



TITLE: The Effects of Private Schooling in University Acceptance in
Catalonia

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Abstract

About a third of secondary level students in Catalonia receive some form of private schooling. One would believe, then, that receiving this form of education may raise the probability of accessing university. To try to answer this question, we collected data from over 6500 individuals in Catalonia, and computed estimations on the different factors that affect university access. The results on the estimations show that concerted schools do raise the chances of accessing university, but private schooling is not significant. Moreover, we were able to capture other relevant factors, predicting correctly around 65% of the cases.

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1. INTRODUCTION

During the school-year 2016/2017, 34.5% of all secondary school students in Catalonia received a form of private schooling. The previous year, around 8.7% of students attended a private institution. Considering that there are over half a million secondary school students, this suggests a high demand for private schooling. University education follows a similar pattern, in which roughly 11% of students attend a private university.

Previous research [1] (Scheper, 2013) reflects on the fact that private schools in the USA are generally regarded as better than their state counterparts, and that parents may feel that they are offering a better education to their children in this way. Other researchers, look into how private schooling affects the performance of public schools [2] (Marlow, 2010), or the differences in cognitive outcomes according to the type of school attended [3] (Coleman, Hoffer and Kilgore, 1982). Moreover, there is also research on the use of SAT scores to compare schools [4] (Fetler, 1991). Further research goes into how high school drop out rates are affected by higher university enrollment rates [5] (Bedard, 2001), and the demand for private schooling under different institutional arrangements [6] (Stiglitz, 1974).

However, there is little research on the validity of the premise that attending a private school will increase the chances of accessing university or having better opportunities after studying. This research project seeks to determine whether or not attending a private school has any effect on university acceptance in Catalonia. Thus, for this project, we have gathered data from over 5,000 adults who studied in Catalonia between grades 1 and 12. The resulting sample, is divided between individuals born before and after 1981, when the Spanish education system was last changed as a whole. From this data set, we have done several estimations to assess the effects of different environmental factors into university acceptance.

2. PREPARING THE DATA

To be able to make estimations about the Catalan population, it was necessary to first collect the data from individuals who studied in Catalonia. Then, the data was cleaned and prepared for its use in statistical software.

2.1. Gathering the Data

To collect the data, we prepared a survey in which we asked individuals about several factors that were thought to be relevant. The survey with all the questions can be found in Appendix 1. We want precise information on the individual's education, but also general information about their family and economic situation. We do find some measurements difficult to get, since we are relying on the individuals' capacity of remembering the situation about their childhood. Thus, when it comes to family earnings, we need to take some approximate measure of the economic situation. To do so, we ask the individual about their perception of the family's situation during their childhood, and then we ask for the postal code where they lived in.

Once the survey was ready, we started spreading it to get answers. To try to ensure a correct sampling of the population, the survey was published in cities' and towns' Facebook groups ¹ The criteria to choose the groups where it would be published was for the town or city to have at least 10,000 inhabitants (in some cases 9,000 if the latest data was a few years old), and then look for groups which had at least (or close to) 1,000 members. If there were several groups fulfilling these characteristics, we would try to publish in as many of them, especially for large cities. However, we tried to get the publication in at least two groups for the same city.

We requested access to 373 groups around Catalonia. Some of them required that we explain why we want to access the group, in which case we explained the purpose of the survey to the administrators. Most of the groups accepted our application. In some cases, the publication itself had to be approved by the administrator, and in most cases it was. However, a few groups eliminated the publication. Eventually, we were able to collect 6,561 answers over the course of three weeks. From these, 82.8% were female, and 83.4% had finished studying.

2.2. Cleaning the Data

When preparing the survey, we were aware that we needed a sizeable sample (300-600 answers), and we were aware of the difficulty that others have faced in collecting it. Hence, we prepared the survey expecting a sample that was a tenth of the one we obtained. This

¹In Spain, it is popular to have and participate in Facebook groups for the town, city or neighborhood people live in.

meant that some questions that had a lot of possible answers -i.e. birth year, number of siblings, parents age, postal code, etc - were left as open questions. Thus, cleaning the data became a much larger task than initially expected.

To effectively do so, we used R, since it was the most efficient alternative. With such a large sample it may have been tempting to just eliminate those who did not answer in the expected way, but after serious consideration, it was better to try and maintain as many as possible to avoid a sample bias. The questions that required the most detail cleaning were those about birth order, parents' age when they had the first child, and postal code. Furthermore, given the amount of answers, we decided to leave untouched the questions about the parents' job and the bachelor's degree individuals accessed if they were accepted to university.

It was necessary to eliminate any answer that was not plausible -such as too many siblings, parents are too young or too old-, those that were too young -born after the year 2000- and those that did not study in Catalonia. Once we cleaned the data, we were left with 5,918 answers.

2.3. Preparing the Data

Over the cleaned data, we continued working in R to dummify the necessary variables. That is, we created dummies for the parents study level, their housing situation, and other factors necessary for our measurements. Moreover, we used the postal code to determine in which city or town the person grew up. With that, we were able to relate their city or town with the average income in 2016 for these areas. Because Barcelona is a lot larger than any other city in Catalonia, we decided to create another variable where individuals from the city were related to the average income in the neighborhood in 2015 instead of the whole city.

From here, we moved on to the statistical software we would later use to make the estimations. Here we created interaction terms between several factors, and we separated the sample between individuals born before and after 1981.

3. GENERAL RESULTS

We are particularly interested in the group of individuals born after 1981 -those who studied with the current education system in Spain. However, it is interesting to see how these results change for the population as a whole and for the older individuals (born before 1982). It is important to note that, in the younger group, 48.6% of the subjects did access university, while in the older group, that was true for only 29.3% of them.

3.1. Computing the Estimations

Given that we want to regress on *accessed*, we will use a probit model where the fitted value, $\widehat{accessed}$, is a continuous variable. If $\widehat{accessed}$ is above 0.5, we predict that that individual does access university, and that they do not otherwise. After considering several different models, the one that fits best the objective of this research will be the one in equation 1.

$$\begin{aligned}
 accessed_i = & \beta_0 + \beta_1 \cdot gender_i + \beta_2 \cdot siblings_i + \beta_3 \cdot m_first_i + \beta_4 \cdot public_i \\
 & + \beta_5 \cdot concerted_i + \beta_6 \cdot private_i + \beta_7 \cdot extra_help_i + \beta_8 \cdot sport_i \\
 & + \beta_9 \cdot not_married_i + \beta_{10} \cdot m_accessed_i + \beta_{11} \cdot f_accessed_i \\
 & + \beta_{12} \cdot tarragona_i + \beta_{13} \cdot girona_i + \beta_{14} \cdot lleida_i + \beta_{15} \cdot early_work_i \quad (1) \\
 & + \beta_{16} \cdot eco_proxy_2_i + \beta_{17} \cdot eco_proxy_3_i + \beta_{18} \cdot eco_proxy_4_i \\
 & + \beta_{19} \cdot eco_proxy_5_i + \beta_{20} \cdot eco_proxy_6_i + \beta_{21} \cdot l_NB_i + u_i
 \end{aligned}$$

Where:

- *accessed*: 1 if the individual has accessed university.
- *gender*: 1 = *female*
- *siblings*: number of siblings the individual has. If the individual is an only child, this number is 0.
- *m_first*: age at which the mother had her first child.
- *public*, *concerted* and *private*: number of courses the individual did at a public, concerted or private school respectively, and $\forall i \in (0, 12)$.

- *extra_help*: whether the individual received tutoring, reinforcement, extracurricular classes or psychopedagogic assistance during at least a year.
- *sport*: whether the individual practiced sport outside school for at least a year.
- *not_married*: if the parents of the individual where not in a stable couple.
- *m_accessed* and *f_accessed*: whether the mother and the father respectively accessed university.
- *tarragona*, *girona* and *lleida*: whether the individual lived in Tarragona, Girona or Lleida respectively.
- *early_work*: 1 if the individual started working before age 18.
- *eco_proxy_j*: in reference to the perceived economic situation of the individual and $j \in (1,6)$.
 - $j = 1$: difficulty to cover basic needs.
 - $j = 2$: could just cover basic needs.
 - $j = 3$: could afford occasional luxuries.
 - $j = 4$: could afford regular luxuries.
 - $j = 5$: could afford even more luxuries.
 - $j = 6$: money was not a limiting factor.
- *l_NB*: logarithm of the average income in 2016 in the neighborhoods in Barcelona, and towns everywhere else.

As earlier mentioned, we separated the sample in two groups. After dropping the incomplete answers, the model with the full sample uses 5817 observations. Likewise, the model for individuals born before 1982 uses 3281 observations, and the one for individuals after 1981, uses the remaining 2536. In table 1, we can observe the estimations for the model with different samples, with their standard error and significance level. Before analyzing the effect of different variables in university acceptance, it is interesting to analyze the effectiveness of the models.

Looking into table 2, we see that the one that predicts the most observations correctly is the one for individuals born before 1982. However, looking at table 3, we see that the

model mostly predicts correctly those that did not go to university. This is consistent with the results for the full sample, even though this one does predict correctly more observations where the individual accessed university. Thus, looking at tables 2 and 3 again, we see that for individuals born after 1981 the percentage of correctly predicted observations is lower, but its distribution is a lot more uniform. While it is not precise, it does predict that roughly half of the sample would access university, which is consistent with the percentage of individuals that actually did.

3.2. Analysis of Results

Looking at table 1, we are first interested in the effects of attending a private school. We see that in all three estimations, attending a private school is not relevant at a 10% significance level. However, we see that attending a public or private school does increase the chances of accessing university. We also see that gender has no relevance in university entry in any of the estimations, and that the number of siblings is only relevant at a 10% level. Moreover, we see that the parents' education is considerably relevant, as well as starting to work before the age of 18. The age at which the mother had her first child, seems to gain importance as time goes by, which is consistent with Spanish women choosing to have children later in life.

Similarly, the number of siblings was more significant in the first time period than in the second, which is also consistent with the decline in the number of children per women. We must also highlight that the economic situation of the family seems to have been more important before than it is now, except for level 5. In the same way, the average income per capita in the neighborhood or town, does not seem to be of any relevance. Finally, the results for all three estimations suggest that individuals would have a higher chance of accessing university if they do not live in Barcelona, but these results are only relevant at a 5% level for *Tarragona*.

3.3. Interpretation of Results

Given the cost of attending a private school in Catalonia, one would expect to see a higher performance or higher university acceptance from those students. However, the estimations do not show any evidence for that, suggesting that there may be characteristics of individuals attending private schools that may raise this probability. Moreover, most private

schools in Catalonia are either international schools or a status indicator. Hence, parents that choose a private school may not do so to improve their child education, but rather to allow them to grow in a school that is closer to their culture or nationality, or as a social class separation.

As for concerted schools, we do see that they raise the individual's chance of accessing university, and that they do so more on average than a public school would. Concerted schools are generally more affordable, making a (perceived) better education available to lower income families. This suggests that parents who choose (and can afford) a concerted school, may be more involved in the child's education. However, most of these schools are religious, which may leave out families that want to enroll their children in a laic school with public schooling as their only option.

We must highlight sport as a factor that largely affects university access. While it is not relevant for individuals born before 1982, it is statistically significant at a 1% level for younger individuals. Practicing sport is not just about health, but it also develops desirable qualities in students -like reliability, responsibility and leadership-, and it requires of a supportive environment. Thus, parents who are more involved in their children education, may also be more supportive of them practicing sport.

Looking into family situation, we must address the effect of the mother's age when having her first child. These results suggest that the older the mother, the more chances the child will have to access university. This might be so for a number of reasons. An older woman may already have a steady job or housing arrangement that allows her to better provide for her children. Similarly, an older woman is less likely to have another child, reducing the number of siblings. Another explanation may be that women who continue their education tend to have children later on, but there is little correlation between the two variables. As for marital status, for individuals born after 1981, it does have a significant negative effect that the parents are not married or a stable couple. Note that this category includes single parent homes as well as divorced couples.

Moving on to the parents education, it is extremely relevant for both the mother and the father. For individuals born before 1982, there was a relatively small difference between having the father go to university or the mother. However, for the younger group, the effect that the mother going to university has is much larger than the one of the father. The combination of having both parents going to university, thus, raises the odds of accessing

university further than any other variable.

When we talk about economic situation, we see that it does not seem to be significant for younger individuals except for level 5. This suggests that a very high income (level 6) does not act as an incentive to access university, and that in levels below 5 there might be no real increased probability. Meanwhile, for older individuals, all of them are significant except level 2. Together with the results for younger individuals, this suggests that the economic situation of a family plays a much lower role in university acceptance today than it used to in the past. In the same line, we see that the income of the area in which the individual grew has no significance. This means that even if the income in said place is elevated, it will not raise the chances of accessing university.

4. CONCLUSIONS

After taking interest on whether private scholarization actually had an effect on academic achievement reflected as university access, we were able to draw data and compute estimations for this statement. We started by collecting the data from 6561 volunteering individuals, who answered the survey in Appendix 1. We moved on by eliminating the observations of individuals who did not live in Catalonia during their childhood, and preparing the data for its use in statistical software. We then continued by computing the estimations over several different factors that may affect university access in addition to the type of schooling received by the individual. We computed three estimations, comparing the full sample with individuals born before and after 1981 (when the Spanish education system was last reformed).

When interpreting the estimations, we found that attending a private school did not raise the chances of accessing university. Meanwhile, attending a public or concerted school does, albeit the former does so more than the latter. Moreover, we found a number of factors having a strong effect on our fitted values. We saw that the parents' education level was far more relevant than economic situation or even the type of school the individual attended. Moreover, other factors like practicing sport as an extracurricular activity showed as relevant factors for university access. In the opposite direction, the economic situation of the family or the average income in the neighborhood did not seem to have any significance.

Overall, the models we proposed are generally successful at making a prediction. Particularly the model for those born after 1981 was better balanced than the other two. The model is not fully deterministic, since only 65.4% of cases are correctly predicted. However, this might not be negative, since such a large error leaves place for factors like personality or intelligence, which cannot be easily measured but may have a strong effect in university acceptance.

5. REFERENCES

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Table 1: Model 1 with Different Sample Restrictions

Variable	Full sample	Born before 1982	Born after 1981
<i>const</i>	-1.4521 (0.1759) ***	-1.0657 (0.254102) ***	-1.7182 (0.2577) ***
<i>gender</i>	0.0152 (0.0465)	-0.0728 (0.0635)	0.0880 (0.0700)
<i>siblings</i>	-0.0691 (0.0140) ***	-0.0475 (0.0159) ***	-0.0552 (0.0299) *
<i>m_first</i>	0.0259 (0.0042) ***	0.0122 (0.0059) **	0.0417 (0.0064) ***
<i>public</i>	0.0370 (0.0046) ***	0.0232 (0.0064) ***	0.0380 (0.0070) ***
<i>concerted</i>	0.0484 (0.0044) ***	0.0407 (0.0060) ***	0.0539 (0.0069) ***
<i>private</i>	-0.0019 (0.0060)	0.0062 (0.0075)	-0.0054 (0.0108)
<i>extra_help</i>	-0.0388 (0.0361)	-0.0540 (0.0492)	-0.1083 (0.0552) *
<i>sport</i>	0.1390 (0.0377) ***	0.0121 (0.0497)	0.2242 (0.0599) ***
<i>not_married</i>	-0.0806 (0.0576)	-0.1525 (0.0949)	-0.1529 (0.0750) **
<i>m_accessed</i>	0.5359 (0.0859) ***	0.5553 (0.1469) ***	0.4357 (0.1083) ***
<i>f_accessed</i>	0.3874 (0.0715) ***	0.4563 (0.1037) ***	0.2826 (0.1002) ***
<i>tarragona</i>	0.2341 (0.1104) **	0.0903 (0.1646)	0.3394 (0.1545) **
<i>girona</i>	0.0712 (0.0681)	0.0773 (0.0985)	0.0639 (0.0962)
<i>lleida</i>	0.1538 (0.1154)	0.0582 (0.1688)	0.2366 (0.1619)
<i>early_work</i>	-0.2330 (0.0357) ***	-0.3385 (0.0501) ***	-0.1762 (0.0527) ***
<i>eco_proxy_2</i>	0.0057 (0.1047)	0.1700 (0.1579)	-0.0431 (0.148591)
<i>eco_proxy_3</i>	0.1969 (0.1031) *	0.3377 (0.1575) **	0.0886 (0.1427)
<i>eco_proxy_4</i>	0.3367 (0.1040) ***	0.4204 (0.1590) ***	0.2311 (0.1436)
<i>eco_proxy_5</i>	0.6697 (0.1282) ***	0.6937 (0.2140) ***	0.4856 (0.1679) ***
<i>eco_proxy_6</i>	0.4685 (0.1468) ***	0.5632 (0.2136) ***	0.3419 (0.2102)
<i>l_NB</i>	-0.0119 (0.0162)	-0.0279 (0.224)	-0.0082 (0.0240)

Table 2: Number of Cases Correctly Predicted by Model 1

	Full sample	Born before 1982	Born after 1981
Number of cases	3920	2332	1658
Percentage	67.4%	71.1%	65.4%

Table 3: Distribution of Cases Correctly and Incorrectly Predicted by Model 1

Full sample				Born before 1982			
Predicted				Predicted			
<hr/> <hr/>				<hr/> <hr/>			
		0	1			0	1
Actual	0	3184	444	Actual	0	2216	99
	1	1453	736		1	850	116
<hr/>				<hr/>			
Born after 1981							
Predicted							
<hr/> <hr/>				<hr/> <hr/>			
			0				1
Actual	0		910		0		403
	1		475		1		748

APPENDIX 1: SURVEY

In this appendix we present the translation of the survey distributed. If the question is marked with * it means the answer is required to move forward.

Survey about education level

- In this survey we collect data on people that have finished secondary education.

1. General information

- Here we will ask you some general questions about you and your family.

(a) Year of birth*

(b) Gender*

- Female
- Male

(c) How many siblings do you have?*

- If you do not have any siblings, answer zero (0).

(d) Order of birth*

- If you are an only child, answer 1.

2. Parents

- In this section we will ask you some questions about your parents.

(a) During the majority of your childhood, what was your family's situation?*

- Until age 16.
 - i. Parents living together as a couple, married or as a de facto couple.
 - ii. Parents divorced or separated, living separated without a partner.
 - iii. Divorced parents and one of the two with another partner.
 - iv. Divorced parents and both of them with another partner.
 - v. Widow father or mother without a partner.
 - vi. Widow father or mother with a partner.

- vii. Other situations (orphan, under guardianship of a family member, social services, etc.)
- (b) At what age did your mother have her first child?*
- (c) At what age did your father have his first child?*
- (d) What is the maximum study level your mother achieved?*
- i. Did not finish Primary Education or General Basic Education (EGB).
 - ii. Primary Education or General Basic Education (EGB).
 - iii. Mandatory Secondary Education (ESO) or Unified Polyvalent Baccalaurate (BUP).
 - iv. Baccalaureate or University Orientation Course (COU).
 - v. Medium Degree Formative Cycle (FP).
 - vi. Superior Degree Formative Cycle (FP).
 - vii. Diploma or Technical Engineering.
 - viii. Bachelor's Degree or European Bachelor's Degree.
 - ix. Master's Degree.
 - x. Philosopher's Degree.
- (e) What is the maximum study level your father achieved?*
- i. Did not finish Primary Education or General Basic Education (EGB).
 - ii. Primary Education or General Basic Education (EGB).
 - iii. Mandatory Secondary Education (ESO) or Unified Polyvalent Baccalaurate (BUP).
 - iv. Baccalaureate or University Orientation Course (COU).
 - v. Medium Degree Formative Cycle (FP).
 - vi. Superior Degree Formative Cycle (FP).
 - vii. Diploma or Technical Engineering.
 - viii. Bachelor's Degree or European Bachelor's Degree.
 - ix. Master's Degree.
 - x. Philosopher's Degree.
- (f) What type of education did your mother receive?*

- Primary and secondary education.

i. Public

ii. Concerted Religious

iii. Concerted Laic

iv. Private Religious

v. Private Laic

(g) What type of education did your father receive?*

- Primary and secondary education.

i. Public

ii. Concerted Religious

iii. Concerted Laic

iv. Private Religious

v. Private Laic

(h) What was your mother's main job?*

- Includes categories like house worker or unemployed.

(i) What was your father's main job?*

- Includes categories like house worker or unemployed.

3. Economic Environment

(a) How many people were full time workers in your home?*

(b) How many people were part time workers in your home?*

(c) In which category would you classify your family's economic situation during your childhood?*

i. We had difficulty to cover our basic expenses (housing, food, etc.).

ii. We could cover our basic expenses, but we could not afford any type of luxuries.

iii. We could afford occasional luxuries (eating out every once in a while).

iv. We could afford regular luxuries (like going on vacation every year).

- v. We could afford even more luxuries (multiple vacations every year, several cars).
 - vi. Money was not a limiting factor (summer houses, several cars, etc.).
- (d) What was your family's situation with regards to housing?*
- i. Rent
 - ii. Property
 - iii. Property of official protection
 - iv. Other situations
- (e) Indicate your postal code (or postal codes) of your house during your childhood.*
- (f) At what age did you start working?*
- If you have not started to work yet, answer NO.

4. Own Education

- Here we will ask you questions about your own education.
- (a) Have you finished studying yet?*
- Yes
 - No
- (b) If you have finished studying, what is your maximum study degree?
- i. Primary Education or General Basic Education (EGB).
 - ii. Mandatory Secondary Education (ESO) or Unified Polyvalent Baccalaurate (BUP).
 - iii. Baccalaureate or University Orientation Course (COU).
 - iv. Medium Degree Formative Cycle (FP).
 - v. Superior Degree Formative Cycle (FP).
 - vi. Diploma or Technical Engineering.
 - vii. Bachelor's Degree or European Bachelor's Degree.
 - viii. Master's Degree.
 - ix. Philosopher's Degree.

- (c) If you have not finished studying yet, what type of studies are you currently coursing?
- i. Primary Education.
 - ii. Mandatory Secondary Education (ESO).
 - iii. Baccalaureate.
 - iv. Medium Degree Formative Cycle (FP).
 - v. Superior Degree Formative Cycle (FP).
 - vi. European Bachelor's Degree.
 - vii. Master's Degree.
 - viii. Philosopher's Degree.
- (d) Have you coursed other Baccalaureate modalities?*
- International Baccalaureate, studies abroad, foreign systems, etc.
 - i. Yes
 - ii. No
- (e) Between Primary 1st and 2nd of Baccalaureate or Medium Degree Formative Cycle, how many courses did you do at a public school?*
- Answers $\in (0, 12)$.
- (f) Between Primary 1st and 2nd of Baccalaureate or Medium Degree Formative Cycle, how many courses did you do at a concerted religious school?*
- Answers $\in (0, 12)$.
- (g) Between Primary 1st and 2nd of Baccalaureate or Medium Degree Formative Cycle, how many courses did you do at a concerted laic school?*
- Answers $\in (0, 12)$.
- (h) Between Primary 1st and 2nd of Baccalaureate or Medium Degree Formative Cycle, how many courses did you do at a private religious school?*
- Answers $\in (0, 12)$.
- (i) Between Primary 1st and 2nd of Baccalaureate or Medium Degree Formative Cycle, how many courses did you do at a private laic school?*
- Answers $\in (0, 12)$.

(j) During your primary and secondary education, did you receive any of the following?*

- Select the option if you received this service for at least a year.
 - i. Reinforcement classes.
 - ii. Extracurricular classes (for example: language schools, kumon, etc.).
 - iii. Logopedia or Psychopedagogy
 - iv. Ninguna

(k) Did you practice any extracurricular sport?*

- Yes.
- No.

(l) Have you done the university access exam (selectivity)?*

- Yes
- No

If you did selectivity in 2009 or before, what was your grade?

- < 5
- Half a point ranges $\in (5, 10)$
- I do not remember

(m) If you did selectivity in 2010 or later, what was your grade?

- < 5
- Half a point ranges $\in (5, 14)$
- I do not remember

(n) If you accessed university, to which degree?

(o) Did you access the first year yo applied?

- Yes
- No

(p) If you did not access the first time, how many times did you apply?

(q) Was it your first option?

- Yes

- No

(r) If it was not your first option, which one was it?

- Second
- Third
- Fourth
- Fifth
- Sixth
- Seventh
- eighth
- I did not access university