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## RESEARCH ARTICLE

## Social origins, track choices and labour-market outcomes: evidence from the French case

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This paper examines the labour-market returns to different high school tracks in the French context. We use rich nationally representative longitudinal data running from the beginning of secondary education until entrance into the labour market: the Panel d'élèves du second degré, recrutement 1995 combined with the Entrée dans la vie adulte-EVA follow-up survey. Analysing these data, we are able to identify the consequences of track placement in high school on various labour-market outcomes controlling for social and academic selection into tracking. Our results show that academic diplomas offer higher labour-market benefits than vocational diplomas, even when adjusting for selection into tracks based on prior school performance, family background and other socio-demographic characteristics. The advantage of the academic track stays large, both for the whole group of upper secondary graduates and for those who have not achieved a tertiary degree. Our results further indicate that academic qualifications are even more rewarding for service-class graduates. We discuss the theoretical and policy implications of our results for processes of intergenerational reproduction.

**Key words** educational tracking • labour-market outcomes • intergenerational reproduction • vocational education • France

#### Key messages

- Secondary academic diplomas offer higher labour market benefits than vocational ones, even when adjusting for selection into tracks.
- The academic path is the most rewarding option in France, even among students who do not complete tertiary education.
- Secondary academic qualifications are even more rewarding for service class graduates, in terms of boosting access to service class jobs.

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#### Introduction

In France, as in other European countries, upper secondary education is split into tracks that differ considerably in their academic orientation. Students must make their first track choice in grade 9 corresponding to the last year of lower secondary education, when they are aged 15. Hence, France may be characterised as a latetracking system. This work analyses the occupational prospects of upper secondary graduates from different tracks in France, taking into account selection into these tracks by prior school performance. As argued later, this topic is remarkably under-researched in France. Sociological and economic studies have largely focused on differences in labour-market outcomes by final educational attainment (Dupray, 2000; Barret et al, 2014) or on the effect of secondary tracks on higher education participation (Duru-Bellat, 2006; Vallet, 2020). The labour-market consequences of the horizontal differentiation within an educational level have only been studied for higher education (Calmand and Epiphane, 2012). In this work, we study the consequences of track choices made at age 15 on early labour-market outcomes, thus taking a longer time perspective than existing research. In addition, we estimate to what extent the effect of secondary tracks on labour-market outcomes reflects differences in higher education attainment, thus taking into account path dependency in education trajectories. Finally, while previous studies failed to consider ability selection into secondary tracks, we incorporate detailed measures of academic achievement prior to track choice and show that they correct the estimated track effects.

Moreover, taking an intergenerational perspective, we consider the interplay between track choices and family background (Lucas, 2001). An extensive literature reports that working-class children are over-represented in vocational programmes, which afford much lower chances to access and complete higher education, thus constraining their opportunities to attain upper-class jobs (Ichou and Vallet, 2011; Blossfeld et al, 2016). Track choices thus drive intergenerational reproduction via their connections with higher education. Their relevance for social stratification processes needs not to be confined to these connections, however. We expand on the existing literature by investigating two additional processes of intergenerational reproduction.

First, we assess whether track choices also mediate family background effects among students who did not complete higher education. After all, only 41% of French youngsters attain a tertiary degree, while 42% leave education with an upper secondary qualification and 17% with a lower secondary certificate (OECD, 2018). If academic diplomas offer better labour-market prospects than vocational diplomas, upper-class children enjoy a twofold advantage: better chances to reach more rewarding occupations with and without a tertiary degree. In other words, if the academic path is a win—win option, the over-representation of upper-class children in this path entails even stronger consequences for intergenerational reproduction than has been documented so far.

Second, regardless of the profitability of different secondary diplomas, family background has a 'direct' influence on labour–market outcomes, owing to the higher economic, cultural and social resources of upper-class parents (Bernardi and Ballarino, 2016). We estimate this direct effect of family background on early occupational outcomes, accounting for social and ability selection into tracks. Then, we analyse whether this effect moderates the effects of different secondary diplomas. For instance, a higher family background may reduce the risks of demotion into manual occupations associated with a vocational diploma, or it may boost the chances of reaching skilled, white-collar occupations with an academic diploma.

The rest of this paper is organised as follows. Next, we develop our theoretical background and then illustrate the French educational system and review the previous literature on the occupational prospects of secondary diplomas in France. We go on to describe the data, variables and models used for the analyses before presenting the results and concluding.

## Theoretical background

Educational track decisions can influence the occupational prospects of students in two distinct ways. First, they affect the chances of enrolling in (and completing) higher education as well as of accessing more selective and rewarding programmes. Second, among students who do not continue to higher education, secondary diplomas may display different levels of employability. As mentioned in the Introduction, this second aspect is less investigated and represents the focus of the present work.

The labour-market outcomes of different secondary diplomas may reflect multiple micro-level mechanisms that need not work in the same direction, thus precluding straightforward predictions. From a human capital perspective (Becker, 1962), vocational diplomas offer more specific, ready-to-use skills that reduce training costs and enhance the productivity of prospective candidates (Rözer and Bol, 2019). However, academic diplomas may perform better when it comes to fostering general skills, such as reasoning, communication and language competencies, and mathematical and science skills. Moreover, attitudes and personality traits, such as teamwork orientation or conscientiousness, are increasingly recognised as relevant predictors of occupational success, but it is unclear whether some secondary tracks contribute more to their development than others (Farkas, 2003). It is possible that higher academic standards and a more disciplined school climate favour students from academic tracks.

From a signalling perspective (Spence, 1973), vocational tracks recruit students with weaker academic performance, as well as with lower educational and occupational aspirations (Ichou and Vallet, 2013). Students in the vocational track are also more likely to undergo behavioural problems and experiences of school failure. Moreover, they come more often from low-educated, working-class families and they more often have an immigrant background (Palheta, 2012; Oberti and Ichou, 2014; Ichou, 2018): these traits tend to be negatively labelled and discriminated against in the labour market. However, when considering the pool of upper secondary graduates who do not continue to (or at least do not complete) tertiary education, graduates from the academic track may also be negatively labelled. Indeed, since an overwhelming majority of students from this track continues to higher education, those who do not could therefore be perceived as 'deviant'. An alternative interpretation, however, may

suggest that these students do not continue to tertiary education precisely because they enjoy particularly favourable economic prospects with a secondary degree, for instance in relation to entrepreneurial activities and other forms of self-employment.

Finally, imbalances between supply and demand across occupational domains constitute a third set of potential mechanisms. Graduates from academic tracks may access white-collar occupations where general skills and cultural resources are important, but much depends on the potential competition and displacement coming from bachelor's degrees or tertiary vocational qualifications. At the same time, labour shortages in some manual occupations may significantly raise the employability and profitability of some vocational qualifications (Arrighi and Sulzer, 2012).

Overall, the main factor that could drive more favourable occupational prospects for vocational graduates relates to the importance of specific, ready-to-use skills that could be highly demanded in some occupational domains. The importance of this micro-level mechanism may vary across countries in relation to the macro-level characteristics of their educational systems (Müller and Gangl, 2003). Where vocational education is connected to a strong apprenticeship system involving firms and employers' organisations and enjoys a positive reputation, its labour-market returns are larger, more so if these secondary programmes open access to some form of tertiary, vocational education. Conversely, where the vocational path is a school-based programme that primarily represents a *reservoir* of low-performing students, its negative stigma may prevail, and its labour-market prospects may be poorer. The French educational system being highly generalist, vocational tracks enjoy limited connections with labour-market demands and their diplomas tend to be devalued.

Following the seminal work by Blau and Duncan (1967), social mobility research has extensively reported that social origins affect occupational attainment even after controlling for educational attainment (Bernardi and Ballarino, 2016; Breen and Müller, 2020). These 'direct' effects, which have been documented also for France and in recent cohorts (Goffette and Vallet, 2018; Vallet, 2020), may reflect the higher endowments of economic, social and cultural resources that upper-class families can mobilise to foster the occupational attainment of their children (Bourdieu, 1979; 1986). Upper-class students are better equipped in terms of cultural resources, such as familiarity with highbrow culture and with upper-class conventions and lifestyles (Jæger, 2009), which could give an edge to access middle- and upper-class occupations. These reproduction mechanisms can be particularly important when their children fail to attain a tertiary degree, and thus some compensatory strategy must intervene to avoid downward mobility. In this paper, we explore whether these family influences interact with track choices. In particular, we suggest that, when their children do not complete higher education, upper-class parents can facilitate access to skilled white-collar and managerial occupations by mobilising their social networks to provide information and social ties fostering labour-market prospects (Aina and Nicoletti, 2014; Kramarz and Skans, 2014). These occupations may not formally require a tertiary degree, but they demand significant endowments of communication and social skills, which are fostered more in academic tracks than in vocational education (Egerton, 1997). Hence, even if upper-class children do not complete tertiary education, the academic track may be particularly useful to access more rewarding jobs. Hence, we expect that the direct effects of social origins are stronger for graduates of the academic track.

## The French educational system

This section presents the most salient features of the French educational system, with a focus on upper secondary school tracking (Herbaut et al, 2019). It then reviews the few existing studies on the occupational prospects of graduates from different upper secondary tracks in France.

The vast majority of pupils start schooling at age 3: pre-primary education is almost universal, despite being optional (until 2019). Compulsory instruction begins at age 6 and ends at 16, covering five years of primary education, four years of lower secondary school (collège) and the first year of high school, in the absence of grade repetition. Primary and lower secondary education are comprehensive. Students are faced with a first track choice at the end of lower secondary school (grade 9). Based primarily on their past grades and their subject preferences, students and their parents formulate a preference (vœu) between an academic path, comprising the academic and technological tracks (lycée général et technologique) and a vocational path. This choice is most often rubber-stamped by the school principal and teachers by means of a teacher recommendation.1 If they opt for the academic path, at the end of 10th grade, students must further choose between a general track and a technological track, and they must select a specific stream within each track. After three years of high school, these students must pass a national examination to obtain a full, upper secondary certificate (baccalauréat général or baccalauréat technologique) that entitles them to attend higher education.

If they opt for the vocational path, students have two options. Until 2009 – and this is relevant for students in our data (discussed later) – students choosing the vocational path could choose between the CAP (certificat d'aptitude professionnelle), which lasts two years and can also be obtained through apprenticeship, and a more advanced, vocational training programme called BEP (brevet d'études professionnelles), which lasts two years and allows them to continue for two extra years to attain a baccalauréat professionnel, which affords eligibility to higher education. Hence, CAP is the only terminal certificate in high school.

Even though all *baccalauréat* types formally grant access to higher education, there is a strong stratification in the higher education prospects of the different types of *baccalauréat* holders (Ichou and Vallet, 2011). Academic *baccalauréat* graduates are more likely to enter either university or the selective and prestigious preparatory classes that act as gateways to elite universities. Vocational *baccalauréat* holders usually do not attend higher education at all, and when they do, they face high risks of failure. Technological *baccalauréat* holders are in an intermediate position. In 2017, 79% of a birth cohort obtained a *baccalauréat*: 41% passed an academic *baccalauréat*, 16% a technological one and 22% a vocational one (Ministère de l'Enseignement supérieur, de la Recherche et de l'Innovation–SIES, 2018).

Analyses of labour-market returns to education in France have mostly focused on vertical differences, that is, in the different amount of education received (for example, Nauze-Fichet and Tomasini, 2002) and final educational attainment (Dupray, 2000; Barret et al, 2014). The few studies that analysed horizontal differences focused on higher education institutions (Calmand and Epiphane, 2012; Calmand et al, 2014a; 2014b; Merlin and Lemistre, 2018). The effect of the upper secondary school track attended on occupational prospects has seldom been studied in France. Two studies have focused on the labour-market prospects of vocational graduates, depending on

whether students attended a vocational upper secondary school or an apprenticeship programme (Simonnet and Ulrich, 2000; Le Rhun and Marchal, 2015). Both studies conclude that students who received their training through apprenticeship display a higher likelihood of being in employment afterwards. Overall, the literature on returns to upper secondary diplomas in France is meagre and fails to control for social and ability selection into tracks. As argued earlier, this is likely to give a misleading view of the effect of track placement on occupational outcomes.

### Data, variables and models

The analyses draw on the Panel d'élèves du second degré, recrutement 1995, a nationally representative, longitudinal survey which followed a cohort of students who entered lower secondary education (6th grade) in 1995 throughout secondary and tertiary education. This study combines administrative data on school careers with a parental questionnaire administered in 1998. After high school graduation, students were surveyed about their higher education studies yearly until they had left education for two consecutive years. Between 2005 and 2012, students who had reported having left the education system were further surveyed on a yearly basis on their labour–market situation through the follow–up survey Entrée dans la vie adulte–EVA, using mail questionnaires. In Appendix A, we provide additional information on sampling, data collection methods, response rates and other elements of the survey design of this study.

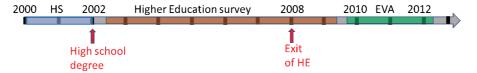
By design, the EVA survey includes respondents who have entered secondary education in the same year (1995) but left the education system in different years, depending on their educational attainment and trajectories. Since the EVA survey was implemented between 2005 and 2012 only, respondents were not necessarily surveyed at the same point of their career. As illustrated by Figure 1, respondents with a long university degree tend to report occupational outcomes shortly after the end of their studies while respondents who left the education system before graduating from high school were surveyed on their occupational outcomes several years after they left school. To avoid having an analytical sample with a strong over-representation of

**Figure 1:** Timing of EVA interrogations depending on theoretical educational trajectories.

#### Student 1: Dropped out from high school without any degree



#### Student 2: Graduated from a master's degree



low-educated respondents, or under-representation of highly educated respondents, we decided to use the first job reported in the EVA survey and control for the number of years since the exit of the education system. This approach gives an analytical sample that is more similar to the original representative 1995 sample, regarding the distribution of independent variables, than focusing on respondents with occupation reported three years (or any other fixed number of years) after exiting of the education system, as shown in Table A1 in the appendix.

For comparative purposes occupational destinations are classified using the EGP class schema<sup>2</sup> (Erikson and Goldthorpe, 1992). We differentiate four outcomes referring to access to:

- the higher service class (EGP I);
- the higher and lower service class (EGP I+II);
- the skilled and unskilled working class (EGPV+VI+VII);
- the unskilled working class (EGPVII).

We do not present results on access to the intermediate classes (EGP III and IV) because these empirical patterns are redundant, given the above models. However, in Appendix C, we present the results of multinomial logit models with estimated parameters for each destination class.

Moreover, we analyse also track differences in net monthly earnings for the first job declared in the EVA survey.

Our main independent variable refers to the track attended in high school. We first look at the track attended in grade 10 using a dichotomous variable, which differentiates the academic path (academic and technological tracks) from the vocational path (CAP and BEP, including those few students who had already left education by grade 10). Next, we consider the highest degree attained in secondary education (grade 12), classified into five categories: no degree or lower secondary degree, vocational training certificate (*CAP/BEP*), vocational diploma (*baccalauréat professionnel*), technological diploma (*baccalauréat technologique*) and general diploma (*baccalauréat général*).

We control for the following socio-demographic variables: gender, parents' highest level of education and social class (EGP schema), demographic size of the municipality of residence in 6th grade,<sup>3</sup> and parents' country of birth (both parents born abroad vs at least one parent born in France). Regarding performance before tracking, we use the average of teacher grades in maths and French at the end of lower secondary school (contrôle continu). In the main text, we will focus on secondary track effects, but the full results including estimates for the control variables are available in Appendix B.

Regarding higher education attainment, we use the highest degree reported by the respondents and differentiate between five levels: no higher education degree; two-year vocational degree; bachelor's degree (three years); master's degree (4 or 5 years) obtained in the university system; master's degree obtained in elite institutions (*Grande école*).<sup>4</sup>

When they reported a job for the first time in the EVA survey, participants were between 20 and 30 years old, with a mean of 24. They had left the school system for a duration ranging from less than a year to 13 years, but 95% of them had left the school system for five years or less (mean of almost three years). We thus further control for the age of respondents at the time of the first job reported and the number

**Table 1:** Descriptive statistics

Dependent variables: early labour-market outcomes	
Higher service class I	14.6%
Service class I+II	35.6%
Working class V+VI+VIIab	32.4%
Unskilled working class VIIab	11.4%
Net monthly earnings (€)	
Mean	1,341.4
SD	540.4
% missing	10.6%
Independent variables	
Academic & technological high school attended in grade 10	
No	36.6%
Yes	62.0%
Missing	1.4%
Highest degree obtained in secondary education	
No degree	6.9%
Vocational CAP/BEP	20.1%
Vocational baccalauréat	13.1%
Technological baccalauréat	20.4%
Academic baccalauréat	38.1%
Missing	1.4%
Sex	
Men	49.7%
Women	50.3%
Parental education	
Less than upper secondary	52.0%
Upper secondary	15.9%
Tertiary	23.0%
Missing	9.1%
Parental social class	
I+II	35.0%
Illab	36.5%
IVab	5.0%
IVc	2.9%
V+VI	15.0%
VIIab	4.9%
Unemployed/inactive	0.7%
City size in 1995	
Village or small town	40.2%
Medium-sized city	25.6%
Large city, other than Paris	20.8%
Paris area	13.4%

(Continued)

Table 1: (Continued)

Parents' country of birth	
At least one parent born in France	89.7%
Both parents born abroad	9.2%
Missing	1.2%
GPA in French and math in grade 9 (out of 20)	
Mean	11.2
SD	2.7
Missing	18.2%
Higher education attainment	
No degree	48.4%
Short degree +2	15.7%
Bachelor's degree +3	19.9%
Master's degree +4/5	8.8%
Long degree-grandes écoles	7.1%
Missing	0.1%
Age at first job reported	
Mean	24.2
SD	1.9
Years in the labour market	
Mean	2.8
SD	1.4
Missing	16.3%
Number of observations	10,816

Source: Panel 1995-EVA.

of years since they had left education. Table 1 reports the descriptive statistics for the variables used for the analyses.

Around 10,800 individuals out of the 17,830 interviewees of the 1995 original sample have answered the EVA survey and reported at least one job. Among these, 29% have missing data on at least one independent variable. Listwise deletion (or complete case analysis) can lead to biased estimates when the mechanism producing missingness is not at random (Rubin, 1987). To address this issue, we opted for multiple imputation. Incomplete variables were imputed in 100 data sets using a fully conditional specification approach (Van Buuren et al, 2006; Van Buuren, 2007), where imputations are done sequentially for each variable using the other variables in the study (including the outcome variable), along with auxiliary variables to reduce bias. Recent research has shown that any interaction term in the analytical model will be biased towards zero if it is not included in the imputation model (Tilling et al, 2016). Hence, in order to test for heterogeneity by social origin in the occupational outcomes of secondary school tracks, we split the sample into three groups, based on parental social class (service class, middle classes, working classes) and we made the imputations separately for each of these groups. Analyses were performed for each imputed data set separately, with estimates and standard errors combined using Rubin's rules (Rubin, 1987); the R<sup>2</sup> were averaged across imputed datasets using Harel's (2009) method.

The association between high school tracks and early labour-market outcomes was estimated with linear regression or linear probability models with robust standard errors. In order to assess the heterogeneity by social origins in the 'effect' of tracking, we add to model 5 an interaction term between parental social class and the highest degree obtained in secondary education. Predicted probabilities from these models are reported to ease interpretation.

#### Multivariate results

Track placement and occupational attainment

In this first set of analyses, we assess the social class and earning returns to track placement. For social class, we differentiate between four destinations: access to the higher service class (EGP I); to the service class overall (EGP I–II); to the working class (EGP V–VII); and to the unskilled working classes (VII). For each outcome, we consider first the bivariate relationships with track assignment in grade 10 (model 1) or with the track of high school graduation in grade 12 (model 2). Based on model 2, we built a sequence of nested models. We control for socio-demographic confounders (model 3) and for academic performance in grade 9, that is, prior to track assignment (model 4). Finally, we further control for age and time since leaving education, <sup>5</sup> together with higher education attainment (model 5), which represents the main mediator of occupational returns to track placement.

The top panel in Table 2 refers to the set of nested, linear probability models concerning the chances of access to the higher service class (high-level managers and professionals, large entrepreneurs). Model 1 indicates that students who chose the academic-oriented path in grade 10 enjoy a 21% higher probability of reaching toplevel occupations than students who attended the vocational path. Model 2 considers instead track completed in high school (grade 12), showing that neither vocational training degrees (CAP and BEP) nor full vocational diplomas outperform lower secondary degrees in terms of chances of access to top-level jobs. On the contrary, technological diplomas enjoy a statistically significant advantage of moderate intensity (+7%) and general diplomas display a much stronger advantage (+32%). However, models 3 and 4 confirm that selection effects matter, particularly those relating to academic performance prior to track choice: the advantage of technological diplomas disappears entirely, and that of academic qualifications is almost halved from model 2 to model 4, shrinking from 32% to 18%. Indeed, once adjusting for social and ability selection into tracks, only the gap favouring general diplomas is significant. As can be inferred from model 5, this remaining gap is almost entirely explained out by the advantages that this track offers in terms of access to higher education. Hence, for access to the higher service class, what matters is completing the general track and achieving a tertiary degree.

The picture is partially different when considering access to the broader (higher and lower) service class (second panel on Table 2). The raw advantage of taking the academic path in grade  $10 \ (+43\%, \text{ model } 1)$  is twice as large as for top-level jobs, and it translated into the strong advantages of both technological (+27%) and general diplomas (+59%) in model 2, which stay large even when accounting for selection effects in model 4 (+19% and +44%, respectively). Importantly, while higher

(Continued)

Table 2: Linear regressions of early occupational outcomes

Academic & technological high school attended in grade 10  No (ref.)  Yes  Highest degree obtained in secondary education  No degree (ref.)  Vocational CAP/BEP  Vocational baccalauréat  Constant  Constant  Constant  Coutome: service class I+II  Academic & technological high school attended in grade 10  No (ref.)  Yes  Outcome: (ref.)  Yes  Outcome: Service class I+II  Academic & technological high school attended in grade 10  No (ref.)  Yes  Outcome: Service class I+II  Academic & technological high school attended in grade 10  No (ref.)  Yes  Outcome: Service class I+II  Academic & technological high school attended in grade 10  No (ref.)  Yes  Outcome: Service class I+II  Academic & technological high school attended in grade 10  No (ref.)  Yes  Outcome: Service class I+II  Academic & technological high school attended in grade 10  No (ref.)  Yes  Outcome: Service class I+II  Academic & technological high school attended in grade 10  No (ref.)  Yes  Outcome: Service class I+II  Academic & technological high school attended in grade 10  No (ref.)  Yes  Outcome: Service class I+II  Academic & technological high school attended in grade 10  No (ref.)  Yes  Outcome: Service class I+II  Academic & technological high school attended in grade 10  No (ref.)  Yes					0 2 2 2		& Jeals III LIVI	ILM
Academic & technological high school attended in grade 10           No (ref.)         Yes           Highest degree obtained in secondary education         (0.01)           Highest degree obtained in secondary education         (0.01)           No degree (ref.)         (0.01)           Vocational CAP/BEP         (0.00)           Vocational baccalauréat         (0.00)           Constant         (0.01***           Constant         (0.0862           R²         (0.0862           Outcome: service class I+II         Academic & technological high school attended in grade 10           No (ref.)         Yes           Highest degree obtained in secondary education           No degree (ref.)         (0.01)           Vocational CAP/BEP         (0.01)								
No (ref.)         Ves         0.21***         (0.01)           Highest degree obtained in secondary education         No degree (ref.)         (0.01)           No degree (ref.)         Vocational CAP/BEP         (0.00)           Vocational baccalauréat         (0.00)           Academic baccalauréat         (0.00)           Constant         0.0862           Constant         0.0862           Qutcome: service class I+II           Academic & technological high school attended in grade 10           No (ref.)         Yes           Highest degree obtained in secondary education           No degree (ref.)         No degree (ref.)								
Yes         0.21***         (0.01)           Highest degree obtained in secondary education         No degree (ref.)         No degree (ref.)           Vocational CAP/BEP         Vocational baccalauréat         (0.00)           Vocational baccalauréat         0.01***         (0.00)           Constant         0.0862         0.0862           Outcome: service class I+II         Academic & technological high school attended in grade 10           No (ref.)         Yes         0.43***           No degree (ref.)         No degree (ref.)           No degree (ref.)         No degree (ref.)								
Highest degree obtained in secondary education  No degree (ref.)  Vocational CAP/BEP  Vocational baccalauréat  Technological baccalauréat  Constant  Constant  Constant  Constant  Constant  Outcome: service class I+II  Academic & technological high school attended in grade 10  No (ref.)  Ves  Outcome: obtained in secondary education  No degree (ref.)  Vocational CAP/BEP								
No degree (ref.)         Vocational CAP/BEP           Vocational baccalauréat         Constant           Technological baccalauréat         0.01****           Constant         0.01****           Constant         0.0862           Outcome: service class I+II           Academic & technological high school attended in grade 10           No (ref.)         Yes           Highest degree obtained in secondary education           No degree (ref.)           Vocational CAP/BEP								
Vocational CAP/BEP         Vocational baccalauréat         (0.00)           Vocational baccalauréat         0.01***         (0.00)           Constant         0.01***         (0.00)           Observations         10,816         0.0862           R²         0.0862         0.0862           Outcome: service class I+II           Academic & technological high school attended in grade 10           No (ref.)         Yes         0.43***         (0.01)           Highest degree obtained in secondary education         No degree (ref.)         Vocational CAP/BEP								
Vocational baccalauréat     Technological baccalauréat       Academic baccalauréat     0.01****       Constant     0.01****       Observations     10,816       R²     0.0862       Outcome: service class I+II       Academic & technological high school attended in grade 10       No (ref.)     Ves       Highest degree obtained in secondary education       No degree (ref.)       Vocational CAP/BEP	-0.00	(00.00)	0.01**	(0.00)	0.00	(0.01)	-0.00	(00.00)
Technological baccalauréat         (0.00)           Academic baccalauréat         (0.01)***           Constant         (0.01)***           Observations         10,816           R²         0.0862           Outcome: service class I+II           Academic & technological high school attended in grade 10           No (ref.)         Yes           Highest degree obtained in secondary education           No degree (ref.)           Vocational CAP/BEP	0.01***	(00.00)	0.01***	(0.01)	-0.00	(0.01)	-0.02***	(0.01)
Academic baccalauréat         0.01****         (0.00)           Constant         0.01****         (0.00)           Observations         10,816         8           R²         0.0862         9           Outcome: service class I+II           Academic & technological high school attended in grade 10           No (ref.)         Yes         0.43***           Highest degree obtained in secondary education           No degree (ref.)         Vocational CAP/BEP	0.07***	(0.01)	0.06***	(0.01)	0.01	(0.01)	-0.03***	(0.01)
Constant         0.01***         (0.00)           Observations         10,816                     R2         0.0862                     Outcome: service class I+II           Academic & technological high school attended in grade 10           No (ref.)                               Yes         0.43***         (0.01)           Highest degree obtained in secondary education                     No degree (ref.)                     Vocational CAP/BEP	0.32***	(0.01)	0.27***	(0.01)	0.18***	(0.01)	0.02**	(0.01)
Observations 10,816 0.0862  R <sup>2</sup> Outcome: service class I+II Academic & technological high school attended in grade 10 No (ref.) Yes 0.43*** (0.01) Highest degree obtained in secondary education No degree (ref.)	0.01**	(00.0)	0.16***	(0.01)	-0.04**	(0.02)	-0.34***	(0.05)
Academic & technological high school attended in grade 10  No (ref.)  Yes  No degree (ref.)  No degree (ref.)  Vocational CAP/BEP	10,816		10,816		10,816		10,816	
Outcome: service class I+II  Academic & technological high school attended in grade 10  No (ref.)  Yes  Highest degree obtained in secondary education  No degree (ref.)	0.169		0.215		0.232		0.413	
Academic & technological high school attended in grade 10  No (ref.)  Yes  Highest degree obtained in secondary education  No degree (ref.)								
nest degree obtained in secondary education degree (ref.)								
nest degree obtained in secondary education degree (ref.)								
Highest degree obtained in secondary education  No degree (ref.)  Vocational CAP/BEP								
No degree (ref.) Vocational CAP/BEP								
Vocational CAP/BEP								
	-0.02*	(0.01)	-0.01	(0.01)	-0.02*	(0.01)	-0.04***	(0.01)
Vocational <i>baccalauréat</i>	0.05***	(0.01)	0.04***	(0.01)	0.03**	(0.01)	***90.0-	(0.01)
Technological <i>baccalauréat</i>	0.27***	(0.01)	0.23***	(0.01)	0.19***	(0.01)	0.02	(0.02)

Table 2: (Continued)

	(1) Track assignment	signment	(2) High school	chool	(3) + socio-demographics	mooranhics	(4) +Performance in	rmance in	(5) + HF attainment & age	nent & age
	grade 10	10	attainment	ent		0	grade 9	e 9	& years in LM	n LM
Academic baccalauréat			0.59***	(0.01)	0.51***	(0.01)	0.44***	(0.02)	0.12***	(0.02)
Constant	0.09***	(0.00)	0.07***	(0.01)	0.19***	(0.02)	0.03	(0.02)	-0.69***	(0.07)
Observations	10,816		10,816		10,816		10,816		10,816	
R <sup>2</sup>	0.191		0.293		0.313		0.319		0.406	
Outcome: Working class V+VI+VIIab	IIab									
Academic & technological high school atten	school attended	ded in grade 10								
No (ref.)										
Yes	-0.32***	(0.01)								
Highest degree obtained in secondary education	ondary education									
No degree (ref.)										
Vocational CAP/BEP			0.01	(0.02)	0.01	(0.02)	0.01	(0.02)	0.04*	(0.02)
Vocational baccalauréat			-0.05**	(0.02)	-0.03	(0.02)	-0.03	(0.02)	0.06***	(0.02)
Technological baccalauréat			-0.24***	(0.02)	-0.17***	(0.02)	-0.16***	(0.02)	-0.04**	(0.02)
Academic baccalauréat			-0.42***	(0.02)	-0.28***	(0.02)	-0.26***	(0.02)	-0.09***	(0.02)
Constant	0.52***	(0.01)	0.54***	(0.02)	0.60***	(0.02)	0.64***	(0.03)	1.46***	(0.07)
Observations	10,816		10,816		10,816		10,816		10,816	
R <sup>2</sup>	0.111		0.151		0.332		0.333		0.357	
Outcome: Unskilled working class Vllab	s VIIab									
Academic & technological high school atten	school attended in	in grade 10								
No (ref.)										
Yes	-0.17***	(0.01)								
Highest degree obtained in secondary education	ondary education									
No degree (ref.)										

	(1) Track assign grade 10	assignment de 10	(2) High school attainment	chool	(3) + socio-demographics	mographics	(4) +Performance in grade 9	rmance in e 9	(5) + HE attainment & age & years in LM	nent & age
Vocational CAP/BEP			-0.10***	(0.02)	-0.10***	(0.02)	-0.10***	(0.02)	-0.09***	(0.02)
Vocational baccalauréat			-0.14***	(0.02)	-0.13***	(0.02)	-0.13***	(0.02)	-0.09***	(0.02)
Technological baccalauréat			-0.25***	(0.02)	-0.21***	(0.02)	-0.21***	(0.02)	-0.14**	(0.02)
Academic baccalauréat			-0.29***	(0.02)	-0.24***	(0.02)	-0.22***	(0.02)	-0.14**	(0.02)
Constant	0.22***	(0.01)	0.32***	(0.02)	0.31***	(0.02)	0.34***	(0.02)	0.55***	(90.0)
Observations	10,816		10,816		10,816		10,816		10,816	
R <sup>2</sup>	0.0634		0.0904		0.134		0.134		0.143	
Outcome: log monthly net earnings	Så									
Academic & technological high school attend	school attended	led in grade 10								
No (ref.)										
Yes	0.25***	(0.01)								
Highest degree obtained in secondary educat	ondary education									
No degree (ref.)										
Vocational CAP/BEP			0.07***	(0.02)	0.08***	(0.02)	0.07***	(0.02)	0.07***	(0.02)
Vocational baccalauréat			0.19***	(0.02)	0.20***	(0.02)	0.19***	(0.02)	0.14***	(0.02)
Technological baccalauréat			0.28***	(0.02)	0.29***	(0.02)	0.24***	(0.02)	0.12***	(0.02)
Academic baccalauréat			0.44***	(0.02)	0.44***	(0.02)	0.35***	(0.02)	0.13***	(0.02)
Constant	***96.9	(0.01)	6.86***	(0.02)	7.00***	(0.02)	6.81***	(0.03)	6.56***	(0.07)
Observations	9,672		9,672		9,672		9,672		9,672	
$\mathbb{R}^2$	0.0837		0.137		0.207		0.218		0.282	

Notes: Standard errors in parentheses. \*\*\* p < .01, \*\* p < .05, \* p < .1 Source: Panel 1995-EVA.

education attainment largely accounts for these gaps (model 5), for this outcome, the general track maintains a statistically significant, substantial advantage ( $\pm$ 12%). The third panel on Table 2 refers to the risk of entering the working class (EGP V, VI and VII). Once more, short training degrees as well as full vocational diplomas offer no significant advantage over lower secondary degrees, particularly when accounting for selection effects in model 4. To the contrary, the protection effect of technological and general degrees looks strong in model 2 ( $\pm$ 24% and  $\pm$ 42%, respectively) and it is reduced but stays large in model 4 ( $\pm$ 16% and  $\pm$ 26% respectively). In this case too, higher education attainment accounts for large parts of the gaps between tracks, but technological and general diplomas still display significant, net advantages over lower secondary and vocational degrees.

The fourth panel on Table 2 refers to demotion into unskilled manual employment. This is the only instance where vocational qualifications display significant rewards over lower secondary degrees, which stay unchanged when controlling for both selection effects and tertiary education attainment. We also observe that full vocational diplomas enjoy marginal, non-significant advantages over shorter, vocational degrees. Moreover, even allowing for selection effects (model 4), technological and general diplomas display better prospects than vocational qualifications and lower secondary degrees, which are only partly explained by higher education attainment.

Finally, the bottom panel on Table 2 refers to a linear regression model of logearnings, which identifies a clear hierarchy between secondary qualifications, even when allowing for selection effects (model 4): short vocational diplomas enjoy a significant edge over lower attainment (+7%), which increases for full vocational (+19%), technological (+24%) and general (+35%) diplomas. Hence, the financial rewards of secondary degrees increase monotonically with their academic orientation. While the positive prospects of short and full vocational diplomas over lower secondary degrees are not accounted for by tertiary attainment, this explains about half of the advantage of technological degrees and almost two thirds of the advantage of academic degrees. Once more, even allowing for tertiary education attainment, academic qualifications enjoy the most favourable occupational prospects.

#### Social origins, track placement and occupational attainment

For each of the outcomes examined in the previous section, Table 3 presents the parameters referring to social origins, measured by parental education and social class, extrapolated from model 5. Hence, we consider occupational returns to track placement controlling for social and ability selection into tracks. The first column refers to the whole sample of graduates and control for higher education attainment, while the second column refers to youngsters who have not completed any tertiary programme. When controlling for academic performance, educational paths followed in secondary and tertiary education and the socio-demographic profile of the students, social origins still display a significant association with occupational outcomes.

Children of tertiary graduates (reference category) display a systematic advantage over those from less educated families. When comparing columns 1 and 2, we observe that, for access to service-class jobs, this advantage is similar across the two analytical samples, amounting to 3% to 5%. As regards the effects of class of origin on access to service-class destinations, net of parental education, they are negligible and non-significant, with one exception: among secondary graduates who did not

(Continued)

Table 3: Linear regressions of early occupational outcomes, comparison of results from model 5 for the whole sample and only individuals without higher

cancation																				
	Ŧ	Higher service class	ice class I		S	Service class I+II	ass I+II		Worki	ng class	Working class V+VI+VIIab	lab	Unskill	led worki.	Unskilled working class VIIab	/llab	Log	monthly n	Log monthly net earnings	s
	Model 5 – whole sample	- whole ole	Model 5 – only for those without HF	- only vithout	Model 5 – whole sample	whole	Model 5 – only for those without HF	- only vithout	Model 5 – whole sample		Model 5 – only for those without HF	- only without	Model 5 – w sample	- whole	Model 5 – whole Model 5 – only for sample those without HE	only for hout HE	Model 5 – whole sample	· whole	Model 5 – only for those without HF	– only without
Highest degree obtained in secondary educati	gree obtain	ned in se	econdary		lo uo		!					_								
No degree (ref.)																				
CAP/BEP	-0.00	(00.00)	-0.00	(00.0)	-0.04***	(0.01)	-0.03***	(0.01)	*40.0	(0.02)	*40.0	(0.02)	-0.09***	(0.05)	-0.09*** (0.02)	(0.02)	0.07***	(0.02)	0.06***	(0.02)
Vocational bac.	-0.02*** (0.01)	(0.01)	-0.01**	(0.01)	-0.06*** (0.01)		-0.05*** (0.01)	(0.01)	0.06***	(0.02)	0.06*** (0.02)		-0.09*** (0.02)		-0.08*** (0.02)	(0.02)	0.14***	(0.02)	0.15***	(0.02)
Techno- logical bac.	-0.03*** (0.01)	(0.01)	-0.00	(0.01)	0.02	(0.02)	0.03*	(0.02)	-0.04** (0.02)		-0.04 (0.03)	(0.03)	-0.14*** (0.02)	(0.02)	-0.10*** (0.02)	(0.02)	0.12***	(0.02)	0.12***	(0.03)
Academic bac.	0.02**	(0.01)	0.04***	(0.01)	0.12***	(0.02)	0.12***	(0.02)	-0.09***	(0.02)	-0.04 (0.03)	(0.03)	-0.14*** (0.02)	(0.02)	-0.14*** (0.02)	(0.02)	0.13***	(0.02)	0.13***	(0.03)
Parental education	lucation																			
Tertiary (ref.)																				
Upper secondary	-0.05*** (0.01)		-0.03*** (0.01)	(0.01)	-0.03** (0.01)		-0.05** (0.02)	(0.02)	0.01	(0.01)	(0.01) 0.05** (0.03)	(0.03)	0.01	(0.01)	(0.01) 0.04** (0.02)	(0.02)	-0.03**	(0.01)	-0.00	(0.02)
Less than US	-0.05***	(0.01)	-0.03*** (0.01)	(0.01)	-0.05*** (0.01)		-0.05*** (0.02)	(0.02)	0.03**	(0.01) 0.09***	***60.0	(0.02)	0.02***	(0.01)	(0.01) 0.07*** (0.02)	(0.02)	-0.02*	(0.01)	-0.02	(0.02)
Parental social class	cial class																			
I+II (ref.)																				
IIIab	-0.01	(0.01)	-0.00	(0.01)	-0.01	(0.01)	-0.02	(0.01)	0.02*	(0.01)	0.04*	(0.02)	0.01	(0.01)	0.03**	(0.03)	0.00	(0.01)	0.01	(0.02)
IVab	-0.01	(0.01)	-0.01*	(0.01)	-0.01	(0.02)	-0.03	(0.02)	0.02	(0.02)	0.04	(0.03)	0.01	(0.01)	0.03	(0.03)	0.02	(0.02)	0.04	(0.03)

Table 3: (Continued)

	Ξ	gher serv	Higher service class I		S	ervice cl	Service class I+II		Worki	ng class	Working class V+VI+VIIab	lab	Unskill	ed workii	Unskilled working class VIIab	/llab	Log	monthly 1	Log monthly net earnings	S
	Model 5 -	- whole	Model 5 - whole   Model 5 - only	- only	Model 5 –	whole	odel 5 – whole   Model 5 – only   Model 5 – whole   Model 5 – only   Model 5 – whole   Model 5 – only for   Model 5 – whole   Model 5 – only	- only	Model 5 -	- whole	Model 5	only -	Model 5 -	whole I	Model 5 -	only for	Model 5 -	- whole	Model 5	- only
	sample	pie	tor those without HE	without ::	sample		tor those without HE	vithout	sample		tor those without	without	sample		tnose witnout HE	nout ME	sample	ole	tor those without HE	without
IVc	-0.00	(0.01)	-0.00 (0.01) -0.01 (0.01)	(0.01)	-0.02	(0.02)	$-0.02  (0.02)  -0.05^{**}  (0.02)  0.01  (0.02)  0.01  (0.02)  0.00  (0.04)  0.05^{**}  (0.02)  0.06^{*}  (0.04)  -0.00  (0.02)  0.04  (0.02)  0.04  (0.03)  0.04  (0.0$	(0.02)	0.01	(0.02)	0.00	(0.04)	0.05**	(0.02)	*90.0	(0.04)	-0.00	(0.02)	0.04	(0.03)
V+VI	-0.01	(0.01)	-0.01 (0.01) -0.01 (0.01)		$-0.02  (0.01)  -0.04^{**}  (0.02)  0.06^{***}  (0.01)  0.08^{***}  (0.02)  0.03^{***}  (0.01)  0.06^{***}  (0.01)  0.06^{***}  (0.02)  0.06  (0.01)  0.06  (0.01)  0.06  (0.01)  0.01  (0.02)  0.00  (0.01)  0.01  (0.02)  0.00  (0.01)  0.01  0.01  (0.02)  0.00  (0.01)  0.01  (0.02)  0.00  (0.01)  0.01  0.01  (0.02)  0.00  (0.01)  0.01  $	(0.01)	-0.04**	(0.02)	0.06***	(0.01)	0.08***	(0.02)	0.03***	(0.01)	0.06***	(0.02)	00.00	(0.01)	0.01	(0.02)
VIIab	-0.01	(0.01)	-0.01	(0.01)	$-0.01  (0.01)  -0.01  (0.01)  -0.05 \\ \hline{}  (0.02)  -0.05 \\ \hline{}  (0.02)  0.06 \\ \hline{}  (0.02)  0.08 \\ \hline{}  (0.03)  0.06 \\ \hline{}  (0.02)  0.06 \\ \hline{}  (0.03)  0.06 \\ \hline{}  (0.03)  0.06 \\ \hline{}  (0.02)  0.08 \\ \hline{}  (0.03)  0.06 \\ \hline{}  (0.02)  0.08 \\ \hline{}  (0.03)  0.06 \\ \hline{}  (0.03)  0.08 \\$	(0.02)	-0.05***	(0.02)	0.06***	(0.02)	0.08***	(0.03)	***90.0	(0.02)	0.08***	(0.03)	-0.01	(0.02)	-0.00	(0.03)
Inactive	-0.01	(0.01)	-0.01 (0.01) -0.01 (0.01)		$-0.05  (0.03)  -0.05  (0.03)  -0.05  (0.03)  -0.04  (0.05)  -0.04  (0.06)  0.01  (0.04)  0.04  (0.05)  -0.11^{**}  (0.04)  -0.05  (0.05)  -0.01^{**}  (0.04)  -0.05  (0.05$	(0.03)	-0.05	(0.03)	-0.04	(0.05)	-0.04	(0.06)	0.01	(0.04)	0.04	(0.05)	-0.11**	(0.04)	-0.05	(0.05)
$ \text{Constant}  -0.34^{***}  (0.05)  -0.14^{***}  (0.04)  -0.69^{***}  (0.07)  -0.59^{***}  (0.08)  1.46^{***}  (0.07)  1.39^{***}  (0.11)  0.55^{***}  (0.06)  0.51^{***}  (0.09)  6.56^{***}  (0.07)  6.58^{***}  (0.07)  6.63^{***}  (0.11)  0.55^{***}  (0.08)  0.51^{***}  (0.08)  0$	-0.34***	(0.05)	-0.14***	(0.04)	-0.69***	(0.07)	-0.59***	(0.08)	1.46***	(0.07)	1.39***	(0.11)	0.55***	(0.00)	0.51***	(0.09)	6.56***	(0.07)	6.63***	(0.11)
z	10,816		5,250		10,816		5,250		10,816		5,250		10,816		5,250		9,672		4,621	

Notes: Standard errors in parentheses \*\*\* p < .01, \*\* p < .05, \* p < .1 Source: Panel 1995-EVA.

attain a tertiary degree, youngsters from lower social classes enjoy lower chances (-5%) of reaching the service class (I+II). Overall, while these results indicate that family background effects are largely mediated by educational paths, in line with previous research (Bernardi and Ballarino, 2016), the 'direct effects' of social origins are not negligible.

We reach similar conclusions when considering entry into the working classes. As regards protection from entry into manual occupations (working class altogether and unskilled working class), the parameters for parental education are again large and statistically significant, but only for graduates without a tertiary degree (4–9%). Moreover, for these outcomes, the parameters for social class are larger and more systematically significant than for access to service class occupations. Hence, the direct influences of a privileged social background are particularly marked when it comes to protecting youngsters without a tertiary degree from demotion into manual occupations:<sup>6</sup> a privileged parental class protects from downward mobility.

Finally, we investigated whether returns to high school diplomas vary according to social origins for the whole sample (Table 4) and for the subsample of youngsters without a higher education degree (Table 5). For these models, we rely on a more parsimonious specification of social origins, measured only by parental class in three categories, to gain statistical power. We present the predicted probabilities recovered from models incorporating an interaction term between the track of upper secondary graduation and parental social class.

Two main patterns emerge. First, for access to the higher service class and to the service class altogether, class of origin matters only for graduates of the academic track: youngsters from the service class enjoy significantly better prospects (+8 percentage points compared to those from the working class for access to the higher service class). Second, as regards the risks of entry into the working class or, more specifically, into unskilled working-class positions, we detect strong protection effects favouring the offspring of the service class, which are particularly marked for low-educated youngsters, that is, those with a lower secondary or a short vocational degree (CAP/BEP).

These results support the theoretical arguments developed in the section 'Theoretical background' regarding the boosting and compensatory strategies that socially advantaged families can mobilise to foster the occupational attainment of their children. Importantly, these patterns are similar for students without higher education, with an additional advantage in terms of earnings for students of the academic track who come from the service class (almost €140 more per month compared to those coming from the working class).

#### Robustness checks

We have carried out some sensitivity analyses of the results presented in the previous sections. First, the pattern of track differences in occupational attainment is broadly the same in statistical models that do not use multiple imputation and that are restricted to students with a full upper secondary certificate. The main difference lies in the size of the effects measured for the outcome 'access to the unskilled working class' which are slightly under-estimated without multiple imputation because it is the outcome where we lose the most respondents when carrying a complete case analysis.

**Table 4:** Predicted probabilities from models with an interaction term between secondary attainment and parental social class, controlling for sex, city size, immigrant status, performance in grade 9, higher education attainment, age and years in the labour market

			Parental so	ocial class		
	Workin	g class	Interme	ediate	Service	class
Outcome: Higher service class I				,		
Highest degree obtained in second education	ondary					
No degree	0.14	(0.01)	0.14	(0.01)	0.13	(0.01)
Vocational CAP/BEP	0.14	(0.01)	0.14	(0.01)	0.13	(0.01)
Vocational baccalauréat	0.12	(0.01)	0.12	(0.01)	0.10	(0.01)
Technological baccalauréat	0.11	(0.01)	0.11	(0.01)	0.12	(0.01)
Academic baccalauréat	0.13	(0.02)	0.14	(0.01)	0.21	(0.01)
Outcome: Service class I+II						
Highest degree obtained in second education	ondary					
No degree	0.30	(0.02)	0.33	(0.02)	0.31	(0.03)
Vocational CAP/BEP	0.26	(0.01)	0.28	(0.01)	0.27	(0.02)
Vocational baccalauréat	0.21	(0.01)	0.26	(0.01)	0.30	(0.02)
Technological baccalauréat	0.33	(0.02)	0.34	(0.01)	0.35	(0.02)
Academic baccalauréat	0.40	(0.02)	0.43	(0.01)	0.48	(0.01)
Outcome: Working class V+VI+	VIIab		'			
Highest degree obtained in second education	ondary					
No degree	0.46	(0.03)	0.34	(0.03)	0.25	(0.04)
Vocational CAP/BEP	0.45	(0.02)	0.39	(0.01)	0.34	(0.02)
Vocational baccalauréat	0.42	(0.02)	0.42	(0.02)	0.40	(0.03)
Technological baccalauréat	0.31	(0.02)	0.31	(0.01)	0.31	(0.02)
Academic baccalauréat	0.30	(0.02)	0.27	(0.01)	0.23	(0.01)
Outcome: Unskilled working cla	iss VIIab		,		,	
Highest degree obtained in second education	ondary					
No degree	0.35	(0.03)	0.20	(0.02)	0.10	(0.03)
Vocational CAP/BEP	0.18	(0.02)	0.15	(0.01)	0.09	(0.02)
Vocational baccalauréat	0.14	(0.02)	0.17	(0.01)	0.09	(0.02)
Technological baccalauréat	0.12	(0.01)	0.08	(0.01)	0.08	(0.01)
Academic baccalauréat	0.08	(0.01)	0.08	(0.01)	0.07	(0.01)
Outcome: monthly net earnings	(€)					
Highest degree obtained in seco	ondary educ	cation				
No degree	1,239.1	(31.6)	1,225.1	(27.6)	1,203.3	(43.9)
Vocational CAP/BEP	1,289.6	(20.4)	1,289.7	(16.4)	1,286.8	(27.3)
Vocational baccalauréat	1,323.6	(24.9)	1,367.3	(18.2)	1,314.4	(27.2)
Technological baccalauréat	1,292.6	(23.1)	1,340.7	(14.4)	1,348.1	(17.8)
Academic baccalauréat	1,351.9	(23.5)	1,377.5	(14.0)	1,405.5	(12.7)

Notes

Standard errors in parentheses. Source: Panel 1995-EVA.

**Table 5:** Predicted probabilities from models with an interaction term between secondary attainment and parental social class, for individuals with no higher education degree, controlling for sex, city size, immigrant status, performance in grade 9, age and years in the labour market

		P	arental soc	al class		
	Working	class	Interm	ediate	Service	class
Outcome: Higher service class I						
Highest degree obtained in secon	dary educatio	n				
No degree	0.01	(0.00)	0.02	(0.01)	0.02	(0.01)
Vocational CAP/BEP	0.01	(0.00)	0.01	(0.00)	0.01	(0.01)
Vocational baccalauréat	0.00	(0.00)	0.00	(0.00)	0.00	(0.01)
Technological baccalauréat	0.01	(0.01)	0.01	(0.01)	0.04	(0.02)
Academic baccalauréat	0.02	(0.02)	0.03	(0.01)	0.10	(0.02)
Outcome: Service class I+II						
Highest degree obtained in secon	dary educatio	n				
No degree	0.08	(0.01)	0.12	(0.02)	0.11	(0.03)
Vocational CAP/BEP	0.06	(0.01)	0.08	(0.01)	0.07	(0.01)
Vocational baccalauréat	0.03	(0.01)	0.06	(0.01)	0.11	(0.02)
Technological baccalauréat	0.09	(0.03)	0.15	(0.02)	0.19	(0.03)
Academic baccalauréat	0.24	(0.05)	0.17	(0.03)	0.32	(0.03)
Outcome: Working class V+VI+VI	lab					
Highest degree obtained in secon	dary educatio	n				
No degree	0.56	(0.03)	0.45	(0.02)	0.35	(0.04)
Vocational CAP/BEP	0.56	(0.01)	0.50	(0.01)	0.46	(0.02)
Vocational baccalauréat	0.54	(0.02)	0.54	(0.02)	0.50	(0.03)
Technological baccalauréat	0.45	(0.03)	0.43	(0.02)	0.37	(0.03)
Academic baccalauréat	0.49	(0.05)	0.47	(0.03)	0.30	(0.03)
Outcome: Unskilled working class	VIIab					
Highest degree obtained in sec	ondary educa	tion				
No degree	0.39	(0.03)	0.25	(0.02)	0.14	(0.04)
Vocational CAP/BEP	0.23	(0.02)	0.21	(0.01)	0.15	(0.02)
Vocational baccalauréat	0.19	(0.02)	0.24	(0.02)	0.14	(0.02)
Technological baccalauréat	0.23	(0.03)	0.17	(0.02)	0.13	(0.02)
Academic baccalauréat	0.15	(0.03)	0.13	(0.02)	0.09	(0.02)
Outcome: monthly net earnings (	€)					
Highest degree obtained in sec	ondary educa	tion				
No degree	1,029.9	(26.1)	1,019.1	(22.4)	1,013.2	(38.4)
Vocational CAP/BEP	1,080.1	(15.9)	1,083.3	(12.4)	1,087.7	(23.5)
Vocational baccalauréat	1,140.2	(22.8)	1,174.8	(16.9)	1,136.8	(27.7)
Technological baccalauréat	1,093.3	(32.0)	1,149.9	(21.0)	1,167.2	(28.8)
Academic <i>baccalauréat</i>	1,060.6	(46.3)	1,202.3	(29.3)	1,198.0	

Notes

Standard errors in parentheses. Source: Panel 1995-EVA.

Second, we used multinomial logistic regressions of the first job reported instead of a series of linear regression to model occupational attainment. The average marginal effects are displayed in Appendix C and show that this different modelling strategy does not change the conclusions regarding the hierarchy of tracks identified previously. In addition, we can see that holders of a technological diploma are more likely to get a job as a routine non-manual employee, higher grade (IIIa) than graduates from other secondary tracks.

Third, although the design of the EVA survey makes it difficult to find a reliable measure of employment status that would not be biased by educational experiences (see the section 'Data, variables and models'), we also looked at respondents' employment status two years after leaving education (Appendix D). We looked at the probability of being employed (versus unemployed or inactive), the probability of being unemployed (versus being employed or inactive) and the probability of being employed in a permanent job (versus being employed with a non-permanent contract). These analyses were done on a non-imputed sample (complete case analysis). Results suggest that all types of upper secondary diplomas bring benefits in terms of access to employment and to permanent jobs, compared to lower secondary degrees. As regards the three types of *baccalauréat*, they do not display any major difference and the confidence intervals for the corresponding estimates overlap. Hence, graduates from the vocational path do not enjoy any protection effect over those from the academic path in terms of employment status.

Fourth, we replicated the analyses using the occupation reported three years after leaving the education system instead of the first occupation reported. With this smaller sample, the association between high school tracks and occupational attainment remains unchanged (tables available on request).

Fifth, we used the last job reported in the EVA survey instead of the first one. When they reported this information, respondents were on average 27 years old and had left the educational system for five years. For more than two thirds of the respondents the last occupation reported was in the same social class as the first job reported, and the estimated effects of high school tracks are extremely similar (tables available on request).

Sixth, we suspect that selection into secondary tracks is not fully captured by controlling for the socio-demographic profile and prior academic performance. Hence, we ran models also controlling for the occupational aspirations of the parents in lower secondary education, which have been identified as a significant determinant of track choices in previous research (Ichou and Vallet, 2013). Since this variable draws on the parental questionnaire, with this specification we lose around 2,000 individuals due to missing information but, for this selected sample, the robust associations between high school tracks and early occupational outcomes remain largely unchanged (tables available on request).

Given the focus of this work on the horizontal differentiation of secondary education, we have not explored differences between tertiary fields of study, but one could suspect that the 'direct' effects of social origins persisting even when controlling for the length and selectivity of higher education programmes reflect differences between fields of study. However, introducing this variable never corrects the parameters for social origins (tables available on request).

Finally, the EVA survey only includes a broad measure of working time, hence we cannot convert the salary reported by our interviewees in full-time equivalents.

When we additionally control for the available information on working time (four categories: full-time, 80–100%, 50–80%, less than 50% of full-time), the coefficients for the secondary tracks are divided by around half, suggesting that their effect on earnings is, to some extent, mediated by working hours (tables available on request).

#### **Conclusions**

In this work, we have explored the interplay between social origins and track choices in shaping early-career occupational attainment in France. The first conclusion of our study is that, in this country, academic diplomas offer higher labour-market pay-offs than vocational diplomas, even when adjusting for selection into tracks based on prior school performance, family background and other socio-demographic characteristics. Most previous studies failed to take this selection bias into account and our analyses suggest that this limitation affected their results. In particular, the sequence of nested models specified in the subsection 'Track placement and occupational attainment' indicates that, when allowing for selection into secondary tracks, the advantages of academic qualifications are significantly reduced.

At the same time, these advantages remain large, both for the whole group of upper secondary graduates and for those who have not achieved a tertiary degree. In other words, the academic path is the most rewarding option in France, even if students do not complete tertiary education. This conclusion applies to any of the occupational outcomes that we could examine, and not only to access to service-class jobs, but also to protection from working-class and from unskilled working-class jobs.

In turn, since service-class children are highly over-represented in this track, even allowing for prior academic performance, this result entails significant implications for processes of intergenerational reproduction. Even when they do not continue to higher education or fail to complete it, graduates of the general track enjoy better prospects than if they had chosen the vocational path. Moreover, our results indicate that secondary academic qualifications are even more rewarding for service-class graduates, in terms of boosting access to service-class jobs, in line with our arguments on the role of social and cultural resources of the family background. Furthermore, among students failing to obtain a full upper secondary diploma, social origins display particularly strong protection effects from demotion into the bottom of the occupational hierarchy.

These results have important theoretical and policy implications. Contrary to standard assumptions of relative risk-aversion models (Breen and Goldthorpe, 1997)<sup>7</sup> of educational choice, we conclude that in France opting for the general track is not an occupationally risky choice, that is, this option is rewarding regardless of tertiary education attainment. Indeed, this conclusion matches the perceptions of French families about the labour-market prospects of secondary diplomas: a recent study confirms that both students and their parents of all social classes believe that secondary academic diplomas outperform vocational diplomas even when students do not complete higher education (Barone et al, 2019). At the same time, our results suggest that the stronger preference for the academic tracks displayed by service-class families (even among students with comparable performance) may be grounded in two 'objective' circumstances: if their children fail in the academic track and leave education with a lower secondary degree, these families are particularly effective in sheltering them from manual occupations. Moreover, if their children attain an

academic diploma but fail to complete tertiary education, these families are particularly effective in boosting their chances of access to upper-class positions.

From a policy perspective, these results impose a serious reflection on the actual function of vocational education in France. As in other countries, the vocational path is usually presented to students as an option facilitating labour-market insertion for students who do not plan to pursue tertiary education, while still leaving the doors open to change their mind and continue to tertiary education. However, our results suggest that these supposed occupational benefits do not materialise, while it is well known that those very few vocational graduates enrolling in a tertiary programme face high dropout risks (Ministère de l'Enseignement supérieur, de la Recherche et de l'Innovation, 2018). Vocational education in France seems to effectively contribute to intergenerational social reproduction, while failing to represent a rewarding alternative to the academic path<sup>8</sup>.

#### **Notes**

- <sup>1</sup> In principle, families may initiate a procedure to contest this recommendation, but cases where teachers contradict the initial  $v\alpha u$  and parents initiate this procedure are extremely rare (for more information on this process, see Barg, 2015).
- <sup>2</sup> As our data set originally codes the occupations in the French *Catégories socioprofessionnelles* (PCS) scheme, the translation into EGP categories is done using the STATA do-file by Veljkovic based on the Formation-Qualification Professionnelle 2014–2015 survey (Veljkovic, 2018). Veljkovic followed similar work by Vallet on the previous FQP surveys (Vallet, 2004: 143–5).
- <sup>3</sup> Unfortunately, detailed measures of the socio-economic profile of the area of residence are not available in the EVA data.
- <sup>4</sup> As explained in the section on the French educational system, access to higher education usually demands a full, upper secondary certificate. This may create a problem of multicollinearity between the variable on higher education attendance and the categories 'lower secondary degree' or 'CAP/BEP' of the variable on track attainment. However, 1.4% of graduates with a lower secondary degree and 5.6% of those with a CAP/BEP report having a tertiary degree. Indeed, some indirect paths can lead a small minority of these students into higher education: it was possible until 2019 to enter some short vocational programmes in higher education (that is, BTS) for students who took the baccalauréat but failed the examination. In addition, we included in the CAP/BEP category the brevet professionnel (BP) and the brevet de technicien (BT), which are vocational degrees that sometimes give access to higher education. Indeed, almost 60% of the students in the category CAP/BEP who reported a higher education degree had graduated from a BP or BT. Finally, two adult education programmes exist to gain a degree (capacité en droit or DAEU) which is recognised as equivalent to the baccalauréat and thus gives access to higher education. Unfortunately, information on graduation from these degrees was not collected in the EVA survey. We carried some multicollinearity diagnostics by looking at the Variance Inflation Factor (VIF) after running the regressions on nonimputed data. The VIF value averages 2.3 and for each category is never higher than 8, suggesting that we do not face any serious multicollinearity issue, thanks to the large size of the sample.
- <sup>5</sup> Age at the time of the interview and labour-market experience are included only in model 5, together with higher education attainment, because these two variables largely

- depend on higher education attendance and would thus act as a proxy for it, if included in models 1 to 4.
- <sup>6</sup> Social origins have only marginal influences on earnings at this early stage of careers. However, the models for class attainment suggest that these effects may materialise later in a career, given the much steeper earning progression of workers in service-class occupations.
- <sup>7</sup> These models claim that educational decisions are primarily motivated by the desire to avoid downward social-class mobility, and that this desire drives upper-class families to take riskier but ultimately more rewarding educational options, such as following the academic path.
- <sup>8</sup> Vocational education has been significantly reformed in 2009 by shortening the time necessary to get a *baccalauréat professionnel* and making the BEP an intermediate degree. The academic track was further reformed in 2019. It is too early to observe the effects of these reforms on labour–market outcomes with the available data. Hence, it will be interesting to update the conclusions of this work in the coming years.

#### Conflict of interest

The authors declare that there is no conflict of interest.

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## **Appendix**

Appendix A: survey design

The Panel d'élèves du second degré, recrutement 1995 is a nationally representative, longitudinal survey, was carried by the statistical office of the ministry of education (DEPP), which followed a cohort of students who entered lower secondary education (6th grade) in 1995 throughout secondary and tertiary education. During secondary education, administrative information on educational enrolment and attainment was obtained through school head interrogation or national administrative database. Parents answered a specific questionnaire in 1998 (response rate of 86.5%). In higher education, students were interrogated yearly until they reported that they had stopped studying for two consecutive years (response rate around f90% every year). Parents and student questionnaires were administered either via post mail or, in case of non-response to the mail questionnaire, via phone interviews. As of 2005, the contact details of respondents who had left the education system were transmitted to the National Institute of Statistics and Economic Studies (INSEE) which contacted them every year between 2005 and 2012 for the follow-up survey Entrée dans la vie adulte-EVA, using post mail questionnaires. Overall, 70% of the original 1995 sample answered at least once the EVA survey. Further information on the design of both surveys can be found in the documentation provided by the Quetelet PROGEDO Diffusion network (http://quetelet.progedo.fr/) which is responsible for the dissemination of these data.

Table A1 displays the distribution of the independent variables for the initial representative sample of the Panel d'élèves du second degré, recrutement 1995 (N = 17,830), for the sample of respondents with occupation reported three years after the exit of the education system (column 2) and for the sample with an occupation reported at any time (preferred option, N = 10,816). Results show that the sample of respondents with an occupation reported at any time is extremely similar to the initial 1995 representative sample in terms of sex, social and geographical origin, and performance in 9th grade. Differences mainly exist regarding the distribution of educational attainment where respondents without any degree are slightly underrepresented and respondents with academic *baccalauréat* are slightly over-represented. The table also confirms that the preferred solution of using the first occupational outcome reported results in an analytical sample more similar to the original 1995 representative one than using respondents with occupation reported three years after the exit of the education system, which lead to a stronger under-representation of low-educated respondents.

Table A1: Sample comparisons

		Initial sample of students in 1995 (1)	With occupa- tion 3 years after exit from the education system (2)	With occupa- tion reported in EVA (any- time) (3)
Sex	Men	51.6%	48.9%	49.7%
	Women	48.4%	51.1%	50.3%
Parental	Less than upper secondary	50.2%	51.9%	52.0%
education	Upper secondary	13.9%	16.8%	15.9%
	Tertiary	20.8%	23.7%	23.0%
	Missing	15.1%	7.6%	9.1%
Parental social	1+11	33.1%	36.0%	35.0%
class	Illab	35.6%	37.5%	36.5%
	IVab	5.3%	4.8%	5.0%
	IVc	2.2%	3.3%	2.9%
	V+VI	15.9%	13.7%	15.0%
	VIIab	5.9%	4.1%	4.9%
	Unemployed/inactive	1.6%	0.6%	0.7%
City size in 1995	Village or small town	36.6%	41.0%	40.2%
,	Medium-sized city	26.2%	25.7%	25.6%
	Large city, other than Paris	21.5%	20.5%	20.8%
	Paris area	15.8%	12.8%	13.4%
Parents' country	One parent born in France	85.9%	91.1%	89.7%
of birth	Both parents born abroad	12.2%	7.8%	9.2%
	Missing	1.9%	1.1%	1.2%
GPA in French	Mean	10.9	11.4	11.2
and math in grade	SD	2.8	2.6	2.7
9 (out of 20)	Missing	24.6%	14.8%	18.1%
Academic &	No	40.3%	32.5%	36.6%
technological high	Yes	54.6%	66.7%	62.0%
school attended in grade 10	Missing	5.0%	0.8%	1.4%
Highest degree	No degree	16.1%	3.6%	6.5%
obtained in sec-	Vocational CAP/BEP	13.8%	17.4%	20.5%
ondary education	Vocational baccalauréat	8.8%	14.8%	13.1%
	Technological baccalauréat	16.8%	22.5%	20.5%
	Academic baccalauréat	31.7%	40.9%	38.1%
	Missing	12.8%	0.8%	1.4%
Higher education	No degree	48.1%	42.6%	48.4%
attainment	Short degree +2	11.4%	18.7%	15.7%
	Bachelor's degree +3	14.4%	21.2%	19.9%
	Master's degree +4/5	6.7%	9.2%	8.8%
	Long degree-grandes écoles	4.8%	8.2%	7.1%
	Missing	14.6%	0.1%	0.1%
Number of observat	ions	17,830	6,786	10,816

Source: Panel 1995-EVA.

Appendix B: full results on the imputed datasets

Table B1: Linear regression of early occupational outcome, with robust standard errors: higher service class I

		(1) Track a Grad	(1) Track assignment Grade 10	(2) Hig attai	(2) High school attainment	(3) + socio-demographics	+ ographics	(4) +Performance in grade 9	mance in e 9	(5) + HE attainment & Age & years in LM	ainment & rs in LM
Aca	Academic & technological high school attended in	ed in grade 10									
	No (ref.)										
	Yes	0.21***	(0.01)								
Higi	Highest degree obtained in secondary education										
	No degree (ref.)										
	Vocational CAP/BEP			-0.00	(0.00)	0.01**	(00.0)	0.00	(0.01)	-0.00	(0.00)
	Vocational baccalauréat			0.01***	(00.00)	0.01	(0.01)	-0.00	(0.01)	-0.02***	(0.01)
	Technological baccalauréat			0.07***	(0.01)	0.06***	(0.01)	0.01	(0.01)	-0.03***	(0.01)
	Academic baccalauréat			0.32***	(0.01)	0.27***	(0.01)	0.18***	(0.01)	0.02**	(0.01)
Gender	der										
	Men (ref.)										
	Women					-0.07***	(0.01)	-0.08***	(0.01)	-0.05***	(0.01)
Pare	Parental education										
	Tertiary (ref.)										
	Upper secondary					-0.10***	(0.01)	-0.10***	(0.01)	***\$0'0-	(0.01)
	Less than upper secondary					-0.13***	(0.01)	-0.12***	(0.01)	***\$0.0-	(0.01)
Pare	Parental social class										
	1+11 (ref.)										
	Illab					-0.03***	(0.01)	-0.03***	(0.01)	-0.01	(0.01)
	IVab					-0.02	(0.02)	-0.02	(0.01)	-0.01	(0.01)
	IVc					0.01	(0.02)	-0.00	(0.02)	00'0-	(0.01)
	V+VI					-0.03***	(0.01)	-0.03**	(0.01)	-0.01	(0.01)

(Continued)

		(1) Track assignment	signment	(2) High	(2) High school	(3) +	+	(4) +Performance in	rmance in	(5) + HE attainment &	ainment &
		Grade 10	10	attair	attainment	socio-demographics	graphics	grade 9	e 9	Age & years in LM	rs in LM
	VIIab					-0.03**	(0.01)	-0.02	(0.01)	-0.01	(0.01)
	Unemployed/inactive					-0.03*	(0.02)	-0.02	(0.02)	-0.01	(0.01)
City	City size in grade 6										
	Village or small town					-0.01	(0.01)	-0.02**	(0.01)	-0.01	(0.01)
	Medium-sized city (ref.)										
	Large city, other than Paris					0.01	(0.01)	0.01	(0.01)	0.01*	(0.01)
	Paris area					0.07***	(0.01)	0.08**	(0.01)	0.05***	(0.01)
Pare	Parents' country of birth										
	At least one parent born in France (ref.)										
	Both parents born abroad					0.01	(0.01)	0.02**	(0.01)	0.01	(0.01)
GPA	GPA in French and math in 9th grade							0.02***	(00.00)	0.01***	(00.0)
Hig	Higher education attainment										
	No degree (ref.)										
	Short degree +2									00'0	(0.01)
	Bachelor's degree +3									***60.0	(0.01)
	Master's degree +4/5									0.34***	(0.02)
	Long degree-grandes écoles									0.61***	(0.03)
Age	Age at first job reported									0.02***	(00.0)
Year	Years in the labour market									-0.00	(00.0)
Con	Constant	0.01***	(00.00)	0.01**	(0.00)	0.16***	(0.01)	-0.04**	(0.02)	-0.34***	(0.05)
Obs	Observations	10,816		10,816		10,816		10,816		10,816	
$\mathbb{R}^2$		0.0862		0.169		0.215		0.232		0.413	

Notes: Standard errors in parentheses. \*\*\*  $\rho < .01$ , \*\*  $\rho < .05$ , \*  $\rho < .1$  Source: Panel 1995-EVA.

Table B2: Linear regression of early occupational outcome, with robust standard errors: service class I+II

		(1) Trook o	4000000	4∞i⊓ (c)	loodoo	(1) Transfer of continuous (2) Use a proposition (2)			:	(5)	0 110
		(1) Irack assignment Grade 10	ssignment 9 10	(z) Fign School attainment	school	(3) + SOCIO-0	(3) + socio-demographics	(4) +Performance in grade 9	mance in	(5) + HE attainment & Age & years in LM	annment & rs in LM
Academic & technological high school atter	ool attende	ided in grade 10									
No (ref.)											
Yes		0.43***	(0.01)								
Highest degree obtained in secondary education	ary educatio	u									
No degree (ref.)											
Vocational CAP/BEP				-0.02*	(0.01)	-0.01	(0.01)	-0.02*	(0.01)	-0.04***	(0.01)
Vocational baccalauréat				0.05***	(0.01)	0.04***	(0.01)	0.03**	(0.01)	-0.06***	(0.01)
Technological baccalauréat				0.27***	(0.01)	0.23***	(0.01)	0.19***	(0.01)	0.02	(0.02)
Academic baccalauréat				0.59***	(0.01)	0.51***	(0.01)	0.44***	(0.02)	0.12***	(0.02)
Gender											
Men (ref.)											
Women						0.05***	(0.01)	0.04***	(0.01)	0.04***	(0.01)
Parental education											
Tertiary (ref.)											
Upper secondary						-0.07***	(0.01)	-0.07***	(0.01)	-0.03**	(0.01)
Less than upper secondary						-0.12***	(0.01)	-0.11***	(0.01)	-0.05***	(0.01)
Parental social class											
1+11 (ref.)											
IIIab						-0.03***	(0.01)	-0.03***	(0.01)	-0.01	(0.01)
IVab						-0.03	(0.02)	-0.03	(0.02)	-0.01	(0.02)
IVc						-0.03	(0.02)	-0.03	(0.02)	-0.02	(0.02)
I/+VI						-0.05***	(0.01)	-0.05***	(0.01)	-0.02	(0.01)
VIIab						-0.08***	(0.02)	-0.07***	(0.02)	-0.05***	(0.02)
Unemployed/inactive						**60.0-	(0.04)	-0.07**	(0.04)	-0.05	(0.03)

	(1) Track assignment	ıment	(2) High school		(3) + socio-demographics	emographics	(4) +Performance in	mance in	(5) + HE attainment &	ainment &
	Grade 10		attainment	nt			grade 9	6	Age & years in LM	rs in LM
City size in grade 6										
Village or small town					-0.02	(0.01)	-0.02**	(0.01)	-0.01	(0.01)
Medium-sized city (ref.)										
Large city, other than Paris					-0.01	(0.01)	-0.00	(0.01)	-0.00	(0.01)
Paris area					0.06***	(0.01)	0.06***	(0.01)	0.04***	(0.01)
Parents' country of birth										
At least one parent born in France										
Both parents born abroad					0.04***	(0.01)	0.05***	(0.01)	0.03**	(0.01)
GPA in French and math in 9th grade							0.02***	(00.00)	0.01***	(0.00)
Higher education attainment		-								
No degree (ref.)										
Short degree +2									0.06***	(0.01)
Bachelor's degree +3									0.29***	(0.02)
Master's degree +4/5									0.35***	(0.02)
Long degree-grandes écoles									0.46***	(0.02)
Age at first job reported									0.04***	(00.00)
Years in the labour-market									-0.02***	(00.00)
Constant	0) ***60.0	(0.00)	0.07*** ((	(0.01)	0.19***	(0.02)	0.03	(0.02)	-0.69**	(0.07)
Observations	10,816	10	10,816		10,816		10,816		10,816	
R <sup>2</sup>	0.191	0	0.293		0.313		0.319		0.406	

Notes: Standard errors in parentheses \*\*\* p < .01, \*\* p < .05, \* p < .1 Source: Panel 1995-EVA.

(Continued)

Table B3: Linear regression of early occupational outcome, with robust standard errors: working class V+VI+VIIab

		(1) Track accion-	accion.	(2) High school	loohoo	(%)	(1) Track seeign. (2) High school (3)	1	(4) + Performance in	(5) + HF attainment	Painment
		ment Grade 10	ade 10	attainment	nent	socio-demographics	ographics	grad	grade 9	& Age & years in LM	ars in LM
Academic & technological high school atter	al high school attended in grade 10	10									
	No (ref.)										
	Yes	-0.32***	(0.01)								
Highest degree obtained in secondary education	in secondary education										
	No degree (ref.)										
	Vocational CAP/BEP			0.01	(0.02)	0.01	(0.02)	0.01	(0.02)	0.04*	(0.02)
	Vocational baccalauréat			-0.05**	(0.02)	-0.03	(0.02)	-0.03	(0.02)	***90.0	(0.02)
	Technological baccalauréat			-0.24***	(0.02)	-0.17**	(0.02)	-0.16**	(0.02)	-0.04**	(0.02)
	Academic baccalauréat			-0.42***	(0.02)	-0.28***	(0.02)	-0.26***	(0.02)	-0.09**	(0.02)
Gender											
	Men (ref.)										
	Women					-0.39***	(0.01)	-0.39***	(0.01)	-0.39**	(0.01)
Parental education											
	Tertiary (ref.)										
	Upper secondary					0.04***	(0.01)	0.03***	(0.01)	0.01	(0.01)
	Less than upper secondary					0.07***	(0.01)	***90.0	(0.01)	0.03**	(0.01)
Parental social class											
	I+II (ref.)										
	IIIab					0.03***	(0.01)	0.03***	(0.01)	0.02*	(0.01)
	IVab					0.03	(0.02)	0.03	(0.02)	0.02	(0.02)
	IVc					0.02	(0.03)	0.02	(0.03)	0.01	(0.02)
	V+VI					0.07***	(0.01)	0.07***	(0.01)	***90.0	(0.01)
	VIIab					0.08***	(0.02)	0.07***	(0.03)	***90'0	(0.02)

		1 :::									
		(1) Track assign- ment Grade 10	assign- ide 10	(2) High school attainment	school nent	(3) + socio-demographics	+ ographics	(4) +Perfo grad	(4) +Performance in grade 9	(5) + HE attaınment & Age & years in LM	annment Irs in LM
	Unemployed/inactive					-0.03	(0.05)	-0.03	(0.05)	-0.04	(0.05)
City size in grade 6											
	Village or small town					0.03***	(0.01)	0.03***	(0.01)	0.02**	(0.01)
	Medium-sized city (ref.)										
	Large city, other than Paris					-0.01	(0.01)	-0.02	(0.01)	-0.02	(0.01)
	Paris area					-0.08***	(0.01)	-0.08***	(0.01)	-0.06***	(0.01)
Parents' country of birth											
	At least one parent born in France (ref.)										
	Both parents born abroad					-0.06***	(0.01)	-0.06***	(0.01)	-0.05***	(0.01)
GPA in French and math in 9th grade							**00.0-	(0.00)	-0.00	(00.00)	
Higher education attain- ment											
	No degree (ref.)										
	Short degree +2									-0.02	(0.01)
	Bachelor's degree +3									-0.04**	(0.01)
	Master's degree +4/5									-0.07***	(0.02)
	Long degree-grandes écoles									-0.17***	(0.02)
Age at first job reported									-0.04***	(00.00)	
Years in the labour-market									0.02***	(00.00)	
Constant	0.52***	(0.01)	0.54***	(0.03)	0.60***	(0.03)	0.64***	(0.03)	1.46***	(0.07)	
Observations	10,816		10,816		10,816		10,816		10,816		
R2	0.111		0.151		0.332		0.333		0.357		

Standard errors in parentheses \*\*\* p<0.01, \*\* p<0.05, \* p<0.1 Source: Panel 1995-EVA.

Table B4: Linear regression of early occupational outcome, with robust standard errors: unskilled working class VIIab

0		,		5			1	2			
		(1) Track a Grad	(1) Track assignment Grade 10	(2) High school attainment	school nent	(3) + socio-demographics	+ graphics	(4) +Performance in grade 9	rmance in e 9	(5) + HE attainment & Age & years in LM	ainment & rs in LM
Academic & technological high school atter	nigh school attended in grade 10	10									
	No (ref.)										
	Yes	-0.17***	(0.01)								
Highest degree obtained in secondary education	secondary education										
	No degree (ref.)										
	Vocational CAP/BEP			-0.10***	(0.02)	-0.10***	(0.02)	-0.10***	(0.02)	-0.09***	(0.02)
	Vocational baccalauréat			-0.14**	(0.02)	-0.13***	(0.02)	-0.13***	(0.02)	-0.09***	(0.02)
	Technological baccalauréat			-0.25***	(0.02)	-0.21***	(0.02)	-0.21***	(0.02)	-0.14***	(0.02)
	Academic baccalauréat			-0.29***	(0.02)	-0.24***	(0.02)	-0.22***	(0.02)	-0.14**	(0.02)
Gender											
	Men (ref.)										
	Women					-0.12***	(0.01)	-0.12***	(0.01)	-0.12***	(0.01)
Parental education											
	Tertiary (ref.)										
	Upper secondary					0.02**	(0.01)	0.02**	(0.01)	0.01	(0.01)
	Less than upper secondary					0.03***	(0.01)	0.03***	(0.01)	0.02***	(0.01)
Parental social class											
	I+II (ref.)										
	IIIab					0.01*	(0.01)	0.01*	(0.01)	0.01	(0.01)
	IVab					0.02	(0.01)	0.01	(0.01)	0.01	(0.01)
	IVc					0.05**	(0.02)	0.05**	(0.02)	0.05**	(0.03)
	V+VI					0.04***	(0.01)	0.04***	(0.01)	0.03***	(0.01)
	VIIab					0.07***	(0.02)	0.06***	(0.02)	0.06***	(0.02)

		(1) Track a	(1) Track assignment	(2) High school	school	(3) +		(4) +Performance in		(5) + HE attainment &	ainment &
		Grad	Grade 10	attainment	nent	socio-demographics	graphics	grade 9		Age & years in LM	rs in LM
	Unemployed/inactive					0.02	(0.04)	0.02	(0.04)	0.01	(0.04)
City size in grade 6											
	Village or small town					0.02**	(0.01)	0.02***	(0.01)	0.02**	(0.01)
	Medium-sized city (ref.)										
	Large city, other than Paris					-0.00	(0.01)	-0.00	(0.01)	-0.00	(0.01)
	Paris area					-0.04***	(0.01)	-0.05***	(0.01)	-0.04***	(0.01)
Parents' country of birth											
	At least one parent born in France (ref.)										
	Both parents born abroad					-0.00	(0.01)	-0.00	(0.01)	00.00	(0.01)
GPA in French and math in 9th grade		**00.00	(0.00)	-0.00	(0.00)						
Higher education attainment	nt										
	No degree (ref.)										
	Short degree +2									-0.06***	(0.01)
	Bachelor's degree +3									-0.04***	(0.01)
	Master's degree +4/5									-0.04***	(0.01)
	Long degree-grandes écoles									-0.06***	(0.01)
Age at first job reported						-0.01***	(00.00)				
Years in the labour-market									0.01***	(00.00)	
Constant	0.22***	(0.01)	0.32***	(0.03)	0.31***	(0.02)	0.34***	(0.02)	***99.0	(90.0)	
Observations	10,816		10,816		10,816		10,816		10,816		
$\mathbb{R}^2$	0.0634		0.0904		0.134		0.134		0.143		

Notes: Standard errors in parentheses. \*\*\* p < .01, \*\* p < .05, \* p < .1 Source: Panel 1995-EVA.

Table B5: Linear regression of early occupational outcome, with robust standard errors: log monthly net earnings

0	(1) Track aceim. (2) Link echan	(1) Track assign	m (2) Hic	(2) High echool	6	b	(A)   Dorfo	(1) Dorformonco in	(E)   UE officiament 9	toinmont 9
		ment Grade 10		attainment	socio-demographics	ographics	grade 9	e 9		ars in LM
Academic & technologic	Academic & technological high school attended in grade 10									
	No (ref.)									
	Yes	0.25*** (0.01)	)1)							
Highest degree obtained	Highest degree obtained in secondary education									
	No degree (ref.)									
	Vocational CAP/BEP		0.07***	(0.02)	0.08***	(0.03)	0.07***	(0.03)	0.07***	(0.03)
	Vocational baccalauréat		0.19***	(0.02)	0.20***	(0.02)	0.19***	(0.02)	0.14***	(0.02)
	Technological baccalauréat		0.28**	(0.02)	0.29***	(0.02)	0.24***	(0.02)	0.12***	(0.02)
	Academic baccalauréat		0.44***	(0.02)	0.44***	(0.02)	0.35***	(0.02)	0.13***	(0.02)
Gender										
	Men (ref.)									
	Women				-0.20***	(0.01)	-0.20***	(0.01)	-0.19***	(0.01)
Parental education										
	Tertiary (ref.)									
	Upper secondary				-0.06***	(0.01)	-0.06***	(0.01)	-0.03**	(0.01)
	Less than upper secondary				-0.08***	(0.01)	-0.07***	(0.01)	-0.02*	(0.01)
Parental social class										
	IIIab				-0.01	(0.01)	-0.01	(0.01)	00.00	(0.01)
	IVab				0.01	(0.02)	0.01	(0.02)	0.02	(0.02)
	IVc				0.01	(0.03)	0.00	(0.03)	-0.00	(0.02)
	V+VI				-0.02	(0.01)	-0.02	(0.01)	0.00	(0.01)
	VIIab				-0.04*	(0.03)	-0.03	(0.02)	-0.01	(0.02)
	Unemployed/inactive				-0.13***	(0.05)	-0.11**	(0.02)	-0.11**	(0.04)

		(1) Track assign-	assign-	(2) High school	school	(3) +	+	(4) +Perfc	ormance in	(4) +Performance in (5) + HE attainment &	tainment &
		ment Grade 10	de 10	attain	attainment	socio-demographics	ographics	gra	grade 9	Age & years in LM	ars in LM
City size in grade 6											
	Village or small town					-0.01	(0.01)	-0.01	(0.01)	-0.01	(0.01)
	Medium-sized city (ref.)										
	Large city, other than Paris					-0.00	(0.01)	00.00	(0.01)	0.00	(0.01)
	Paris area					0.08***	(0.01)	0.09***	(0.01)	0.07***	(0.01)
Parents' country of birth											
	At least one parent born in France (ref.)										
	Both parents born abroad					0.00	(0.01)	0.01	(0.01)	0.00	(0.01)
GPA in French and math in 9th grade		0.02***	(00.0)	(0.00) 0.01***	(00.0)						
Higher education attainment	nent										
	No degree (ref.)										
	Short degree +2									0.14***	(0.01)
	Bachelor's degree +3									0.22***	(0.01)
	Master's degree +4/5									0.32***	(0.03)
	Long degree-grandes écoles									0.47***	(0.03)
Age at first job reported									0.01***	(00.00)	
Years in the labour market									-0.00	(0.00)	
Constant	***96.9	(0.01)	8.86***	(0.03)	7.00***	(0.02)	6.81***	(0.03)	6.56***	(0.07)	
Observations	9,672		9,672		9,672		9,672		9,672		
R <sup>2</sup>	0.0837		0.137		0.207		0.218		0.282		

Notes: Standard errors in parentheses. \*\* p < .01, \*\* p < .05, \* p < .1 Source: Panel 1995-EVA.

(Continued)

Appendix C: Multinomial logistic model of the first job reported (non-imputed data)

		(1) Tra	(1) Track assignment	nent	(2) High	(2) High school	(E)	(3) +	(4) +Pei	(4) +Performance in	(5) + HE attain-
		9	Grade 10		attair	attainment	socio-der	socio-demographics	28	grade 9	ment & Age & years in LM
Outcome 1:	Outcome 1: Higher service class I										
Academic	Academic & technological high school att	tended in grade 10	ade 10								
	No (ref.)										
	Yes	0.22***	(0.01)								
Highest de	Highest degree obtained in secondary edu	ucation			-						
	No degree (ref.)										
	Vocational CAP/BEP			-0.00	(0.01)	-0.00	(0.01)	-0.01	(0.01)	-0.05	(0.05)
	Vocational baccalauréat			0.01**	(0.01)	0.02**	(0.01)	0.03**	(0.01)	-0.00	(0.05)
	Technological baccalauréat			0.07***	(0.01)	0.07***	(0.01)	0.08***	(0.01)	0.01	(0.04)
	Academic baccalauréat			0.32***	(0.01)	0.28**	(0.01)	0.21***	(0.01)	0.04	(0.04)
Outcome 2:	Outcome 2: service class II				•						
Academic &	Academic & technological high school att	tended in grade 10	ade 10								
	No (ref.)										
	Yes	0.21***	(0.01)								
Highest de	Highest degree obtained in secondary edu	ucation									
	No degree (ref.)										
	Vocational CAP/BEP			-0.03*	(0.02)	-0.03*	(0.02)	-0.03*	(0.02)	-0.07*	(0.04)
	Vocational baccalauréat			0.01	(0.02)	0.02	(0.02)	0.01	(0.02)	-0.07*	(0.04)
	Technological baccalauréat			0.17***	(0.02)	0.16***	(0.02)	0.15***	(0.02)	-0.00	(0.04)
	Academic baccalauréat			0.25***	(0.02)	0.22***	(0.02)	0.22***	(0.02)	0.04	(0.04)

		(4) T	1	1000	17:11 (0)	lashes.	()				
			(1) Irack assignment Grade 10	<b>H</b>	(Z) HIGT attair	(Z) High school attainment	socio-den	(3) $^{+}$ socio-demographics	(4) + Pen gra	(4) + Performance In grade 9	(5) + HE attain- ment & Age & years in LM
Outcome 3:	Outcome 3: Routine non-manual employees,	, higher grade IIIa	e IIIa								
Academic &	Academic & technological high school att	tended in grade 10	ade 10								
	No (ref.)										
	Yes	-0.01	(0.01)								
Highest deg	Highest degree obtained in secondary ed	ucation									
	No degree (ref.)										
	Vocational CAP/BEP			0.03*	(0.02)	0.04*	(0.02)	0.04*	(0.02)	0.05**	(0.02)
	Vocational baccalauréat			0.05***	(0.02)	0.06***	(0.02)	0.06***	(0.02)	0.04	(0.02)
	Technological baccalauréat			0.10***	(0.02)	0.09***	(0.02)	0.08***	(0.02)	0.06***	(0.02)
	Academic baccalauréat			0.02	(0.02)	0.01	(0.02)	0.02	(0.02)	0.04	(0.02)
Outcome 4:	Outcome 4: Routine non-manual employees,	, lower grade IIIb	qIII								
Academic &	Academic & technological high school att	tended in grade 10	ade 10								
	No (ref.)										
	Yes	-0.11***	(0.01)								
Highest deg	Highest degree obtained in secondary ed	ucation									
	No degree (ref.)										
	Vocational CAP/BEP			-0.02	(0.03)	-0.02	(0.03)	-0.02	(0.03)	-0.00	(0.02)
	Vocational baccalauréat			-0.10***	(0.03)	-0.11***	(0.03)	-0.10***	(0.03)	-0.04**	(0.02)
	Technological baccalauréat			-0.15***	(0.02)	-0.19***	(0.03)	-0.17***	(0.03)	-0.06***	(0.02)
	Academic baccalauréat			-0.22***	(0.02)	-0.25***	(0.02)	-0.22***	(0.03)	-0.07***	(0.02)
Outcome 5:	Outcome 5: Independent workers IV										
Academic ≀	Academic & technological high school at	tended in grade 10	ade 10								

Appendix C: (Continued)

		(1) Tra (	(1) Track assignment Grade 10	ment	(2) Hig attaii	(2) High school attainment	(3 socio-den	(3) + socio-demographics	(4) +Pei	(4) +Performance in grade 9	(5) + HE attain- ment & Age &
	No (ref.)										
	Yes	-0.00	(0.00)								
Highest de	Highest degree obtained in secondary edu	ucation									
	No degree (ref.)										
	Vocational CAP/BEP			0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.01	(0.01)
	Vocational baccalauréat			0.02**	(0.01)	0.01*	(0.01)	0.01*	(0.01)	0.01	(0.01)
	Technological baccalauréat			0.01	(0.01)	0.01	(0.01)	0.01	(0.01)	0.00	(0.01)
	Academic baccalauréat			0.00	(0.01)	0.00	(0.01)	0.01	(0.01)	0.01	(0.01)
Outcome 6:	Outcome 6: Supervisors of manual workers	and skilled manual workers V & VI	nanual wo	rkers V & VI	_						
Academic	Academic & technological high school attended in grade 10	tended in gr	ade 10								
	No (ref.)										
	Yes	-0.15***	(0.01)								
Highest de	Highest degree obtained in secondary edu	ucation									
	No degree (ref.)										
	Vocational CAP/BEP			0.11***	(0.02)	0.10***	(0.02)	0.10***	(0.02)	0.10***	(0.02)
	Vocational baccalauréat			0.12***	(0.03)	***60.0	(0.02)	0.08***	(0.02)	0.10***	(0.02)
	Technological baccalauréat			0.03	(0.02)	0.04*	(0.02)	0.03	(0.02)	0.06***	(0.02)
	Academic baccalauréat			-0.10***	(0.02)	-0.06***	(0.02)	-0.04**	(0.02)	0.04*	(0.02)
Outcome 7:	Outcome 7: Unskilled manual workers VII										
Academic	Academic & technological high school attended in grade 10	tended in gr	ade 10								

		(1) Trac G	(1) Track assignment Grade 10	ment	(2) High attair	(2) High school attainment	(3 socio-den	(3) + socio-demographics	(4) +Per	(4) +Performance in grade 9	(5) + HE attain- ment & Age & years in LM
	No (ref.)										
	Yes	-0.15***	(0.01)								
Highest deg	Highest degree obtained in secondary education	ucation									
	No degree (ref.)										
	Vocational CAP/BEP			-0.09***	(0.03)	-0.09***	(0.02)	-0.09***	(0.02)	-0.04***	(0.02)
	Vocational baccalauréat			-0.12***	(0.03)	-0.10***	(0.02)	-0.10***	(0.02)	-0.03**	(0.02)
	Technological baccalauréat			-0.23***	(0.02)	-0.18***	(0.02)	-0.17***	(0.02)	-0.07***	(0.02)
	Academic baccalauréat			-0.27***	(0.02)	-0.21***	(0.02)	-0.20***	(0.02)	-0.08***	(0.02)
Observations	S	7,694		7,694		7,694		7,694		7,694	
Log-likelihood	pc	-13,122		-12,480		-11,236		-11,129		-10,311	
$\mathbb{R}^2$		0.0606		0.107		0.196		0.203		0.262	

Source: Panel 1995-EVA.

(Continued)

Appendix D: Linear regressions of the employment status two or three years after leaving the education system (non-imputed data)

		(1) Track assignment Grade 10	signment 10	(2) High school attainment	school nent	(3) + socio-demographics	+ ographics	(4) +Performance in grade 9	rmance de 9	(5) + HE attainment & age	HE t & age
Outcome: Being employed (v	Outcome: Being employed (versus unemployed or inactive)										
Academic & technological	Academic & technological high school attended in grade 10	10									
	No (ref.)										
	Yes	0.07***	(0.01)								
Highest degree obtained in secondary education	secondary education										
	No degree (ref.)										
	Vocational CAP/BEP			0.16***	(0.03)	0.15***	(0.03)	0.16***	(0.03)	0.15***	(0.03)
	Vocational baccalauréat			0.22***	(0.03)	0.21***	(0.03)	0.21***	(0.03)	0.20***	(0.03)
	Technological baccalauréat			0.25***	(0.03)	0.24***	(0.03)	0.23***	(0.03)	0.19***	(0.03)
	Academic baccalauréat			0.26***	(0.03)	0.25***	(0.03)	0.21***	(0.03)	0.17***	(0.03)
Constant		0.82***	(0.01)	0.64***	(0.03)	0.66***	(0.03)	0.55***	(0.04)	0.57***	(0.07)
Observations		7,193		7,193		7,193		7,193		7,193	
$\mathbb{R}^2$		0.010		0.030		0.040		0.044		0.050	
Outcome: Being unemployed (versus being en	(versus being employed or inactive)	tive)									
Academic & technological	Academic & technological high school attended in grade 10	10									
	No (ref.)										
	Yes	***90.0-	(0.01)								
Highest degree obtained in secondary education	secondary education										
	No degree (ref.)										
	Vocational CAP/BEP			-0.13***	(0.03)	-0.12***	(0.03)	-0.12***	(0.03)	-0.12***	(0.03)
	Vocational baccalauréat			-0.19***	(0.03)	-0.18***	(0.03)	-0.18***	(0.03)	-0.17***	(0.03)
	Technological baccalauréat			-0.21***	(0.03)	-0.20***	(0.03)	-0.19***	(0.03)	-0.16***	(0.03)
	Academic baccalauréat			-0.22***	(0.03)	-0.21***	(0.03)	-0.18***	(0.03)	-0.15***	(0.03)

strations         Grade 10         attainment attainment         socio-demographics           servations         0.16***         (0.01)         0.30***         (0.03)         0.29***         (0.03)           servations         0.007         0.007         0.025         0.035         0.035           servations           servations           come: Being in a permanent job among those in employment           Ademic & technological high school attended in grade 10           No (ref.)         No (ref.)<			(1) Track assignment	ssignment	(2) High school	school	(3) +	+	(4) +Performance	rmance	(5) + HE	뽀
Servations			Grade	9 10	attain	nent	socio-demo	graphics	in grat	le 9	attainment & age	& age
come: Being in a permanent job among those in employment         7,193	Constant		0.16***	(0.01)	0.30***	(0.03)	0.29***	(0.03)	0.37***	(0.03)	0.37***	(90.0)
come: Being in a permanent job among those in employment           Sedemic & technological high school attended in grade 10           No (ref.)         No (ref.)         No (ref.)         No (ref.)         No degree (ref.)	Observations		7,193		7,193		7,193		7,193		7,193	
come: Being in a permanent job among those in employment ademic & technological high school attended in grade 10           No (ref.)         No (ref.)         Academic Daccalauréat         (0.01)         Academic Daccalauréat         (0.01)         Academic Daccalauréat         (0.04)         (0.15***           Academic baccalauréat         0.63***         (0.01)         0.17***         (0.03)         0.18***         (0.04)         0.18***         (0.04)         0.15***           Istant         0.003         0.61**         6,616         6,616         6,616         0.014         0.016	R <sup>2</sup>		0.007		0.025		0.035		0.038		0.041	
No (ref.)   No (ref.)   No degree (ref.)   No cational baccalauréat   Academic baccalauréat   Academic baccalauréat   Academic baccalauréat   Academic baccalauréat   Servations   Servat	Outcome: Being in a permane	nt job among those in employm	ient									
shest degree obtained in secondary education         No degree (ref.)         0.05***         (0.01)         Modes	Academic & technological h	ligh school attended in grade	10									
shest degree obtained in secondary education         No degree (ref.)         0.05***         (0.01)         modes         co.04)         0.08**         (0.04)         0.08**         (0.04)         0.09**           Vocational Daccalauréat         Vocational Daccalauréat         0.13***         (0.04)         0.13***         (0.04)         0.13***           Academic Daccalauréat         0.014***         0.04)         0.14***         (0.04)         0.18***           Instant         Academic Daccalauréat         0.653**         (0.01)         0.53***         (0.03)         0.18***         (0.04)         0.16***           Servations         Academic Daccalauréat         0.003         0.01***         (0.04)         0.18***         (0.04)         0.18***         (0.04)         0.18***		No (ref.)										
ghest degree obtained in secondary education           No degree (ref.)         No degree (ref.)         0.08**         (0.04)         0.08**         (0.04)         0.09**           Vocational Daccalauréat         0.13***         (0.04)         0.13***         (0.04)         0.13***         (0.04)         0.13***           Technological Daccalauréat         0.14***         (0.04)         0.14***         (0.04)         0.18***         (0.04)         0.15***           Academic Daccalauréat         0.63***         (0.03)         0.18***         (0.04)         0.15***           Istant         6,616         6,616         6,616         6,616         6,616         6,616		Yes	0.05***	(0.01)								
No degree (ref.)         No degree (ref.)         0.08**         (0.04)         0.08**         (0.04)         0.09**           Vocational CAP/BEP         0.013***         (0.04)         0.13***         (0.04)         0.13***         (0.04)         0.13***           Technological baccalauréat         0.14***         (0.04)         0.14***         (0.04)         0.13***         (0.04)         0.13***           Academic baccalauréat         0.03**         0.03         0.18***         (0.04)         0.15***           servations         6,616         6,616         6,616         6,616         6,616         6,016	Highest degree obtained in	secondary education										
Vocational CAP/BEP         0.08**         (0.04)         0.08**         (0.04)         0.09**           Vocational baccalauréat         0.13***         (0.04)         0.13***         (0.04)         0.13***         (0.04)         0.13***           Technological baccalauréat         0.14***         (0.04)         0.14***         (0.04)         0.14***         (0.04)         0.13***           Academic baccalauréat         0.63***         (0.03)         0.18***         (0.04)         0.15***           Instant         6,616         6,616         6,616         6,616         6,616         6,616		No degree (ref.)										
Vocational baccalauréat         0.13***         (0.04)         0.13***         (0.04)         0.13***         (0.04)         0.13***           Technological baccalauréat         0.14***         (0.04)         0.14***         (0.04)         0.13***           Academic baccalauréat         0.03         0.17***         (0.03)         0.18***         (0.04)         0.15***           servations         6,616         6,616         6,616         6,616         6,616         0.016		Vocational CAP/BEP			0.08**	(0.04)	0.08**	(0.04)	**60.0	(0.04)	0.08**	(0.04)
Technological baccalauréat         0.14***         (0.04)         0.14***         (0.04)         0.13***         (0.04)         0.13***           Academic baccalauréat         0.63***         0.017***         (0.03)         0.18***         (0.04)         0.15***           Istant         0.63***         (0.01)         0.53***         (0.03)         0.55***         (0.04)         0.46***           servations         6,616         6,616         6,616         6,616         0.014         0.016		Vocational baccalauréat			0.13***	(0.04)	0.13***	(0.04)	0.13***	(0.04)	0.10***	(0.04)
Academic baccalauréat   Academic baccalauréat   O.03*** (0.03) (0.18*** (0.04) (0.15*** (0.04) (0.15*** (0.04) (0.15*** (0.04) (0.16*** (0.04) (0.05*** (0.0		Technological baccalauréat			0.14***	(0.04)	0.14***	(0.04)	0.13***	(0.04)	0.07*	(0.04)
servations         0.003         0.007         0.007         0.014         0.016		Academic baccalauréat			0.17***	(0.03)	0.18***	(0.04)	0.15***	(0.04)	90.0	(0.04)
servations 6,616 6,616 6,616 6,616 0.007 0.004	Constant		0.63***	(0.01)	0.53***	(0.03)	0.55***	(0.04)	0.46***	(0.05)	0.38***	(0.10)
0.003 0.007 0.014	Observations		6,616		6,616		6,616		6,616		6,616	
	R <sup>2</sup>		0.003		0.007		0.014		0.016		0.028	

Source: Panel 1995-EVA.