Powerful Parental Preferences

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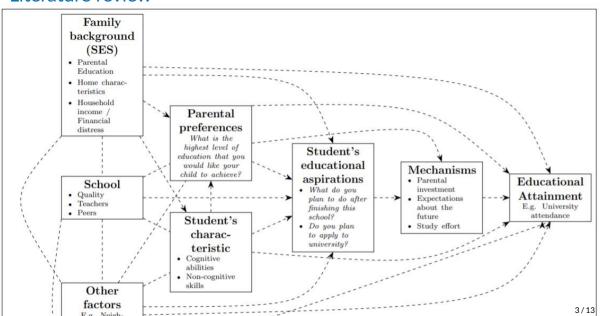
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WORK IN PROGRESS

Literature review

- Parental expectations and aspirations: what parents think and hope their child will do in the future (Saha, 1997; Jacob and Wilder, 2010)
- Parental investments: strongly associate with parental preferences, and strongly predict life outcomes (Cooksey and Fondell, 1996; Carneiro et al., 2013; Attanasio et al., 2019)
- Family background affect parental and student educational aspirations (Schoon and Parsons, 2002; Schoon et al., 2007; Willitts et al., 2005)
- Parental and student aspiration are utmost important in predicting educational outcomes (Polidano et al., 2013; Chowdry et al., 2011)

Literature review



Novelty of our paper

- Show that parental preferences are very strong predictors of educational outcomes

Empirical method: Post Double Selection (PDS) Lasso

(Ahrens et al. (2019), Belloni et al. (2012, 2011, 2014b,a, 2016))

$$C_i = \alpha P_i + X_i' \gamma + \xi_i$$

- 1. Select set of controls that predict the treatment variable P_i (parental preferences)
- 2. Select set of controls that predict outcome variable C_i (college attendance)
- 3. Estimate the effect of treatment on outcome α with the union of the control variables selected in step 1 and 2
- With lasso, those control variables are selected which make the best *out-of sample* prediction for the actual dependent variable.
- Lasso 'penalizes' heavily the inclusion of new variables, so number of variables is limited.

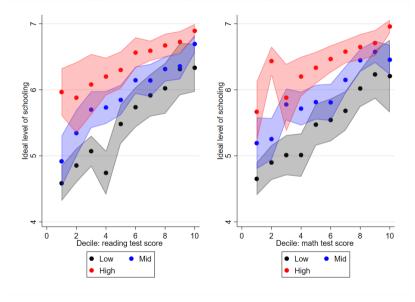
Data

- Life Course Survey (Életpálya)
- The sample of 10,000 adolescents who completed the Hungarian National Assessment of Basic Competencies in the 8th grade in May 2006.
- 6 waves, panel data from about 7600 students (due to attrition).
- Parents' aspirations:
 - Ideal: What is the highest level of education that you would like your child to achieve?
 - Minimum: What is the level of education that you consider your child should attain?

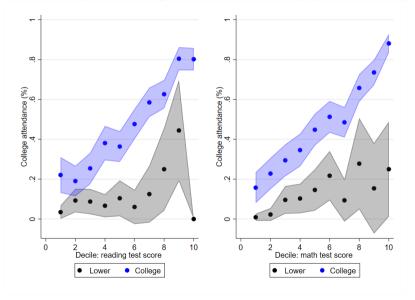
Data - 2

- Very rich data set, 4910 distinct questions, not all relevant for us.
- Family background. Usual information (parental education, household income) and many more, e.g. education of the grandparents. Importantly, HOME (Home Observation for Measurement of the Environment) scale, 27 questions, cognitive and emotional.
- **Individual characteristics**. Babyhood (birth weight, length of breastfeeding), childhood (if the parents read tales, if they played board games), health (all major diseases), self-evaluation, future expectations, (un)healthy habits (smoking, drug use), friends.
- **School environment**. School performance, schooling history, class characteristics (e.g. in terms of SES), extracurricular activities etc. Structure of data collection

Parental aspirations (by level of parental education)



Probability of college attendance (by parental aspirations)



	base	exog	(2)+cogn	(3) +	(4) + school quality (5)
	(1)	(2)	(3)	noncogn (4)	
Ideal education for child: university (2006)	0.456*** [0.026]	0.317*** [0.028]	0.212*** [0.029]	0.212*** [0.029]	0.135*** [0.029]
Parents' education		yes	yes	yes	yes
Financial background		yes	yes	yes	yes
Home environment		yes	yes	yes	yes
Cognitive (test scores)			yes	yes	yes
Noncognitive traits				yes	yes
School quality					yes
Observations	1,709	1,709	1,709	1,709	1,709
R2					
Clusters	631	631	631	631	
Selected controls	0	7	9	9	

Dictionary size

114

116

123

	base (1)	exog (2)	(2)+cogn (3)	(3) + noncogn (4)	(4) + school quality (5)	(4) + school FE (6)
Ideal education for child: university (2006)	0.456*** [0.026]	0.317*** [0.028]	0.212*** [0.029]	0.212*** [0.029]	0.135*** [0.029]	0.136*** [0.033]
Parents' education Financial background Home environment Cognitive (test scores) Noncognitive traits School quality School FE Student's aspirations Expectations Effort		yes yes yes	yes yes yes yes	yes yes yes yes	yes yes yes yes yes	yes yes yes yes yes
Observations R2	1,709	1,709	1,709	1,709	1,709	1,709 0.626
Clusters Selected controls Dictionary size	631 0 0	631 7 114	631 9 116	631 9 123	631 9 139	

	base	exog	(2)+cogn	(3) + noncogn	(4) + school quality	(4) + school FE	(5) + Student aspirations
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Ideal education for child: university (2006)	0.456*** [0.026]	0.317*** [0.028]	0.212*** [0.029]	0.212*** [0.029]	0.135*** [0.029]	0.136*** [0.033]	0.057** [0.025]
Parents' education		yes	yes	yes	yes	yes	yes
Financial background		yes	yes	yes	yes	yes	yes
Home environment		yes	yes	yes	yes	yes	yes
Cognitive (test scores)			yes	yes	yes	yes	yes
Noncognitive traits				yes	yes	yes	yes
School quality					yes		yes
School FE						yes	
Student's aspirations Expectations Effort							yes
Observations R2	1,709	1,709	1,709	1,709	1,709	1,709 0.626	1,709
Clusters	631	631	631	631	631		631
Selected controls	0	7	9	9	9		10
Dictionary size	0	114	116	123	139		140

12/13

Thank You for Your Attention!