Understanding Rural Private School Performance

Nick Eubank

November 7, 2012

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But why are private schools better?

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- Clearly improvement over public schools.
 - ► Chaudhury et al., 2006; Muralidharan and Kremer, 2008

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- ▶ Pay for performance, fire bad teachers.
- Clearly improvement over public schools.
 - ▶ Chaudhury et al., 2006; Muralidharan and Kremer, 2008
- Importance shown in US research.
 - ▶ Banerjee et al., 2007; Hanushek, 1997; Hanushek, 2003

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If true, then private school superiority is illusory.

Vouchers could result in massive mis-allocation of resources.

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Tells us that *at least* half of private school premium comes from selective sorting, not better teaching.

Outline

Methodology

Fractionalization and Performance

Teaching Quality

Selective Sorting

Summary

Data

Learning and Educational Attainment in Punjab Schools (LEAPS)

- ▶ 2003-2007 panel data with data from teachers, students, households, and owners.
- One four year panel (12,110 children)
- One two year panel (11,852 children)
- Includes: Child Test Scores, Teacher Test Scores, Parental Educational, HH Wealth
- Test scores are normalized using IRT mean 0, standard deviation 1.
- 112 Villages in Three Districts







Lagged-Value-Added Model:

$$Y_{i,t} = \alpha_t X_{i,t} + \alpha_{t-1} X_{i,t-1} + \dots + \alpha_1 X_{i,1} + \epsilon_{i,t}$$
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- All past scores included to control of measurement error.

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- Flexible persistence parameter
- All past scores included to control of measurement error.
- Controls for differences in initial levels, but not differences in rates.

Village Level:

1. Run Lagged-Value Added regressions with village-school type dummies for each village *j*.

$$Y_{i,t} = X_{i,t}\alpha + Y_{i,t-1}\beta + \mathbb{I}_{i,j,type,t}\gamma_{j,type} + \epsilon_{i,t}$$

- 2. Extract dummies and calculate village public-private gap.
- 3. Analyze at level of village.

$$Gap_j = Z_j\delta + \eta_j$$

Teacher Level:

1. Run Lagged-Value Added regressions with teacher fixed effects dummies for each teacher *k*.

$$Y_{i,t} = X_{i,t}\alpha + Y_{i,t-1}\beta + \mathbb{I}_{i,k,t}\zeta_k + \epsilon_{i,t}$$

- Extract fixed effect coefficients as estimates of teacher contributions
- 3. Analyze at level of teacher (weighted by number of students).

Outline

Methodology

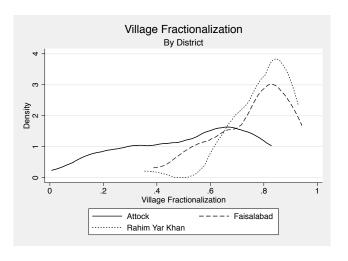
Fractionalization and Performance

Teaching Quality

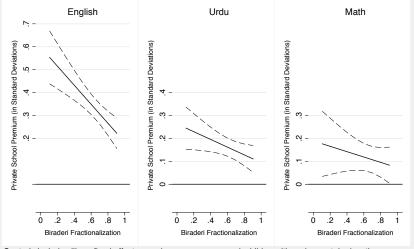
Selective Sorting

Summary

Caste in Punjab

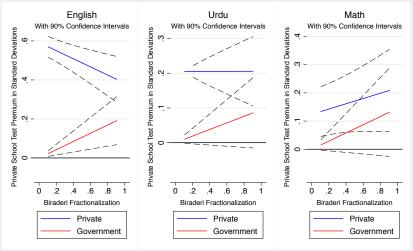


Caste Fractionalization and Value Added Scores With 90 Percent Confidence Intervals



Controls include village fixed effects, gender, age, age squared, child wealth and parental education

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Table 4: Private Teacher Characteristics and Village Fractionalization

	(1)	(2)	(3)	(4)	(5)	(6)
	Days Absent	Female	From Village	Teacher English Exam Score	More than Grade School Education	Basic School Facility Index
Biraderi Fractionalization	-0.91	-0.052	0.31*	0.19	0.20*	-0.023
	(-1.32)	(-0.60)	(1.71)	(1.06)	(1.68)	(-0.07)
Median Village Expenditures	0.000054	0.0000057	0.0000030	0.000016	0.000013	0.000049
•	(0.64)	(0.46)	(0.12)	(0.50)	(0.68)	(1.13)
Log Number of Households	-0.29	-0.030*	-0.036	0.045	0.0072	-0.13
	(-1.47)	(-1.67)	(-0.74)	(0.86)	(0.29)	(-1.43)
District Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes
Observations	1494	1494	1494	768	1494	493

All results clustered at the village level.

All regressions weighted by number of students. Robust t-statistics presented in parenthesis.

^{*} p;0.10, ** p;0.05, *** p;0.01

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Table 5: Government Teacher Characteristics and Village Fractionalization

	(1)	(2)	(3)	(4)	(5)	(6)
	Days Absent	Female	From Village	Teacher English Exam Score	More than Grade School Education	Basic School Facility Index
Biraderi Fractionalization	-0.33	0.099	0.26	0.093	-0.10	0.32
	(-0.34)	(0.72)	(1.20)	(0.36)	(-0.84)	(0.63)
Median Village Expenditures	-0.00018	0.000026	-0.0000068	0.000052*	0.000021	0.000033
•	(-0.99)	(0.99)	(-0.23)	(1.75)	(1.23)	(0.53)
Log Number of Households	-0.33	-0.040*	-0.040	0.034	0.000076	-0.094
	(-1.41)	(-1.80)	(-0.59)	(0.71)	(0.00)	(-0.85)
District Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes
Observations	988	988	988	477	988	291

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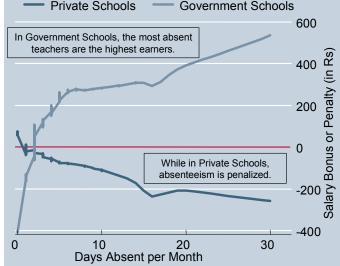
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Teacher Absenteeism and Compensation — Private Schools — Government Schools — Government Schools, the most absent



Teacher Compensation

And Student Test Scores

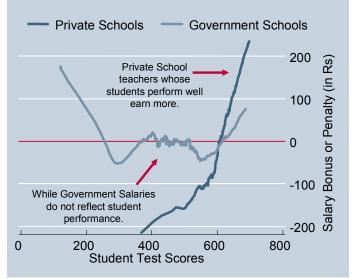


Table 6: Village Fractionalization and Teacher Compensation Duirrota Taaah ana Carramenant Tasahan

	Private	Teachers	Government Teachers		
	(1)	(2)	(3)	(4)	
	Log Salary	Log Salary	Log Salary	Log Salary	
Days Absent Last Month	0.041**	-0.0068	0.0017	0.0041***	
	(2.00)	(-0.85)	(0.40)	(2.79)	
Biraderi Fractionalization	0.24	0.21	-0.085	-0.050	
	(1.18)	(0.78)	(-1.47)	(-0.74)	
Days Absent * Fractionalization	-0.063**		0.0050		
	(-2.05)		(0.77)		
Gender	-0.32***	-0.27**	-0.012	0.0095	
	(-3.78)	(-2.17)	(-0.72)	(0.54)	
Age of teacher	0.0053	0.023**	0.021***	0.018***	
	(1.21)	(2.54)	(12.18)	(14.48)	
Average Value Added Score		0.22		-0.033	
		(0.48)		(-0.48)	
Value-Added * Fractionalization		-0.47		-0.020	
		(-0.67)		(-0.22)	
Constant	7.07***	8.02***	7.51***	7.60***	
	(29.09)	(20.15)	(47.83)	(61.24)	
District Fixed Effects	Yes	Yes	Yes	Yes	

Controls for Experience and Teacher Education excluded from table. Robust t-statistics clustered at the village level in parenthesis * p;0.10, ** p;0.05, *** p;0.01

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A Sorting Story

Homogenous Villages: Children sort on academic potential. Fractionalized Villages: Children also sort by social status.

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Homogenous Villages: Children sort on academic potential. Fractionalized Villages: Children also sort by social status.

1. Parents pick winners

Sorting

Table 7: Child Test Scores and Fractionalization

	English		Urdu		Math	
	(1)	(2)	(3)	(4)	(5)	(6)
Private School	0.31***	0.29***	0.14***	0.14***	0.11***	0.087**
	(10.98)	(10.42)	(5.74)	(5.65)	(3.17)	(2.58)
Biraderi Fractionalization	0.13*	0.096	0.085	0.069	0.13	0.13
	(1.70)	(1.33)	(1.26)	(1.08)	(1.34)	(1.46)

Sorting

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Private School	0.31***	0.29***	0.14***	0.14***	0.11***	0.087**
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(1)

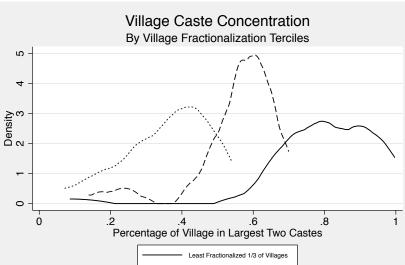
Table 9: School Choice and Child Intelligence

(2)

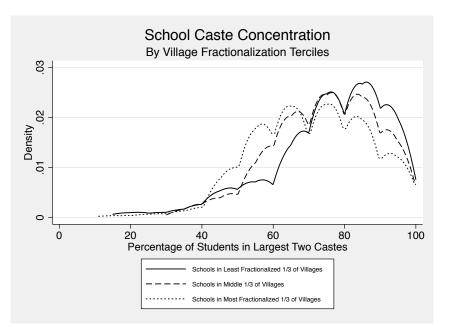
Mom Reports Child Above Average Intelligence	0.058**	0.041*
	(2.82)	(1.99)
Mom Has Some Schooling	0.080	-0.032
	(1.51)	(-0.27)
Mom Has Some Schooling	0.084**	0.084
	(3.23)	(0.71)
Log Month Expenditure	0.043	-0.038
	(1.78)	(-1.05)
Age	-0.021***	-0.017**
	(-3.76)	(-3.26)
Age Squared	0.00025	0.00017
	(1.78)	(1.64)
Female	0.029	-0.0012
	(1.27)	(-0.04)
Constant	-0.24	0.35
	(-1.13)	(1.85)
Village Fixed Effects	Yes	No
Household Fixed Effects	No	Yes
Observations	3426	3426

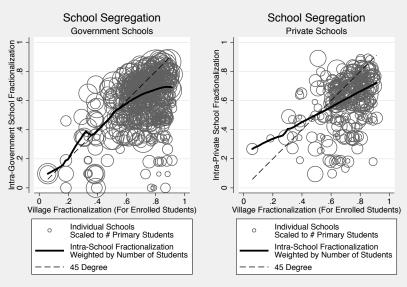
^{*} p < 0.05, ** p < 0.01, *** p < 0.001

t statistics in parentheses









Fractionalization is probability two randomly chosen students will be from different castes.

	Pct of Students High Status	Pct of Students High Status
Private School	-0.11**	-0.13**
	(-2.30)	(-2.13)
Biraderi Fractionalization	-0.047*	-0.19***
	(-1.85)	(-14.78)
Fractionalization * Private	0.18**	0.21**
	(2.34)	(2.15)
Median Village Expenditure	0.0000014	
	(0.87)	
Village: Pct Adults Literate	0.00022	
	(1.22)	
Log Village Size	0.00074	
	(0.16)	
Village: Pct High Status	1.01***	
_	(62.12)	
Constant	-0.0039	1.00***
	(-0.10)	(83.16)
District Fixed Effects	Yes	No
Village Fixed Effects	No	Yes
Observations	782	782

t statistics in parentheses * p_i0.10, ** p_i0.05, *** p_i0.01 (1)

(2)

	(1)	(2)		
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Log Village Size	0.00074			
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District Fixed Effects	Yes	No		
Village Fixed Effects	No	Yes		
Observations	782	782		
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Fractionalization and Prices

	(1)	(2)	(3)
	Weighted by School	Weighted by School	Weighted by Primary Students
Biraderi	504.7**	527.9**	608.6**
Fractionalization	(2.33)	(2.50)	(2.37)
Village: Median		61.6	20.8
Expenditures		(1.25)	(0.44)
Expenditure Gini		-49.9	45.5
		(-0.24)	(0.20)
District Fixed Effects	Yes	Yes	Yes
Observations	287	287	285

t statistics in parentheses

^{*} p;0.10, ** p;0.05, *** p;0.01

Inconsistencies

Table 13: School Choice and Child Intelligence

	All		High Status		Low Status	
	(1)	(2)	(3)	(4)	(5)	(6)
Mom: Child Above Avg Intelligence	0.056	0.063	0.15	0.085	0.075	0.28
Biraderi Fractionalization	(0.66) -0.022	(1.01) 0.19	(1.53) 0.90***	(1.22) 0.18	(0.41)	(1.25) 0.45**
Bilaucii Fiactionanzation	(-0.55)	(1.00)	(22.83)	(0.76)		(2.64)
Child Above Avg * Fractionalization	0.0029	-0.031	-0.14	-0.067	-0.067	-0.35
	(0.02)	(-0.35)	(-0.96)	(-0.64)	(-0.26)	(-1.19)

Inconsistencies

Table 13: School Choice and Child Intelligence

	All		High Status		Low Status	
	(1)	(2)	(3)	(4)	(5)	(6)
Mom: Child Above Avg Intelligence	0.056	0.063	0.15	0.085	0.075	0.28
Biraderi Fractionalization	(0.66) -0.022 (-0.55)	(1.01) 0.19 (1.00)	(1.53) 0.90***	(1.22) 0.18 (0.76)	(0.41)	(1.25) 0.45** (2.64)
Child Above Avg * Fractionalization	0.0029	-0.031	-0.14	-0.067	-0.067	-0.35
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Sorting Paradox

Why pay more for the same education?

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Neighborhood Effects: Students performance is affected by peers

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Why pay more for the same education?

Neighborhood Effects: Students performance is affected by peers

Networking: About forming positive associations.

- In homogenous villages, most important association is intelligence.
- ▶ In fractionalized villages, caste matters too.

Outline

Methodology

Fractionalization and Performance

Teaching Quality

Selective Sorting

Summary

Take-aways:

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- ► Test in India

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Things I would like from you:

- Alternative explanations for convergence?
- Alternative tests for this explanation?