.74% 51.54% 46.94%	27.23%	10.26%	4.24%	1.53%	
	2	51.54%	25.16%	15.05%	6.04%	2.20%	
	3	46.94%	26.97%	15.95%	8.35%	1.79%	

Note: Computed using Ordered Probit Regressions.

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### Table 6.2 K – Ordered Logit of Wealth Mobility

	(	1)	(:	2)	(;	3)			
VARIABLES	Odds Ratio	Marginal Effect	Odds Ratio	Marginal Effect	Odds Ratio	Marginal Effect			
Parent's Wealth	0.285*** (-0.0618)	-0.0464 (0.0100)	0.777** (-0.237)	-0.1239 (0.0375)	0.781*** (-0.237)	-0.1245 (0.0376)			
Parent's Education	0.207*** (-0.0561)	. ,	0.0918 (-0.0754)	· · ·	0.095 (-0.0758)	· · ·			
Grandparent's Wealth			-0.306		-0.273				
Grandparent*Parent			(-0.19)		(-0.216) -0.0171 (-0.0536)				
Constant Cut 1	$2.183^{***}$		2.857*** (-0.4)		2.856*** (-0.4)				
Constant Cut 2	4.811*** (-0.215)		(-0.4) 5.372*** (-0.447)		(-0.4) 5.371*** (-0.447)				
Observations	2562		1612		1612				
	Standard errors in parentheses								

#### Third Generation Mobility (Ordered Logit Model)

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

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### Mechanism

	Education scale							
	1	2	3	4	5	Total		
Public	1.557	2.131	2.608	3.000	3.152	1.958		
St. Dev.	0.756	0.980	1.047	0.932	1.145	1.101		
No. Obs.	440	282	181	335	79	1850		
Private	1.209	2.145	1.712	3.118		1.768		
St. Dev.	0.608	1.028	0.779	1.409	0.000	0.987		
No. Obs.	540	716	260	34	0.000	1550		
Total	1.365	2.141	2.079	3.011	3.152	1.905		
	0.700	1.014	1.000	0.984	1.145	1.068		
	980	998	441	369	79	3559.000		

Table 7.1 A - Income Scale by Sector/Education

## Mechanism

Table 7.2 B – In-	come Scale b	v Occupation
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						Proportion in Income
Occupation	Ν	mean	St. Dev.	min	max	Scale 1 or 2
Accountant / Manager / Cashier Agricultural Engineer /		3.29	0.86	2	5	21.0
Structural Engineer	10	3.80	1.03	2	5	20.0
Commercial Agent	14	2.71	1.07	1	4	42.9
Communicator / Journalist	10	3.50	0.85	2	5	10.0
Construction Industry/						
Civil Engineering	25	3.12	0.97	1	5	28.0
Customs Officer	2	3.50	0.71	3	4	0.0
Dev Consultant	9	3.44	1.51	1	5	33.3
Diplomat		5.00		5	5	0.0
Doctor		3.50	1.73	1	5	25.0
Economist	11	3.36	1.21	1	5	27.3
Forester	3	3.33	0.58	3	4	0.0
Geographer		3.00	1.41	2	4	50.0
Hotelier	8	2.63	1.41	1	5	50.0
Lawyer	6	3.67	0.52	3	4	0.0
Magistrate		3.33	1.15	2	4	33.3
Microfinance Agent / Banker		4.11	1.05	2	5	11.1
Midwife		2.69	0.75	1	4	30.8
Nurse / Med School		2.61	0.72	2	4	52.2
Other		1.50	0.71	1	2	100.0
Priest / Religious		1.73	0.90	1	4	90.9
Professor		3.09	0.85	1	4	21.7
Unemployed		1.15	0.53	1	5	97.6
Radiologist /						
Dispensary Technician		3.43	1.16	2	5	28.6
Taxes Agent		3.00	0.00	3	3	0.0
Teacher		2.80	0.78	1	4	30.9
Veterinary / Logger / Framed		3.30	0.95	2	5	20.0
Total	947	1.35	0.53	1	5	67.90

Public Sector Employees with at Least High School Education

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## Mechanism

Table 7.2 C

Education = 2, 3, 4, or 5

	(1)	(2)	(3)
VARIABLES	Highschool or more	Highschool or more	Highschool or more
Private Sector	0.201***	0.168***	0.154***
	(0.0485)	(0.0547)	(0.0527)
Child Education Scale		0.0389	0.0498*
		(0.0301)	(0.0294)
Individual-level treatment			-0.510***
			(0.0508)
Village-level treatment			0.235***
			(0.0733)
Constant	-0.551***	-0.642***	-0.683***
	(0.0338)	(0.0779)	(0.0916)
Observations	1,350	1,350	1,350
R-squared	0.013	0.014	0.083
	Robust standard error	•	
	*** $p < 0.01, * * p <$	0.05, *p < 0.1	

	(1)	(2)	(3)	(4)	(5)	(6)
	Social Risk	Social Risk	Financial	Financial	Physical	Physical
	Aversion	Aversion	Risk	Risk	Risk	Risk
VARIABLES			Aversion	Aversion	Aversion	Aversion
Social Mobility	$-2.961^{***}$	-3.019***	-1.672***	$-1.696^{***}$	-0.696**	-0.720**
	(0.373)	(0.370)	(0.249)	(0.249)	(0.238)	(0.235)
Gender	0.0410	0.0651	- <b>0.00</b> 448	0.00580	-0.0643	-0.0546
	(0.0797)	(0.0790)	(0.0515)	(0.0515)	(0.0530)	(0.0525)
Income	-0.00935	0.00104	-0.0157	-0.0113	-0.0413*	-0.0371
	(0.0350)	(0.0346)	(0.0242)	(0.0241)	(0.0205)	(0.0207)
Treatment	0.132*		0.0474		0.116**	
	(0.0561)		(0.0362)		(0.0370)	
Individual-Level		$0.231^{**}$		0.107*		0.0294
Treatment		(0.0808)		(0.0532)		(0.0467)
Village-Level		-0.702***		-0.291***		-0.345***
Treatment		(0.116)		(0.0721)		(0.0823)
Control	2.501***	3.223***	1.701***	1.982***	0.709***	1.188***
	(0.156)	(0.150)	(0.105)	(0.0995)	(0.0970)	(0.101)
Observations	2604	2604	2604	2604	2604	2604
	Sta	andard Errors	in Parenthe	eses		

Table 8.0 A - Effect of Mobility on Risk Aversion

Standard Errors in Parentheses \* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

		Simple regre	ession model			
	(1)	(2)	(3)	(5)	(6)	(8)
	Social Risk	Financial Risk	Physical Risk	Self	Life	Work
VARIABLES	Aversion	Aversion	Aversion	Reliance	Outlook	Ethics
Rise from 1 to 2	0.826***	-0.124	0.139	0.343*	0.759***	-0.132
	(0.295)	(0.206)	(0.150)	(0.208)	(0.168)	(0.184
Down from 3 to 2	-0.148	-0.103	0.232**	-0.318**	-0.153	-0.460**
	(0.189)	(0.131)	(0.105)	(0.140)	(0.126)	(0.116
Sex of descendent	0.212	0.237**	-0.0864	0.0163	0.00720	-0.238*
	(0.162)	(0.112)	(0.101)	(0.121)	(0.104)	(0.107)
Wealth Scale	0.258**	-0.167*	-0.0356	-0.113	-0.309***	0.164*
	(0.123)	(0.0884)	(0.0698)	(0.0899)	(0.0728)	(0.0769
Individual-level						
treatment	$0.505^{***}$	-0.00683	0.192*	$0.269^{**}$	0.166	0.143
	(0.178)	(0.120)	(0.111)	(0.126)	(0.111)	(0.115)
Village-level						
treatment	-0.598**	0.106	-0.192	-0.103	0.206	-0.356*
	(0.267)	(0.182)	(0.150)	(0.187)	(0.177)	(0.152)
Constant	1.679***	1.958***	0.837***	6.013***	2.155 * * *	3.941**
	(0.494)	(0.341)	(0.270)	(0.340)	(0.305)	(0.291
Observations	470	470	470	470	470	470
R-squared	0.055	0.019	0.018	0.042	0.099	0.060

Table 8.0 B – Effect on behavioral variables. Subset of people of third generation in level 2.

Robust Standard Errors in Parentheses

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

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Table 8.1	C - Firs	t Stage	IV	Results:	Effects	of '	Treatment
		or	ı M	obility			

	(1)	(2)						
VARIABLES	Social Mobility	Social Mobility						
Treatment	-0.0153***							
	(-0.00301)							
Individual-Level Treatment		$0.0199^{***}$						
		(-0.00426)						
Village-Level Treatment		0.0081						
		(-0.00665)						
Gender	0.00532	0.00562						
	(-0.0043)	(-0.00431)						
Income	$-0.0364^{***}$	-0.0363***						
	(-0.00165)	(-0.00165)						
Control	$0.231^{***}$	$0.190^{***}$						
	(-0.00681)	(-0.00711)						
Observations	2604	2604						
Standard Error	rs in Parentheses							
* p < 0.05 ** p <	* p < 0.05 ** p < 0.01 *** p < 0.001							

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(1)(2)(3)(4)(6) (5)Social Risk Social Risk Financial Financial Physical Physical Aversion Aversion Risk Risk Risk Risk VARIABLES Aversion Aversion Aversion Aversion Social Mobility -11.59\*\*-5.678-4.768\* -2.286-8.285\*\* -5.636\* (3.934)(3.496)(2.399)(2.273)(2.874)(2.377)Gender 0.0869 0.0601 0.0120 0.000763 -0.0239-0.0359(0.0890)(0.0816)(0.0534)(0.0516)(0.0626)(0.0573)-0.323\* -0.0399-0.318\*\* -0.223\* Income -0.113-0.128(0.147)(0.131)(0.0884)(0.0843)(0.108)(0.0903)Control 4.498\*\*\* 3.296\*\*\*  $2.418^{***}$ 1.913\*\*\* 2.465\*\*\* 1.927\*\*\* (0.726)(0.502)(0.815)(0.493)(0.469)(0.605)Observations 26042604 2604 26042604 2604Standard Errors in Parentheses

Table 8.1 D – Second Stage: Effect of Mobility on Risk Aversion

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

# Appendix

(ロ)、(型)、(E)、(E)、 E のQで

	Mental Health	Mental Health	(3) Life Outlook	(4) Life Outlook
Social Mobility	0.0299	0.0324	-2.282***	-2.298***
	(0.120)	(0.120)	(0.203)	(0.203)
Gender	0.0607*	0.0597*	-0.00819	-0.00160
	(0.0259)	(0.0260)	(0.0471)	(0.0470)
Income	-0.0387***	-0.0392***	-0.218***	-0.215***
	(0.0116)	(0.0115)	(0.0197)	(0.0197)
Freatment	0.0757***	. ,	-0.0156	
	(0.0183)		(0.0323)	
Individual-Level				
Freatment		-0.0915***		$0.115^*$
		(0.0265)		(0.0490)
Village-Level				
Freatment		-0.0508		-0.140*
		(0.0380)		(0.0632)
Control	0.449***	0.662***	$2.419^{***}$	2.461***
	(0.0526)	(0.0504)	(0.0927)	(0.0762)
Observations	2604	2604	2604	2604

Table A1 – Effect of Mobility on Mental Health and Life Outlook

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

	(1)	(2)	(3)	(4)	(5)	(6)
	Social	Social	Financial	Financial	Physical	Physical
VARIABLES	Risk	Risk	Risk	Risk	Risk	Risk
Upward/Downward						
Mobility	-0.877**	-0.926***	0.0186	0.0211	0.0844	0.0721
	(0.278)	(0.271)	(0.184)	(0.185)	(0.142)	(0.142)
Gender	0.0185	0.0852	0.139	0.135	-0.0990	-0.0825
	(0.184)	(0.181)	(0.121)	(0.121)	(0.118)	(0.119)
Income	0.284*	0.330*	-0.0998	-0.102	-0.0298	-0.0185
	(0.144)	(0.141)	(0.0944)	(0.0955)	(0.0820)	(0.0816)
Treatment	-0.172		-0.0538		-0.186	
	(0.152)		(0.0922)		(0.0966)	
Individual-Level						
Treatment		0.650**		0.0294		0.304*
		(0.200)		(0.132)		(0.133)
Village-Level						
Treatment		-0.843**		0.106		-0.0639
		(0.304)		(0.191)		(0.176)
Control	$2.466^{***}$	2.529***	1.869***	1.678***	$1.204^{**}$	0.788*
	(0.664)	(0.557)	(0.409)	(0.377)	(0.385)	(0.307)
Observations	384	384	384	384	384	384

Table A2 – Effect of Upward or Downward Mobility on Risk Aversion, Mental Health, Self-reliance, and Work Ethic using Restricted Sample of Children from Income Group 2

Standard Errors in Parentheses

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

Note: Mobility equals 1 if child from income group 2 had parents in income group 3 and 0 if the child's parents were in income group 1.

	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Mental	Mental	Self-	Self-	Cynicism	Cynicism	Work	Work
VARIABLES	Health	Health	Reliance	Reliance			Ethic	Ethic
Upward Mobility	-0.0546	-0.0569	0.338	0.363*	0.569***	0.583***	-0.00198	0.0151
	(0.0815)	(0.0817)	(0.181)	(0.178)	(0.129)	(0.128)	(0.166)	(0.169
Downward Mobility	-0.0169	-0.0170	-0.181*	-0.180*	-0.249**	-0.249**	-0.224**	-0.223
-	(0.0419)	(0.0418)	(0.0922)	(0.0918)	(0.0501)	(0.0801)	(0.0829)	(0.082
Gender	0.0605*	0.0594*	-0.109*	-0.0967	-0.0238	-0.0177	-0.182***	-0.174*
	(0.0260)	(0.0260)	(0.0541)	(0.0540)	(0.0477)	(0.0476)	(0.0480)	(0.047
Income	-0.0359**	-0.0364**	-0.0345	-0.0291	-0.112***	-0.109***	0.0519*	0.0556
	(0.0125)	(0.0125)	(0.0273)	(0.0273)	(0.0233)	(0.0233)	(0.0239)	(0.023
Treatment	0.0758***		0.0368		0.00990		0.0815*	
	(0.0184)		(0.0354)		(0.0322)		(0.0321)	
Individual-Level								
Treatment		-0.0919***		0.143*		0.0837		0.039
		(0.0265)		(0.0576)		(0.0494)		(0.050
Village-Level								
Treatment		-0.0505		-0.320***		-0.157*		-0.271*
		(0.0381)		(0.0697)		(0.0642)		(0.062
Control	0.451***	0.665***	5.722***	5.990***	1.887***	1.999***	3.714***	4.063*
	(0.0461)	(0.0424)	(0.0910)	(0.0773)	(0.0818)	(0.0705)	(0.0825)	(0.071
Observations	2604	2604	2604	2604	2604	2604	2604	2604
		Stand	ard Errors	in Parenthe	905			
		* p< 0.	05 ** p< 0.	01 *** p<	0.001			

Table A3 – Effect of Upward or Downward Mobility on Risk Aversion, Mental Health, Self-reliance, and Work Ethic using Restricted Sample of Children from Income Group 2

VARIABLES	(1) Self-Reliance	(2) Self-Reliance	(3) Work Ethic	(4) Work Ethie
Social Mobility	0.0299	0.0324	-2.282***	-2.298***
	(0.120)	(0.120)	(0.203)	(0.203)
Gender	0.0607*	0.0597*	-0.00819	-0.00160
	(0.0259)	(0.0260)	(0.0471)	(0.0470)
Income	-0.0387***	-0.0392***	-0.218***	-0.215***
	(0.0116)	(0.0115)	(0.0197)	(0.0197)
Treatment	0.0757***	. ,	-0.0156	
	(0.0183)		(0.0323)	
Individual-Level Treatment		0.0915***		0.115*
		(0.0265)		(0.0490)
Village-Level Treatment		-0.0508		-0.140*
		(0.0380)		(0.0632)
Control	0.449***	0.662***	$2.419^{***}$	2.461***
	(0.0526)	(0.0504)	(0.0927)	(0.0762)
Observations	2604	2604	2604	2604

Table A4 – Effect of Mobility on Self-Reliance and Work Ethic

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Mental	Mental	Self-	Self-	Cynicism	Cynicism	Work	Work
VARIABLES	Health	Health	Reliance	Reliance			Ethic	Ethic
Up/Downward								
Mobility	0.0441	0.0569	-0.543**	-0.567**	-0.828***	-0.834***	-0.280	-0.309
	(0.0845)	(0.0857)	(0.189)	(0.184)	(0.139)	(0.138)	(0.170)	(0.177)
Gender	0.0820	0.0648	0.00404	0.0367	-0.0155	-0.00765	-0.354**	-0.314*
	(0.0620)	(0.0615)	(0.135)	(0.135)	(0.114)	(0.114)	(0.123)	(0.122)
Income	0.0307	0.0189	-0.0426	-0.0202	-0.175*	-0.170*	0.146	0.174*
	(0.0480)	(0.0484)	(0.0976)	(0.0981)	(0.0811)	(0.0814)	(0.0889)	(0.0852)
Treatment	0.116*		-0.0525	` '	-0.0411		-0.0673	`
	(0.0496)		(0.0971)		(0.0896)		(0.0966)	
Individual-Level	. ,		. ,		. ,		. ,	
Treatment		-0.238***		$0.287^{*}$		0.0971		0.352**
		(0.0640)		(0.141)		(0.123)		(0.133)
Village-Level				. ,		. ,		. ,
Treatment		0.145		-0.444*		-0.0776		-0.537*
		(0.115)		(0.195)		(0.183)		(0.178)
Control	0.0812	0.280	6.192***	6.318***	2.763***	2.707***	3.801***	3.944**
	(0.217)	(0.195)	(0.426)	(0.378)	(0.360)	(0.322)	(0.432)	(0.368)
Observations	384	384	384	384	384	384	384	384

Table A5 – Effect of Upward or Downward Mobility on Risk Aversion, Mental Health, Self-reliance, and Work Ethic using Restricted Sample of Children from Income Group 2

Standard errors in parentheses

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

Note: Mobility equals 1 if child from income group 2 had parents in income group 3 and 0 if the child's parents were in income group 1.

#### Matrices tables and ordered logit tables

Table A6

	Dependent Variable							
VARIABLES	0	1	2	3				
Second generation Wealth Scale	-0.257*** (0.00816)	$0.0994^{***}$ (0.00718)	$0.132^{***}$ (0.00598)	0.0255*** (0.00198)				
Observations	2,797	2,797	2,797	2,797				
Standard Errors in Parentheses								
* p < 0.05	** p< 0.01	*** p< 0.001	L					

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	Category							
VARIABLES	0	1	2	3				
Second generation Wealth Scale	-0.238***	0.0958***	0.120***	0.0222***				
	(-0.00836)	(-0.00691)	(-0.00591)	(-0.00178)				
Individual-level treatment	-0.0999***	0.0365***	0.0532***	0.0102***				
	(-0.0218)	(-0.00767)	(-0.0123)	(-0.00251)				
Village-level treatment	-0.136***	0.0604***	0.0638***	0.0114***				
	(-0.0258)	(-0.013)	(-0.0114)	(-0.00218)				
Observations	2498	2498	2498	2498				
Standard Errors in Parentheses * $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$								

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Table A7 – First to Second Generation Marginal Effects for Education

VADI ADI DO	(1)	(2)	(3)	(4)	(5)	(6)	(7)
VARIABLES	Odds-Ratio	Odds-Ratio	Odds-Ratio	Odds-Ratio	Odds-Ratio	Odds-Ratio	Odds-Ratio
Second generation Wealth Scale							
First generation Wealth Scale	1.377***	1.037	1.037	0.968	0.968	1.037	1.037
	(0.0394)	(0.0330)	(0.0330)	(0.0341)	(0.0341)	(0.0330)	(0.0330)
Second generation Wealth Scale		4.051***	4.051***	3.764***	3.764***	4.051***	4.051***
		(0.190)	(0.190)	(0.180)	(0.180)	(0.190)	(0.190)
Individual-level treatment				1.456***	1.456***		
				(0.143)	(0.143)		
Village-level treatment				1.977***	1.977***		
				(0.196)	(0.196)		
Constant cut1	$1.268^{***}$	$1.422^{***}$	1.422***	$2.047^{***}$	$2.047^{***}$	$1.422^{***}$	1.422***
	(0.104)	(0.126)	(0.126)	(0.225)	(0.225)	(0.126)	(0.126)
Constant cut2	3.844***	5.901***	5.901***	8.878***	8.878***	5.901***	5.901***
	(0.330)	(0.545)	(0.545)	(1.015)	(1.015)	(0.545)	(0.545)
Constant cut3	7.667***	15.45***	15.45***	23.81***	23.81***	15.45***	15.45***
	(0.702)	(1.541)	(1.541)	(2.902)	(2.902)	(1.541)	(1.541)
Constant cut4	30.12***	92.39***	92.39***	145.4***	145.4***	92.39***	92.39***
	(3.389)	(11.92)	(11.92)	(21.24)	(21.24)	(11.92)	(11.92)
Observations	2,516	2,498	2,498	2,498	2,498	2,498	2,498

Table A8

Standard Seeform in Parentheses \* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

Table	A9
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	Dependent Variable							
VARIABLES	1	2	3	4	5			
First generation Wealth Scale	-0.0725*** (-0.00639)	-0.00308** (-0.00156)		0.0362*** (-0.00361)				
Observations 2516 2516 2516 2516 2516 251								
Standard Errors in Parentheses * $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$								

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Table A10

	Dependent Variable								
VARIABLES	1	2	3	4	5				
First generation Wealth Scale	-0.00739 (-0.00649)	-0.00112 (-0.00102)	0.00299 (-0.00263)	0.00422 (-0.00372)	0.0013 (-0.00115)				
Education	-0.285*** (-0.0098)	-0.0432*** (-0.0091)7	0.115*** (-0.00767)	0.163*** (-0.00871)	0.0500*** (-0.0037)				
Observations 2498 2498 2498 2498 2498 2498									
Standard Errors in Parentheses * $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$									

Dependent Variable							
1	2	3	4	5			
0.00649	0.00102	-0.00275	-0.00368	-0.00108			
(-0.00712)	(-0.00113)	(-0.00302)	(-0.00403)	(-0.00118			
-0.267***	-0.0420***	0.113***	0.152***	0.0446**			
(-0.01)	(-0.00896)	(-0.00758)	(-0.00841)	(-0.00336			
-0.0737***	-0.0152***	0.0310***	0.0444***	0.0134**			
(-0.0188)	(-0.00528)	(-0.00798)	(-0.0121)	(-0.00383			
-0.146***	-0.00412	0.0599***	0.0707***	0.0199**			
(-0.0224)	(-0.00466)	(-0.00925)	(-0.00962)	(-0.00299			
2498	2498	2498	2498	2498			
	(-0.00712) -0.267*** (-0.01) -0.0737*** (-0.0188) -0.146*** (-0.0224)	$\begin{array}{c cccc} 1 & 2 \\ \hline 0.00649 & 0.00102 \\ (-0.00712) & (-0.00113) \\ -0.267^{***} & -0.0420^{***} \\ (-0.01) & (-0.00896) \\ -0.0737^{***} & -0.0152^{***} \\ (-0.0188) & (-0.00528) \\ -0.146^{***} & -0.00412 \\ (-0.0224) & (-0.00466) \end{array}$	$\begin{array}{c cccccc} 1 & 2 & 3 \\ \hline 0.00649 & 0.00102 & -0.00275 \\ (-0.00712) & (-0.00113) & (-0.00302) \\ -0.267^{***} & -0.0420^{***} & 0.113^{***} \\ (-0.01) & (-0.00896) & (-0.00758) \\ -0.0737^{***} & -0.0152^{***} & 0.0310^{***} \\ (-0.0188) & (-0.00528) & (-0.00798) \\ -0.146^{***} & -0.00412 & 0.0599^{***} \\ (-0.0224) & (-0.00466) & (-0.00925) \\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			

Table A11

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

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VARIABLES	(1)	(2)	(3)
Second Generation Wealth Scale	0.351***	0.395***	-0.00387
	(0.0518)	(0.0554)	(0.0622)
Third Generation Education	1.031***	1.019***	0.780***
	(0.0420)	(0.0429)	(0.0455)
Standardized values of (income)		-0.0645	-0.146***
		(0.0456)	(0.0480)
First * Second Generation Wealth			0.926***
			(0.0388)
Individual-level treatment	0.0380	0.0753	-0.588***
	(0.0918)	(0.0969)	(0.107)
Village-level treatment	0.189	0.193	0.551***
	(0.121)	(0.125)	(0.133)
Constant cut1	2.852***	$2.938^{***}$	3.468***
	(0.177)	(0.193)	(0.200)
Constant cut2	4.600***	$4.673^{***}$	5.638***
	(0.196)	(0.211)	(0.223)
Constant cut3	6.170***	$6.248^{***}$	7.915***
	(0.219)	(0.232)	(0.274)
Constant cut4	7.927***	8.029***	10.10***
	(0.282)	(0.297)	(0.347)
Observations	2,139	2,025	2,025

Table A12 – Dependent Variable: Third Generation Wealth Scale. Ordered Logit Model

	(1)	(2)	(3)	(4)	(5)
VARIABLES	1	2	3	4	5
Second Generation Wealth Scale	-0.0965***	0.0347***	0.0439***	0.0146***	0.00326***
	(0.0135)	(0.00571)	(0.00645)	(0.00234)	(0.000728)
Third Generation Education	-0.249***	0.0896***	0.113***	0.0376***	0.00840**
	(0.0104)	(0.00857)	(0.00705)	(0.00324)	(0.00144)
Standardized values of (income)	0.0158	-0.00567	-0.00717	-0.00238	-0.000532
	(0.0111)	(0.00403)	(0.00507)	(0.00171)	(0.000388)
Individual-level treatment	-0.0183	0.00650	0.00841	0.00280	0.000627
	(0.0236)	(0.00827)	(0.0109)	(0.00364)	(0.000819)
Village-level treatment	-0.0476	0.0186	0.0208	0.00674	0.00150
_	(0.0309)	(0.0129)	(0.0130)	(0.00419)	(0.000966)
Observations	2,025	2,025	2,025	2,025	2,025

Table A13

Robust Standard Errors in Parentheses

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

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	(1)	(2)	(3)	(4)	(5)
IABLES	1	2	3	4	5
nd Generation Wealth Scale	0.000896	-0.000359	-0.000461	-6.72e-05	-8.89e-06
	(0.0144)	(0.00577)	(0.00740)	(0.00108)	(0.000143)
d Generation Education	-0.181***	0.0724***	0.0928***	0.0135***	0.00179***
	(0.0106)	(0.00765)	(0.00618)	(0.00189)	(0.000384)
dardized values of (income)	0.0337***	-0.0135***	-0.0173***	-0.00253***	-0.000335*
	(0.0111)	(0.00458)	(0.00577)	(0.000904)	(0.000133)
* Second Generation Wealth	-0.214***	0.0859***	0.110***	0.0161***	0.00212***
	(0.00897)	(0.00780)	(0.00693)	(0.00203)	(0.000462)
vidual-level treatment	0.138***	-0.0611***	-0.0664***	-0.00953***	-0.00126**
	(0.0252)	(0.0123)	(0.0120)	(0.00212)	(0.000366)
ge-level treatment	-0.132***	0.0648***	0.0584***	0.00812***	0.00107***
	(0.0326)	(0.0186)	(0.0127)	(0.00201)	(0.000329)
ervations	2,025	2,025	2,025	2,025	2,025
	'	2,025 Errors in Pa	'	2,020	

\* p< 0.05 \*\* p< 0.01 \*\*\* p< 0.001

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#### First to Second Generation Predicted Probabilities

I	Income Transition Matrix				Income Transition Matrix						
		Second (	Generation 1 2	Income Category 3			Second 1	Generatio 2	n Income 3	Category 4	5
First Generation Income Category	1	65.95%	21.43%	12.62%	First Generation	1	47.94%	25.68%	11.15%	10.85%	4.37%
	2 3	52.51% 38.69%	27.30% 30.60%	20.19% 30.72%	Income Category	2 3 4	40.07% 32.69% 26.07%	26.86%	13.21% 15.05% 16.41%	13.91% 17.43% 21.27%	5.92% 7.98% 10.67%

Proportions	
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I	me Tran	sition Mat	rix	Income Transition Matrix							
	Second	Generation I	Second Generation Income Category								
		1	2	3			1	2	3	4	5
First Generation Income Category	1	64.0	25.4	10.6	First Generation Income Category	1	40.0	34.3	12.1	10.6	3.0
	2	56.0	23.5	20.5		2	41.5	27.4	13.1	12.5	5.4
	3	38.3	28.3	33.4		3	33.8	27.4	15.7	13.9	9.3
						4	32.5	22.1	12.3	21.9	11.2
						5	18.5	12.9	20.5	33.3	14.9

Note: Probabilities computed with an Ordered Probit Model

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First to Second Generation Predicted Probabilities												
Educa	tio	n Transit	tion Mat	rix		E	duo	ation Tr	ansition	Matrix		
Second Generation Education						Third Generation Education						
		0	1	2	3			1	2	3	4	5
First Generation Education	0	56.37%	25.13%	14.54%	3.96%	Second Generation	0	56.54%	34.80%	6.26%	2.24%	0.16%
	1	31.24%	29.54%	28.74%	10.48%	Education	1 2 3	11.68% 1.33% 0.14%	40.05% 8.49% 0.96%	28.77% 19.72% 2.99%	17.94% 56.91% 35.26%	1.57% 13.54% 60.65%

					Pr	oportions						
Educa	tior	ı Transit	tion Mat	rix		E	duc	ation Tr	ansition	Matrix		
Second Generation Education						Third Generation Education						
		0	1	2	3			1	2	3	4	5
First Generation Education	0	61.49	30.99	6.81	0.71	Second Generation Education	0	58.23	25.39	15.71	0.00	0.68
	1	59.06	30.10	9.28	1.56		1	3.74	62.33	13.77	20.17	0.00
							2	0.00	0.74	20.96	58.82	19.49
							3	0.00	0.00	0.00	57.14	42.86

Note: Probabilities computed with an Ordered Probit Model

#### Table A17

Education $= 1$	Ed	ucation =	1
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	Luicatio	1 – 1	
VADA DI DA	(1)	(2)	(3)
VARIABLES	Primary or Secondary	Primary or Secondary	Primary or Secondary
Private Sector	0.00446	0.00446	0.00852
	(-0.0563)	(-0.0563)	(-0.0547)
Child Education Scale = o		-	-
Individual-level treatment			-0.589***
			(-0.0581)
Village-level treatment			0.332***
			(-0,0726)
Constant	-0.584***	-0.584***	-0.646***
	(-0.0352)	(-0.0352)	(-0.067)
Observations	789	789	789
R-squared	0	0	0.11
	Robust Standard Erro	ors in Parentheses	

RODUST Standard Errors in Parentheses

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

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