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It's not all about parents' education, it also matters what they do: Parents' employment and children's school success in Germany

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on Multidisciplinary Panel Data Research

SOEP – The German Socio-Economic Panel study at DIW Berlin

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Christina Boll and Malte Hoffmann

SOEPPapers on Multidisciplinary Panel Data Research at DIW Berlin

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in Germany

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Executive Summary

In this paper, we use SOEP data to explore whether parents' employment has an extra effect on the school achievement of their children, beyond the well-established effects of education, income and demography. First, we test whether the source of income or parents' unemployment determine children's school achievements. Second, we analyze the effect of job prestige and factors of societal engagement on children's performance. Our results indicate no clear income associations but the existence of an employment channel as well as a social channel from mothers to their kids. A negative role model for girls is found for maternal housework. Moreover, the fathers' job prestige is substantial.

1 | Introduction

Recent literature recognizes that for Germany family background still features not only success in school but also later income in life (Schnitzlein [2013]). Children whose parents have low educational attainment less often achieve tertiary education than children from different backgrounds (OECD [2012]: 107-109). Assuming the distribution of inborn talents being independent from the parental socio-economic status, this observation implies that potential is wasted. Apart from normative concerns that arise here, negative long-term consequences for the individual as well as for the economy are likely to occur (Wößmann/Piopiunik [2009]). The economic view aside, there are also individual non-monetary benefits of schooling like for instance a larger set of opportunities or better decision making (Oreopoulos/Salvanes [2011]). In order to achieve the optimal possible school achievement it is important to use every child's potential. Child poverty is seen a main cause for suboptimal school achievements (McLoyd [1998]). Laubstein et al. [2012] identify several factors determining the risk of child poverty in Germany including parental education, job security, a sufficient income and the availability of care facilities. This paper contributes to deepening our knowledge of determinants of school achievement focusing on time use, employment behavior, attitudes and other family background features related to children's school achievements.

Refining the term family background, parental education is a strong predictor of a child's school success. Theoretically, the positive correlation between parental and child education can have two explanations: One is pure selection, i.e. better parents choose higher education, the other causal. In obtaining more education one becomes a better parent. Evidence from the literature is not unequivocal. Björklund and Salvanes [2010], however, find that parental education plays a minor role in explaining variation in school achievement. Black et al. [2005] provide evidence that, with one exception, parental education causally affects the child's education only to a low degree. The exceptions are mother-son pairs, where increased maternal educational attainment leads to increased attainment of their sons, too. In contrast, evidence from Plug [2004], who uses a sample of adoptees, suggests only positive effects from father's education. Behrman/Rosenzweig [2002], who utilize data on pairs of identical twins, even find a negative, almost significant relationship between maternal education and the outcome.¹ To sum up and in accordance with Teachman [1987], there is evidence that parental education alone does not cover all relevant aspects of family background. The cited findings rather suggest that other attributes, which are more or less closely related to parental education play a role.

¹ In adoptee samples, if children are randomly assigned to adoptive parents, genetic factors can be excluded in the transmission. In twin samples, differences due to genetics can be differenced out between twins.

In this paper, we examine the association of various features relating to family background beyond education in order to shed more light on the driving forces of a child's school achievement. The investigated features are deemed to capture parental time-use, their employment biography and human capital, the household's pecuniary endowment, and socio-demographic characteristics. Due to data restrictions, the focus of this analysis is the time where all children are in school, i.e. aged between 7 to 15 years. To account for sample selection effects we estimate different specifications which are also checked for robustness amongst others by using two different indicators of achievement.

First, we test whether the source of income or parents' unemployment determine children's school achievements. Second, we analyze the effect of job prestige and factors of societal engagement on children's performance. Our results indicate no clear income associations but the existence of an employment channel as well as a social channel from mothers to their kids. A negative role model for girls is found for maternal housework. Moreover, the fathers' job prestige is substantial.

The paper is organized as follows. The next section discusses the theoretical considerations and the derived hypotheses thereof. Section 3 describes the data, the models and the samples used. Section 4 presents the main results whereas section 5 provides some additional results from robustness checks. Section 6 concludes.

2 | Theory and hypotheses

In this section, we introduce factors and mechanisms beyond parental education that, we argue, contribute to explaining a child's school achievement. We start with the factors that establish our main six hypotheses and supplement them with core socio-demographic attributes further on. It has to be noted that the importance of many described relationships depends on the child's age in focus. For instance, the extent of parental child care is arguably more important for primary school aged children than for teenagers. As our considered time window is relatively large (9 years), our theory needs to be somewhat general while the final specification is carried out in the empirical part.

One important factor related to education is parental behavior on the labor market because it affects several criterions which are considered to be important for the child's development and hence its school achievement. Empirical evidence on this topic is manifold but inconsistent (Goldberg et al. [2008]). This is not surprising given the time-, extent- and effect-variant nature of this characteristic. It is, for instance, important at which age of the child parental employment is measured and how it is measured.

Parental employment can affect the child's development through at least four inter-related channels, which are: (1) Time spent together with or in the presence of the child (child care time, housework time, leisure time), (2) the household's monetary endowment, (3) the transmission of values through role modeling (parenting style), and (4) the family stress level. The channels and their interactions will be described in more detail in the following.

Given the daily time restriction of twenty-four hours, parents can spend their time on labor, child related activities (child care), housework or other activities. The restriction is binding but not necessarily excluding. An increase in working hours, for instance, does not necessarily imply less time on child care; it might merely shift the upper bound downwards and time for other activities is reduced. Some kind of trade-off between child care and employment, however, may be induced. Moreover, this apparent immediate trade-off can also have long-term effects for the caring parent, typically the mother. If the time of out-of-labor force (OLF) or the part-time employment is prolonged, future earnings losses will occur, mainly attributable to the depreciation of human capital and/or foregone earnings due to human capital investment that has not been undertaken during that phase. Boll [2011] calculated expected losses for diverse scenarios. The induced income losses severely restrict the family's future welfare prospects.

Put differently, parental employment can bear positive effects for the child's development. An increase in working hours will raise a household's disposable income. In-

come has been found both positively associated (as in Dahl/Lochner [2012] or Duncan et al. [2011]) and non-significantly associated (as in Løken [2010] or Tamm [2008]) with the child's success in school. Several possible transmission channels were suggested in the literature: Direct effects include enhanced possibilities to purchase inputs favorable for the school achievement (Becker [1965]), e.g. by affording private tuition, moving to a better neighborhood, a reduced risk of stigmatization or even less parental stress (McLoyd [1990]). Schneider [2004] shows for West Germany that a higher maternal education does not prevent the household from purchasing private tutoring and homework help.

Akee et al. [2010] argue for an indirect effect: in a quasi-experimental study about the effect of an increase in household income on parental interactions with their children, a share of the profits from a newly built casino is periodically distributed to Native Americans but not to Non-Native Americans. This is an exogenous increase in household income for the first group. The authors compare the groups and find that individuals in this group do not reduce working time due to the windfall. The positive effect on school achievement the authors found is mainly attributable to improved parental interactions and experiences with their children. Their measures are the parents' statement on how often they know the whereabouts of their child and the child's statement on how much of the time spent together with their parents they consider to be enjoyable. The authors also emphasize that a larger effect occurs for low-income families. Others pointed out that low household income can increase the risk of separation and divorce (D'Addio [2007: 31f]). The latter occurrences are negatively related to the child's school achievement (Björklund/Sundström [2006]).

Based on the cited literature, we hypothesize that, in general, a higher household income is associated to better school achievements of children. However, the question arises whether the effects differ between different kinds of household income, i. e. maternal and paternal labor income. Results for the latter could indicate the existence of labor division and specialization effects or effects of role models and values conveyed with maternal and paternal employment. Relatedly, the propensity to work is negatively influenced by income types such as asset income or public or private transfers since they are non-labor income (Borjas [2010]). For employment can carry more than monetary benefits and underlying parental characteristics will not be fully ascertainable, we suggest that the source of income matters: income stemming from public transfers will be different from income from labor. We therefore hypothesize:

Hypothesis 1

We expect different effects of different sources of income. In particular, the receipt of public transfers is expected to be negatively associated, while income stemming from labor will be positively associated with the child's outcome.

With regard to the effect of parental unemployment there is evidence for a negative association between paternal job loss and school achievements (Gregg [2012]). Bratberg et al. [2008] on the other hand find no long term effect on children's earnings for Norwegian data. Rege et al. [2011] find a negative effect on school performance only for a father's job loss, but the effect could not be confirmed for maternal job losses. This is elucidated by the observation that mothers often extend child care time after losing their job, while for men the break with the traditional breadwinner model leads to psychological problems in the family. Despite having the same number of nominal working hours, namely zero, this implies a need to differentiate between (involuntary) unemployment and (voluntary) OLF time. Apart from the scars that arise through the lay-off, it leads to the opposite effects of the previously described benefits of employment and is also associated with arising psychological problems and low self-esteem (Ström [2003], Sheeran et al. [1995]). Low self-esteem, in particular, is considered to change parental expectations for their children to the negative (Kaplan et al. [2001]). We therefore hypothesize:

Hypothesis 2

In relation to the other statuses, parental unemployment is negatively affecting achievement.

A fundamental issue underlying all effects arising through employment is its extent. Depending on the working hours and conditions, employment might affect the family stress level and thus the environment where a child grows up. An effect can be positive if sorrows due to low income and social stigmatization are mitigated by higher income. Negative effects are also conceivable if, for instance, the job requires frequent unexpected overtime or leaves too little time for remaining activities. This time trade-off holds particularly true for the more highly educated who work more overtime hours than others [Zapf 2012]. Moreover, it applies especially to mothers who are traditionally more in charge with the care of their offspring than fathers. Findings of Felfe and Hsin [2012] show that maternal work-related hazards and stress negatively affect the child's development. Their results also portend that compensating maternal time investments are indeed significant but have a small effect.² Because overtime is positively related to the number of working hours (Institut der deutschen Wirtschaft [2014], Zapf [2012]) we hypothesize not only that high working hours tighten up parental time budgets but are also linked to the stress level within the family and that this particular-

² The linkage between mothers' time devoted to their children and the offspring's outcomes later in life depends also on the quality. The findings of Datcher-Loury [1988] show that extended time use on child care of highly educated, but not of less educated mothers, significantly increases children's years of schooling. Recent evidence from Kalil et al. [2012] demonstrates that more educated mothers spend more time on child-related activities that promote the child's development than less educated mothers do. Thus the amount and the quality of parental care time must both be regarded; often, however, only quantitative information is accessible as in the case for the used SOEP data.

ly applies to mothers.³ Whether the relationship is linear or not is not clear a priori. We therefore hypothesize:

Hypothesis 3

We expect negative effects by high working hours, particularly of mothers.

A fourth channel arises when the idea of a parental role model is applied. Employment can signal the child commitment, social participation and in the case of maternal employment also a modern view of a woman's role in society (Röhr-Sendlmeier [2009; 2011]). Often, the role model is interpreted as an intergenerational transmitter of attitudes. Fernandez, Fogli, and Olivetti [2004] and Morrill & Morrill [2013] find that women are more likely to participate in the labor force if their mother had already worked. This correlation also remains stable between mother-in-law/daughter-in-law pairs. With regards to other positive effects, Alessandri [1992] found that children with employed single-parent mothers have greater self-esteem than children with non-employed mothers and girls whose mothers are full-time employed had higher academic achievement. Finally, Anger [2012] notes that the older children get the more similar their personality becomes to the parental one. In terms of maternal autonomy and employment, this might have a positive influence on a child's, in particular a girl's, achievement. We therefore hypothesize:

Hypothesis 4

Maternal employment, for girls in particular, is positively associated with the outcome through role modeling.

One characteristic that has not been paid attention to yet is occupational prestige. In spite of its high correlation with income and education, it can be argued that parental social status relates not only to income but also to occupation. Furthermore, occupational prestige might reflect parental aspirations concerning human capital formation. We therefore hypothesize:

Hypothesis 5

Beyond education and income, parents' occupational prestige impacts positively on the child's schooling outcome.

To improve the view on the family life, additional 'soft factors' should be regarded. Extending our argumentation that occupational prestige and education carry aspirations, which we assume to correlate with the aspirations parents hold for their children, there is evidence that such aspirations are substantially heterogeneous across

³ The study shows that almost 80% of full-time employed workers, but only 65% of the part-time employed, work long hours. The data are from 2011.

similar levels of formal education (Ehmke [2009]; Paulus/Blossfeld [2007]). As the measurement of aspirations is typically rather complicated or subject to data limitations, we use a different approach. It attempts to shed more light on family life and parental aspirations by regarding indicators of parental interests and activities. Certain characteristics relate to personal aspirations and also to milieus in which certain norms for activities, attitudes and aspirations are hold up. Because the question of whether the milieu shapes personal characteristics or the milieu is chosen according to personal preferences is difficult to answer, we simply refer to the observed characteristics and argue through an indirect channel. We thus construe aspirations from family life, expressed by personal interests and behavior. We hypothesize:

Hypothesis 6

Given parental education, income, and employment features, parents' leisure activities and interests relating to parental attitudes and aspirations will still have an effect on the child's school outcome.

Suggested influence from socio-demographics on the child's outcome

Beyond parents' human capital and employment, socio-demographic attributes are found to have a bearing on the child's development. We will therefore control for a range of demographic factors. For instance, the existence of a partner and his or her time use play a key role. In general, couples face a lower risk of low household income, specialization in household duties can take place and events like unexpected unemployment can be cushioned better. Also the compatibility of family and career is harder to attain for lone parents since they would, for instance, *ceteris paribus* need more time for work to sustain a certain level of income.

Another aspect concerns the child itself. With respect to school performance, girls achieve better grades on average than boys (Voyer/Voyer [2014]). Furthermore, from an intra-family resources view, the number of siblings in relation with the birth order may also play a role (Lindahl [2008]; Booth/Kee [2005]). While many siblings decrease the parental resources left per child, being the first-born has the advantage that the previous effect will eventuate later. On the other side, parents gain experience from raising kids which can affect the later-born positively. A more general experience-related argument is the parents' age. As Nechyba et al. [1999], based on evidence by Geronimus et al. [1992], point out, this correlation is likely to be non-causal as underlying characteristics influence both the time of birth and the child's development. Particularly, birth timing is associated to the mother's education. In Germany, for instance, a positive correlation between education and age of first birth is observable (Boll et al. [2013]). Highly educated mothers face higher opportunity costs of child bearing and rearing, whereas the care time investment for each child is assumed not to be lower than a certain threshold [Oreopoulos/Salvanes 2011]. Moreover, according to Becker's

quantity-quality model, the demand for child quality increases with parents' education, resulting in fewer children (Becker/Lewis [1973]). We expect that preferences for a high child quality particularly address the first born child and motivate a rather low number of siblings in general. Hence, they should benefit the educational performance of the first born more than that of his or her junior siblings provided they exist. Finally, the number of siblings is related to the mother's age at first birth since production-technological restrictions might stipulate births at the end of the fertile life span of women. All in all, maternal age, education and the number of siblings are likely to be interrelated but their effect on the outcome variable is a-priori ambiguous. Hence, we control for each factor separately.

Considering the relationship between parental separation and divorce, a negative association can be ascertained. The main reason is distress for the child. It has been found, however, that the distress fades over time for the majority. The minority for which this does not apply achieves particularly bad outcomes on the other hand (Rodgers/Pryor [1998]). A different view on the topic is due to Björklund and Sundström [2006]. Using a sibling-difference approach, their findings suggest that the negative association between separation and children's development is rather due to selection than to causality. That is, unobserved parental traits that negatively impact children's school achievement also enforce separation. As we control for many factors that might capture to a certain extent parental unobservables related to their propensity of separation, we do not expect to find a significant effect from separation or divorce by its own, pointing to a causal effect.⁴

⁴ Another important factor is the peer group that can have an important influence, in particular in teenage years. However, our dataset is limited regarding suitable data on this topic (Lohmann et al. 2009) - only milieu indicators might capture some of the effect. Hence, we do not explicitly consider this issue here.

3 | Data, method and samples

We make use of the German Socio Economic Panel Study (SOEP, v29, see Wagner et al. 2007), where we link parental data to child's data from the youth questionnaire of the years 2000-2012. As the outcome is available for only one point in time, our analysis is a cross-section analysis. Owing to the restrictions in the number of observations, we consider retrospective parental data only from the time onwards when the child was enrolled in school.

Dependent Variables

To check the robustness of our results we use two different endogenous variables. One is the (expected) school leave degree (ESLD), the other is a Grade Point Average (henceforth: GPA). Their advantages and disadvantages are inversely related. Using the expected school leave degree discards variation within a certain school type since it does not regard the variation in grades; it accepts, however, the structure of the educational system.⁵ By contrast, the calculation of the GPA requires a scheme to convert grades between school types. Such a scheme does not exist in general. On the other hand, grade variation within a school type is regarded. The dependent variables are measured at about the age of 15 to 17 which is close to or already the end of a school career. The first variable carries the interpretation that only the type of graduation matters in later life as – except for those who resume a higher schooling degree later in life – it paves the way for the highest feasible educational level and henceforth career perspectives.⁶ The second variable regards the heterogeneity in individual performance somewhat more and might therefore be more informative.

We base ESLD on either a finished school graduation or, if the child is still in school, on the usual graduation for the current school it is on. The latter typically only applies to pupils on the Gymnasium – pupils on other school types are graduated from before the age of 17 if no grade retention or comparable events took place. The ordering follows the level of requirement. If possible, we double-check the school graduation with

⁵ There are three main secondary school types in Germany. They differ in requirements to attain a certain grade. The highest standards are found at the upper secondary school ("Gymnasium"), the lowest at the lower secondary school ("Hauptschule"). In between is the middle secondary school ("Realschule"). The grades on each school range from 1 (the best grade) to 6 (the worst grade). The different requirements and outcomes can be used for evaluation of school achievement. There are, however, more but less often visited school types in Germany – a fact that is also reflected in the SOEP. For the purpose of this paper, it is convenient to assign these to the scheme above. Therefore pupils at technical secondary schools were assigned to the Gymnasium. Pupils currently at an occupational school were assigned to the type of school they were visiting before. This is done because there is a plethora of different occupational schools in Germany which also cannot be sensibly ordered. The assumption is that pupils would self-select into further education that meets their standards, neither higher nor lower.

⁶ Although in principal, a lower secondary school degree does not make tertiary education impossible, de facto only few persons graduating from lower secondary school enter college later in life (Statistisches Bundesamt [2013]).

SOEP-data obtained from later questionnaires. This procedure also allows including pupils from comprehensive schools where the type of graduation can be unclear. Differences in the graduation rates between the German states imply that the requirements to be on a certain school type vary or, put differently, the distances between the threshold values for the underlying latent continuous variable are specific to each German state. In order to remove such differences, we standardize the measure on state level, so the variable becomes metric.

The GPA is computed from answers to the questions about the last grades in the main subjects German, Mathematics and the first foreign language. The answers were given once for all by the adolescent when he or she turned 17. Some individuals reported finer information in terms of half point grading which is incorporated. To obtain a single variable that can be compared across pupils from different school types, differences due to valuation standards have to be removed and the grades from three subjects have to be merged. The transformation between school types is based on the “Hamburger Stadtteilschule” transformation scheme. Hereby, a new scale, ranging from 1 to 9 is created. The grades from pupils on the upper track secondary school are transferred one-to-one on the new scale. The grades from pupils on the other schools are transformed. If a pupil achieved the best grade, i.e. a 1, in a subject at the school type with the lowest requirements (Hauptschule) the “transformed” grade at the most difficult school (Gymnasium) is a 4. The grade on the new scale is then accordingly 4. If the pupil on lower secondary track did not achieve a 1 but the second worst grade, that is a 5, the corresponding grade on the new scale will be 8. Pupils at comprehensive schools have subject-specific valuation standards. Thus, they are subject-wise assigned to the three basic school types Hauptschule, Realschule and Gymnasium. For convenience of interpretation in the regressions, the new scale, which ranges from 1 to 9, is reversed such that favorable grades are larger than unfavorable ones. Table 2 in Appendix A1 provides an illustrative example.

Extending the previous measure of success, we standardize the grades for each subject statewise. In so doing, we account for both general and subject specific differences in level and variance between federal states. To have a large enough number of observations when standardizing, all grades over the years acquired in a certain federal state were pooled. It is hereby assumed that the relative requirements in each federal state remained stable over the decade.⁷ The final step is to apply the arithmetic mean to the standardized grades on the three subjects.

In creating the dependent variables with the described method, we transformed two variables initially containing ordered categories to two more or less metric ones. While the GPA appears metric, the (expected) school leave degree kept some of its categorical

⁷ Saarland and Rhineland-Palatinate were treated as one federal state for data reasons.

character (please find the respective histograms for the two dependent variables in diagram 2 in appendix A1). Yet it consists of sufficiently many distinct observations. For both dependent variables, we therefore apply ordinary least squares.⁸

Explanatory variables

According to the goal of this paper to evaluate the additional effect of parents' employment on their offspring's school achievement, we partition the set of explanatory variables into three groups which are successively added in the estimation process (diagram 1). The first set includes socio-demographic variables only (model I). Model I is enriched by human capital related variables of income and education yielding model II, and model III additionally comprises variables related to parents' employment status and employment biography.

Table 1

Model types

Model I	Model II	Model III
Socio-demographic variables	Socio-demographic variables	Socio-demographic variables
	Human capital variables	Human capital variables
		Employment status, employment biography

With our list of covariates we extend former analyses in two aspects, (a) our income variables are more fine-grained in order to investigate the particular importance of labor earnings, and (b) we furthermore add an indexing variable of 'soft factors' to the demographic variables that has been exclusively constructed for this analysis. However, the third category that comprises of the employment biography variables represents the focus of this paper.

Appendix A2 provides a comprehensive variable description and Table 4-7 in appendix A3 the respective summary statistics, so we will not go into details here. In short, as to the *socio-demographic* variables, we control for the state of living together with both parents or one parent only, the number of siblings, birth order, parental age, milieu, migration background, daily workloads concerning household and childcare tasks, and the family's number of moves. *Human capital* related variables comprise years of attained education of each parent and four income categories (net household income, gross labor earnings, asset income, private and public transfers). *Employment status and biography* related variables refer to the factual weekly working hours (of

⁸ We abstain from using robust standard errors as the differences to ordinary standard errors turned out to be small.

mothers in the child's age span 7 to 9 only) and the years of full-time employment, part-time employment, years out of the labor force (OLF), years of further education and years of unemployment (the latter serving as a reference category) of each parent. Finally, this category is completed by information referring to the occupational prestige given that the parent is (or has at least once been) employed.

Samples

If one attempts to explain school achievement, the relevant characteristics of all available parent (-like) household members should be regarded. In not so few cases, however, the household composition changes, household members leave the household or are perhaps replaced by other persons. Owing to potential time variation within the scope of nine years, including partner data would require strong assumptions on a model and also not be feasible for some households at all. We therefore estimate two different sample specifications which address this issue.

In the first specification, a child's data is linked separately to only the mother's and only the father's characteristics, respectively, not directly regarding possibly available partner data.

The link is established by the information about the respective parent's personal number in the youth questionnaire. If we merge the child's data with parental data via the mother's personal number, the mother is termed as reference parent. The data that has been linked to the child will refer solely to the mother. If we merge via the father's personal number, the father is called reference parent. The data that has been linked to the child will refer solely to the father, then.

In addition to the implicit restriction that the parent must exist (in the SOEP), one more restriction is set up, however: In the data set where child's data are linked to the mothers' data, the mother has to be in the SOEP at all considered times, i.e. from the child's age of 7 to 15. The same has to hold true for the father for the data set where child's data are linked to fathers' data.⁹ This first specification leaves us with two samples – one with the mother as the reference parent, one with the father in this position.¹⁰

⁹ Note that the fact that the parent has to be in the SOEP at all considered times is likely to threaten sample representativeness. Evidence is provided by Spieß / Kroh [2008] who predicted the probability of re-interviewing versus refusal in the year 2006. Amongst others, non-German households and households experiencing separation and unemployment were associated with an increased risk of attrition. As argued, these factors are also related to the child's school achievement. Hence, even the sample disregarding partner information might be positively selected with regards to the endogenous variable.

¹⁰ One might criticize that some children grow up with only one parent, say the mother, but supply both parents' personal numbers. Linking the child with father's data in this case might then be somewhat misleading. But although the child lives officially with the mother, we cannot exclude that the child spends much time with its father. Hence, we use the data if available, although the influence is most certainly heterogeneous across the children.

Although it is sometimes possible to merge parental partner data to the data set in a second step, there is an advantage not to do it. If data of only one parent is used, the household composition is allowed to change, for example due to a separation of parents. However, the partner data are of interest, too, therefore a second specification is set up.

The second specification embarks with linking the child's data again to either the mother or the father and activating the restriction on the parent to have participated in the SOEP in the considered time range once more. Then each sample is further restricted to those who lived together in a relationship with one and the same person during the whole period from the child's age 7 to 15. The person is called partner and also has to be in the SOEP in the considered period. Given the constant partner, we can enrich the model with partner data. We treat cohabitation, marriage and switching between the two states as the same. The important aspect is to have one and the same partner during the whole period. Those who were at least once in this period without a partner or switched the partner are hence excluded. The two partner data samples with one time the mother being the reference parent, the other time the father, have many observations in common (just in "opposite positions") but they are not completely the same: if, for instance, both biological parents live separated and one or both have new partners, who are also in the SOEP, the information differs.

Note that the time horizon of the aforementioned "living" variables is different from that of the constant partner: Having lived together with mother and father or one parent only focuses on the child's age span 0 to 15. Moreover, the living variables also address the issue of biological parents whereas the constant partner restriction does not. This second sample specification leaves us with two more samples – one with the mother as the reference parent and one with the father in this position. Note that due to the additional restriction of stable couples, the two samples of specification 2 are subsamples of the two samples of specification 1.¹¹

The restriction of stable couples is likely to cause positive selection effects with respect to the outcome variable as stable partnerships are expected to positively impact on the child's development. As stable partners have to be observed, there is a double selection. We therefore check the effects of partnership survival on the main endogenous variable, the expected school leave degree. We perform t-tests on the equality of the mean value. We do not find significant mean-value differences for samples without

¹¹ One critique by Björklund/Chadwick [2003] points at caveats by treating biological and non-biological fathers the same: regarding intergenerational income mobility, the association between the biological father and the child is much stronger, presumably due to inherited ability. This indicates potential differences also for other outcomes. We ignore the issue for two reasons: Firstly, we restrict the sample to partners that were there at all considered times, the difference might therefore not be expected too strong. Secondly, the low number of cases would make separate analyses difficult. Please find detailed information on the descriptive comparison of endogenous variables in Table 3 of A2 in the appendix.

partner data. For the expected school leave degree in the mother's sample with partner, we run a one-sided t-test (with unequal variances). The test results indicate differences in the mean value at the 10%-level. The same t-test result applies to father's samples with partner. Moreover, the average expected school leave degree is somewhat higher in our stable partnership-samples than on average.¹² That is, indeed, the results hint at a slightly positive selection of stable couples that requires to carefully interpret results arising from sample comparisons. However, as we are more interested in the structural information within samples this finding does not cause us to modify our specification strategy.

Through incorporating the maximum value of the prestige variable during the considered period, individuals who have never worked in that period are dropped from the sample. In order to take into account potential selection effects due to the employment restriction, we have estimated several specifications. For the analyses without incorporated partner data, each model was estimated with the full sample, but also with the sample for which the restriction "at least once employed during the regarded period" binds (for a visualization, see Table 7 in appendix A4)

We chose the sample with binding restrictions for both parents as the main samples. Therefore, *in Section 4 only results referring to this specification are discussed*. Important deviating results from other specifications are reported in Section 5.¹³

For the analysis with considered partner data, each model was additionally estimated under the restrictions "partner at least once employed during the regarded period" and "reference parent and partner were both at least once employed during the regarded period". One exception occurred in the father's samples: if the female partner was employed, then the father was, too. So the restriction "reference parent and partner were both at least once employed during the regarded period" is equal to "partner at least once employed during the regarded period" in this case. Again, we selected the samples with binding restrictions for both parents as the main samples.¹⁴ See the appendix for a descriptive table. Tables 9-12 in appendix A5 show the results for our selected specifications.

¹² Please find detailed information on the descriptive comparison of endogenous variables in Table 3 of A2 in the appendix.

¹³ Detailed results from the full sample may be provided on request.

¹⁴ We could find some slight changes when the restriction held for the female part. The effect through the paternal restriction affected only a small number of observations and virtually no differences were visible, thus these results are not shown at all. This observation also implies that most men were at least once in employment.

4 | Main results

Generally, it is notable that the results for the samples with partner data are often similar. The reason is that in many cases the same parental individuals are present, just in opposite positions. But as described in section 3, the samples are not the same. One observation concerns the sample selection of parents which reduces the variation in some of the variables. In particular, the stable households are marked by little variation in paternal employment and few cases unequal to zero in some of the “number of years living together with”-variables. So there is some stability in family life which suggests that the sample mainly consists of rather unproblematic, homogenous households. Indeed, children in stable partnerships face somewhat more favorable outcomes. However, as we will show in more detail below, the structural information gained from those samples resembles to a wide extent the patterns observed in samples without considered partner data.

For the *socio-demographic variables* we find results in accordance with the literature. Robust effects are ascertained through the *child's gender* whereat we find girls attaining higher achievement than boys. The effect is typically of the magnitude of about a third of a full grade. The position in the *birth order* turns out to be of noticeable importance, too, with the more advantaged the sooner born. The *number of siblings* is sometimes in the first model significantly positively, but never negatively, associated with the outcome.¹⁵ The *number of moves* in the last nine years, although mostly negatively related to the outcome, plays no significant role.

The dummy variable for living in former *East Germany* is exclusively positively significant and also exhibiting quite a strong effect. This is surprising as the dependent variable has undergone state-level standardization. Analyses divided according to the child's gender reveal that the effect is driven by sons. The indicator variable for living in a *rural area* is in most models significantly negatively associated with the outcome. However, the effect is slightly diminished once human capital and employment biography of parents are controlled for and even becomes insignificant in the samples with partner data.

Furthermore, in the mother samples and also in some of the father samples, there is a negative association of *maternal housework* in the period where the child was aged between 7 and 9. We provide two explanations. One is that the variable might take up some negative effects through unemployment as women might tag their “free time” as housework to avoid stigmatization. The other one is linked to the role model channel: a mother doing a lot of housework embodies the traditional role model and daughters

¹⁵ It is possible that birth order already takes up some of the siblings' variable's effect, because a high birth order is only possible with several siblings.

will not enjoy potential benefits of a working mother. This interpretation is strengthened by additional analyses presented in Section 5 which indeed show that the negative effect is driven by the daughters in the sample: boys are not significantly affected.

As expected, *parental age* is positively associated; the effect is diminished if variable-rich specifications are chosen, but remains highly significant. The weakening of the effect when human capital variables are controlled for is in line with expectations since a positive correlation between the parental age and income or education can be expected.

One interesting result concerns the *soft factor variables*: paternal soft factors are a lot less significant than maternal soft factors once maternal soft factors, paternal years of education and paternal income are controlled for. Paternal soft factors even become insignificant in some specifications. This is remarkable, since they are highly significant in father samples without partner data. Analyses split by the child's gender indicate that the stronger maternal effect is driven slightly more by the sons in the sample (see Section 5). We further observe that a soft variables' effect size dwindles by roughly a half when the set of human capital variables is added – the main reason being its correlation to education.

Moreover, no effects are brought about by parents having direct *migration background*. Indirect migration background exhibits negative associations in the first model of the father's samples; the results are not robust, however.

We now discuss results for *human capital variables*. Our results for parental education are as expected: a highly significant, positive association to the child's expected school leave degree can be found. In contrast to former analyses in the literature, remaining effects through inherited abilities and assortative mating are not excluded in our analyses.

With regards to *income variables* we found mixed results. First of all, asset income is only weakly significant or insignificant in father samples with partner, otherwise not significant. We hence dropped the variable from our estimations. Starting by discussing labor income, we find that in samples with the mother being the reference partner and excluded partner information, it is negatively associated with the child's outcome. It is unlikely that money harms the outcome, instead, underlying characteristics like many working hours are more likely to explain the negative association. Also a slight correction effect to the positive coefficient of net household income can be adduced as an explanation. In samples with partner data, the corresponding variable is insignificant. The effect of the father's labor income is overall not significantly different from zero. We suggest a possible reason for that, which is a noticeable correlation between household income and paternal labor earnings. This explanation might also be applicable to samples with stable partnerships. When it comes to public transfers, we find

negative associations for the samples without partner data for model II and one positive effect for public transfer income in model III for the mother sample with partner data.

Net household income turns out to be highly positively related to the outcome variables in most mother samples, in particular for samples without partner. A high household income might not only indicate sufficient monetary endowment but in those samples also hint at a stable relationship because the partner contributes to the household income. Private transfers play solely a role in the second model of mother samples without a partner. In sum it can be observed that many effects shrink when the model is enriched with variables of the employment biography.

As to *employment variables*, we find negative effects for the *factual number of maternal working hours between the child's age 7 and 9*, the variable is significant in merely one specification, however. In further analyses, we examined the influence of overtime in several specifications which were mostly insignificant. Furthermore, the overtime coefficient would be difficult to interpret due to reduced number of observations that result from the construction of the variable. It requires information on contract working hours that lacks for amongst others the self-employed. We therefore skipped the overtime variable. We also tested the hypothesis of a quadratic increase in effect of factual working hours, but this could neither be confirmed and was also skipped.

While maternal *maximum prestige* is only significant in the samples without partner data, paternal maximum prestige exerts an overall highly significant positive effect, also when maternal maximum prestige is simultaneously included. The effect size for paternal maximum prestige also exceeds the maternal one by far when the samples without partner data are compared. Sub analyses show that the effect of education is diminished once the prestige variable's is included. Using the average prestige value over the years of employment instead of the maximum value does not change any of these relations substantially.

With regards to the *employment biography*, we find much stronger effects for the mother or the maternal partner than for the father. This is attributable to little variation in the respective information for fathers.¹⁶ However, we observe that weak positive effects emerge from years in full-time or part-time in samples without partner. In the double-selected, more homogenous samples with partner, no significance can be established. It makes therefore more sense to only scrutinize the *maternal employment variables* in more detail.

¹⁶ Fathers' mean years in full-time employment are about 8 of 9, while the mean months spent in unemployment are roughly 6 and part-time and OLF experience as well as educational training are even less present. This also likely explains why we find no effects for factual paternal working hours.

Recall that unemployment is defined as the reference group. The category “further education” is generally suffering from low variation which makes the coefficients unstable and therefore the variable is not sensibly interpretable.

One can observe highly significant positive effects for maternal full-time and part-time employment as well as years OLF. This holds true for mother samples without and with partner and also for father samples with partner. The effect size of full-time and part-time employment is typically at least as strong as that of OLF. In mother samples with partner and the more so in father samples with the mother as the partner, effects are less significant and OLF time loses significance in the latter sample. Thus there is clear evidence that maternal labor market participation is positively related to the child’s outcome. It is hereby unclear whether full-time or part-time employment is more beneficial. The effect size differs across samples.

5 | Robustness Checks

This section demonstrates that some of the results are sensitive to the choice of the dependent variable, the gender of the child, to sample restrictions and the specification of core covariates.¹⁷

We begin with comparisons between the two *endogenous variables*, the results are provided in Table 16 and 17 in appendix A5. For overview reasons we focus on presenting noticeable different results for model III only. In comparing the samples for the different endogenous variables, we note that some differences are stable across the samples with and without partner data. The gender effect is stronger or more significant for the GPA, while the influence of living in the new “Länder” is in absolute terms smaller for the GPA than for the expected school leave degree.

Independent of whether the mother is the reference parent or not, the daily amount of maternal housework between the child’s age 7 to 9 is more robustly negatively associated with the expected school leave degree. The same holds true for the maternal employment biography variables in samples without partner data.

Results furthermore differ by the *child’s gender*, as gender-divided samples show (see Table 20 and 21 in appendix A5). The following results are striking: The positive effect of living in the new “Länder” is driven by boys in the sample. Another interesting gender-specific aspect concerns the effect of the soft-factor index variable: It is observed that sons are almost exclusively influenced by the mother’s soft factors while the girls are also, but only slightly, influenced by the father’s soft factors variable.

The negative effect of maternal housework is, as described before, affecting girls much more than boys. We refer to the role model explanation here. Mother’s employment biography (full-time, part-time or OLF with unemployment as reference time) matters more to daughters than to sons in samples without partner data. This applies in parts also to maternal occupational prestige and holds for all samples with the mother being the reference partner irrespective of considered partner data. Note that employment is correlated with labor income, the latter partly exhibiting gendered effects on children’s school outcomes. In mother chaired samples without partner, maternal labor income is negatively associated to daughters’ outcomes but lacks significance for sons. Apparently, the positive *gender* role model does not operate via the earnings channel but via the parent’s time investment decision itself. This particularly holds true for mothers. However, intense labor market involvement of mothers produces contrary effects, the same applies to intense housework. It seems that a moderate attachment of mothers to the market suits their offspring’s outcomes best. Furthermore

¹⁷ In the appendix, only a shortlist of results is presented. Full results of all robustness checks may be provided on request.

some cross-gender effects may be portrayed. Boys are positively affected not only by their mothers' soft factors but also by their labor market success (particularly in mother samples without partner) and maternal prestige (particularly in stable partnerships chaired by the mother). Paternal employment biography lacks significance for boys and girls but this is presumably due to low variation in the data as most fathers are continuously full-time employed.

Sample restrictions in this paper refer to the employment restriction (parent being at least once employed in the time span 7 to 15) and to the stable partnership restriction. The effects of the latter have been well documented above, so robustness checks address the employment restriction solely. It turns out that the restriction is almost exclusively binding for mothers, as almost all fathers or male partners were once employed. Being at least once employed in the considered period is a precondition for measuring occupational prestige. One robustness check compares the results for the third specification under different maternal employment restrictions, see Table 18 and 19 in appendix A5. We only compare results for the mother as reference parent. In the samples without partner data, we find only slight changes, our results seem to be robust. When partner data is included, the results mainly change with respect to the effect size. In particular, the employment biography variables get more influential once the maternal employment restriction is activated.

We further run two calculations with modified *specifications of covariates*, 1) our income variables, 2) occupational prestige, 3) an added tracking recommendation variable and 4) milieu factors included.

- 1) As mentioned in Section 3, we also run a specification that differentiates between *income accrued in the child's age 7 to 9 and 13 to 15*, respectively as a robustness check of our main specification of pooled income information from 7 to 15. The results essentially resemble those of our main specification. This particularly applies to the positive association of net household income and the negative association of public transfers, both findings being mostly reserved to samples with the mother being the reference parent. A noteworthy exception refers to maternal and paternal labor income that are insignificant throughout all estimations, maybe due to an inherent path dependence of labor market returns.
- 2) We also calculated *mean occupational prestige* for available years. Since occupational prestige is usually slow to change, this did not change the results in any substantial way.
- 3) We further checked a specification that includes a *tracking recommendation variable* as an additional regressor (enlarged model). The underlying theoretical consideration is that the recommendation made by school representatives, i.e. teachers, might reflect the child's abilities as an outcome-relevant but yet omitted infor-

mation with the covariates at hand. However, it is well known that the tracking recommendation is no suitable measure for the child's "true" (inherent) ability as it is affected by ability assignments which by themselves are influenced by parental home indicators shown up at school, i.e. parents' social prestige. As the tracking recommendation is subject to many of the demographic and human capital related covariates of our model, incorporating this variable means incorporating endogenous information which is highly significant. It is not surprising that as a result, many of the covariates exhibit a reduced (or even lost) significance in the enlarged model. Given the tracking recommendation, the parameters of remaining covariates have to be interpreted as measuring their outcome effect *after* primary school.

In this context, it is highly intriguing that maternal employment history keeps its significance (in stable partnerships irrespective of child) and even becomes more significant in samples without partner. As employment history is measured during the child's age ranging from 7 to 15, we take this finding as evidence for a notable influence of mothers' employment in teenage years (during secondary school).

- 4) What changes when the *milieu indicators* are brought into the model (see Table 12-15 in appendix A5)? First of all, the number of observations decreases by about 400. In the mother sample without partner, the most notable changes occur in the housework and in the prestige variable. Both become clearly less significant. Although the effect could be caused by the change in the sample, this is unlikely the case for the prestige variable because social status is (indirectly) part of its composition. On the other hand, we cannot find such a pattern for the father samples without partner. The prestige variable of fathers remains as important as before. The soft factors variable also remains highly significant. Except for maternal housework and maternal prestige variables, the changes attributable to the inclusion of milieu factors are rather small. The fundamental messages remain largely unchanged.

We could find no differences regarding the dependent variable between Traditional, Established and German Democratic Republic (GDR)-Nostalgic milieus, so they make up the reference group. Among the remaining milieus, we find stable negative effects for the Consumer-Materialistic milieu. Some more or less stable negative associations were found for the other milieus, too. Thus, the Established, the Traditionalists and GDR-nostalgic milieus are often found to be more positively associated with the outcome.¹⁸

¹⁸ Note that the share of the experimental (6 %) and conservative (3 %) milieu is rather small in our sample.

6 | Conclusion

This paper analyzes the influence of various socio-demographic, human capital and employment variables on the child's school achievement at the age of 15. To this end, we use SOEP data from about 800-1500 households. To account for different family structures, we split the analysis into two specifications: One of which does not consider any partner data and so includes data from all parents, either if they are (temporarily) lone or not. The other one considers partner data under the restriction that the partner, who can be a spouse or life partner, remained the same in the considered period. We examine the robustness of our results, i.e. by varying samples restrictions and by introducing another measure of educational success that attaches importance to other aspects of educational success.

The contribution of this paper lies in the simultaneous analysis and decomposition of various family background factors and their influence on school achievement. Particularly, we want to know whether parents' employment states and biographies have extra effects beyond the well-known effects of parental education, income and demography established in former studies. Our split analyses and robustness checks indicate that some of the results are sensitive to the sample that is selected by 1) the choice of the reference parent, 2) the choice whether partner data are used and in some instances 3) the child's gender.

In addressing the established hypotheses, we find mixed results for the first hypothesis stating diverging effects of income sources induced by different underlying characteristics. We often find positive effects of net household income, but only in some specifications the receipt of public transfers is negatively associated with the outcome. The effect of maternal labor income is ambiguous and that of paternal labor income is insignificant. Maternal labor income is never positively but sometimes negatively associated to the outcome. Fathers' earnings are highly correlated with household income as fathers are the main bread winners of the families which might explain the insignificance of paternal income. The effect of income stemming from assets plus fictive rent was found to be mostly insignificant and therefore dropped. In general the significance of income variables is reduced when a more homogenous sample, i.e. taking account of partner data, is used. The findings therefore do not confirm that role model effects operate via the earnings channel.

As to the second hypothesis stating that parental time in unemployment is negatively associated with the child's school success, we observe positive effects of maternal employment and OLF time compared to time spent in unemployment. We hence confirm the hypothesis for mothers. The paternal variables exhibited low variation in this respect as most fathers in our sample were almost exclusively full-time employed. Apart from some exceptions in the samples without partner, where years in full-time

employment exhibited a positive influence, this led to mostly insignificant results or fathers.

Our third hypothesis refers to the negative time stress effects of many working hours for mothers. In our specification the time frame of the child's age 7 to 9 was chosen. We find weak but significant negative effects in most specifications for maternal factual working hours, whereas paternal working hours were overall insignificant, supporting our hypothesis. Contract working hours and overtime hours were overall insignificant. We observed that the inclusion of maternal labor income in the corresponding time period reduced the significance of maternal working hours.

The fourth hypothesis concerns the impact of maternal (un-)employment on girls, addressing the number of weekly working hours at the child's age 7 to 9, the daily hours of housework at the same time, the employment biography and the occupational prestige of the mother. Maternal housework negatively affects children's outcomes, particularly those of daughters. We link this finding to the role model idea. Taken together with the negative effect of high maternal working hours, we conclude that a moderate attachment of mothers to the market seems to suit their offspring's outcomes best.

Except for this effect, we cannot ascertain effects particular to girls. On the contrary, the maternal employment biography is slightly more beneficially related to the boys' school achievement but has a significant positive influence on girls as well.

Regarding the occupational prestige (hypothesis 5), our findings support its suggested beneficial effect on children's outcomes at school. In more detail, the paternal prestige seems to outweigh the maternal one in partner samples. If we include only the maternal prestige, the variable is highly significant.

The last hypothesis refers to the influence of what we called 'soft factors', a variable composed of parental self-stated interest in politics, the participation in local political initiatives, frequency of exercising and interest in further education. We could find very specific results: paternal soft factors are insignificant in partner samples once maternal soft factors, paternal years of education and paternal income are controlled for. They hold up significance in samples without partner data, however. Separate analyses show that the mother's almost exclusive influence in partner samples is driven more strongly by boys. Girls are also mainly influenced by the mother but their fathers' soft factors exert some influence, too. If such factors relate positively to a child's achievement and it is recognized that most fathers were almost exclusively full-time employed, the findings might be interpreted as 'the more time spent together, the stronger the transmission of aspirations'.

As to the political inferences, what can be learnt from our study? Our findings indicate that parents' employment behavior indeed matters for their children's school per-

formance. It seems that the effects operate through role models rather than generated income. Results for mothers' time use in favor of paid work point to beneficial outcomes for their children in some aspects, particularly for daughters. Hence, while there is no necessity to further stimulate fathers' participation in the labor market, social policy should foster that of mothers. We suggest that beyond flexible work schedules and adequate childcare facilities, the societal promotion of working moms could be an effective tool to reach this goal. However, our results further suggest that employment is not the only beneficial channel. By contrast, extreme time use positions, whether for unpaid or paid work, seem to have adverse effects. Instead, distinct soft factors of parents that indicate aspirations and self-esteem are important. The soft factor channel seems to require that the parent is sufficiently present at home though. This particularly applies to mothers since they still bear the lion's share of care and household tasks in German families. Thus, our results could be interpreted in favor of a balanced work-family workload of each parent and more egalitarian gender roles. While the latter are usually postulated in the context of gender mainstreaming issues, we argue that they could also boost children's educational development.

What has been left for further research? As mentioned in the introduction, one factor that has not been taken account of in this analysis is the school context: more precisely, the existence of full-day schools. They are likely to influence at least some of the presented relations. The propensity of parents to work will be increased as the availability of external care weakens the trade-off between care and work. On the other hand, as shown in our paper the soft factors channel probably operates via joint time of parents and children at home. The overall effect on children's educational outcomes is a priori unclear. With this note we pave the way for our future investigations on this topic.

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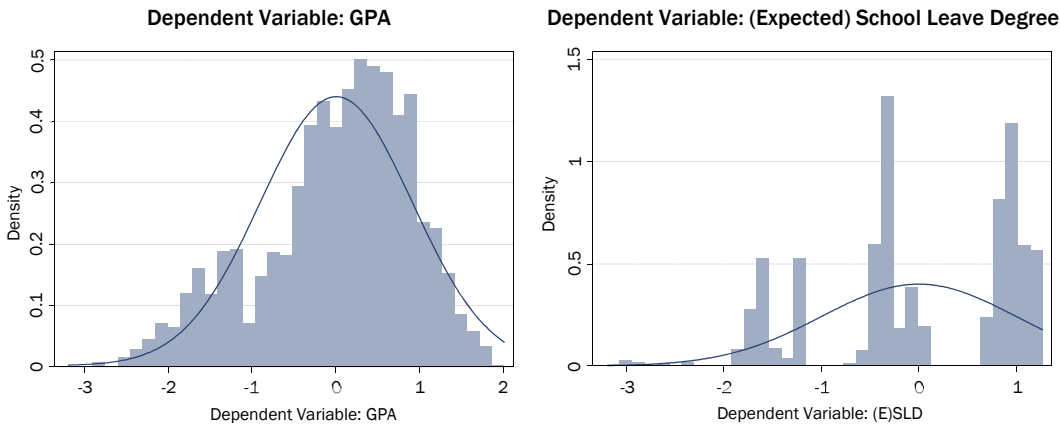
Appendix

A 1 | Endogeneous variables

Table 2
Grade Point Average (GPA) ex-ante standardization

GPA harmonized	GYM	RS	HS
1	1		
2	2	1	
3	3	2	
4	4	3	1
5	5	4	2
6	6	5	3
7		6	4
8			5
9			6

Figure 1
Distribution of the two dependent variables overlaid by a scaled normal density



Note: Bin size chosen according to: $\min\{\sqrt{n}, 10 \cdot \ln(n)/\ln(10)\}$.

A 2 | Detailed description of covariates

Socio-demographic variables

We take account of the partner issue in two ways. First, we conduct two different analyses where in one we consider partner data and in the other not (albeit the partner may be available). The first mentioned sample is restrained to parents with a constant partner during the whole observation period. This sample is therefore a subsample of the second sample which does not consider partner data. Secondly, we will control for the years children have spent with one parent alone, comparing the results to the effect of living together with both parents.

We do not explicitly account for divorces and separations as these variables would reduce the number of observations drastically. Instead we use the child's statement at the age of 15 on how many years it has lived in a certain family environment. We differentiate between 6 environments here: Living together with both parents, with the mother only, with the mother and a partner, with the father only, with the father and a partner and with other people. For some samples these categories suffer from low variation and must therefore be interpreted carefully. As moves put children in a complete new environment, it is possible that initial struggles to cope with the new situation arise which may eventually influence performance in school. We evaluate the number of moves in the last 9 years (time point: at the child's age 15) in this respect. For the agglomeration area, a dummy "rural" and a "living in the new Laender at the age of 15" dummy have been added.¹⁹

For the number of siblings, we decided to use the number of siblings at age 15. There are variables that relate more closely to the parental time budget, e.g. the number of siblings between age 0 and 4, but those can be measured at arbitrary points in the child's school career. Completeness would require the simultaneous inclusion of the variables at all relevant points of time, otherwise imprecise indications are obtained. To avoid such an inflated model, we argue that the number of siblings at age 15, together with the information on birth order, will suffice to explain the variation caused by scarcity of parental resources and additional parental experience in bringing up children. Relatedly, we also include parental age at the child's age of 17.

As pointed out in theoretical part, there are good reasons to include 'softer factors'. We therefore consider proxy-variables indicating aspirations, interests, and behavior. More precisely, we first make use of revealed interest in politics as we expect that it reflects self-efficacy and personal control [Shani 2009]. Secondly, we use parental

¹⁹ Initially, we distinguished between four degrees ranging from large cities to rural areas. Ideally, no systematic differences with regard to grades or proportion of school leave degrees should exist; however, the degree of agglomeration is different across states and so are mean grades and relative shares of types of graduation. Thus, we expected to find effects. However, only rural areas turned out to be different from the other areas.

statements as to how often they take part in local political activities. The social connectedness of the second component can also be related to Coleman's [1990] term of social capital (Shah [1998]). Thirdly, an exercise-oriented indicator is used, which can be related to knowledge on what is important to preserve well-being in the future and the wish and self-confidence to attain it. These variables are standardized and summed up. Fourthly, we regard general interest in further education, as this can be connected to occupational or personal prospering and thus aspirations [Harney et al. 2003]. We construct a dummy variable indicating whether a parent is generally interested (=1) in further education or not (=0). This dummy is added to the standardized former three. We condense the information from the named four sources and construct an index variable. The index is composed of variables measured at the time when the child is 13 to 15 years old. In our view, a high index value indicates a rather open minded, societally active parent with high educational aspirations, self-esteem and self-efficacy.

In an alternative specification, we replace the index variable by the four index components as separate regressors. Three out of four components show a similar pattern as the index variable, results being robust throughout models and samples (the exercise variable slightly loses significance from model II to model III). Only the local political activities' effect turns out to be less significant. We take this as an additional information but stick to our index variable concept to shorten down the variable list.

To check once more for the variable's explanatory power, we conduct robustness checks by including indicator variables for MOSAIC-milieus which are a projection of Sinus-milieus created by Sinus Sociovision GmbH.²⁰ A milieu is determined according to a two-dimensional system consisting of social status and personal basic values. The milieus are, however, subject to societal change and also not necessarily distinct. To make sure which milieus are used, we mark the labels with the respective codes provided in the SOEP: Established (B1), Postmaterials (B12), Modern Performers (C12), Conservatives (A12), Traditionals (A23), Middle Class (B2), GDR-Nostalgic (AB2), Fun-Driven (BC3), Experimentalists (C2) and Consumer-Materialists (B3) [Goebel et al. 2007: 28ff for details]. For a qualitative classification how these milieus relate to a family's educational practice we refer to Bremer & Kleemann-Göhring (2012).

One fundamental difference to the 'soft factors'-variable is that if a milieu effect is assumed, the underlying individuals within their group must be relatively homogeneous in relevant characteristics. The soft factors, however, leave more room for within-group individual heterogeneity.

We also control for direct and indirect migration background of parents. Given the time-use argument above, we also include variables measuring the average daily hours

²⁰ In the SOEP, the exact milieus are not known. Only probabilities for a household to be in a certain milieu are estimated. Then for each household the milieu with the highest probability is chosen as the dominant milieu. We use the latter variable to create a set of dummy variables measured at the child's age 15.

of doing housework. We argue that growing up children need less and less exclusive parental time. Instead, parents' availability in the household to be used on children's request gains importance.

Human capital variables

For the parental educational level we use years of attained education which ranges between 7 and 18 years.

In our final estimations, we use four different income variables measured as averages in the child's age corridor 7 to 15. We use net household income, net public transfers received by the household, net household income from assets (including imputed rent), income stemming from private transfers and individual gross labor earnings. Public transfers contain earnings replacement benefits like unemployment benefit, unemployment assistance, social assistance and housing allowance. Labor earnings comprise wages and salary from all employment including training, primary and secondary jobs, and self-employment, plus income from bonuses, over-time, and profit-sharing. Net household income as an aggregate income controls for further income accruing to the household. Income variables are measured on a monthly base in 1,000 Euros (for example, a household income of 3.8 equals 45,600 €/Year).²¹

Employment biography variables

For the parental employment biography variables, we employ the Artkalen spell data. We divided the data into the categories full-time, part-time, OLF time, further education and unemployment according to Geyer/Steiner [2009]. As the employment biography variables add up to 9, a reference group is needed. We define years spent in unemployment as the reference.²² Individuals with statuses deviating from the ones mentioned above are excluded from the analysis.

The occupational prestige, measured by the Wegener-Scale, is one indicator for the socio-economic status of a person. The scale assigns a prestige value to different kind

²¹ We initially generated three averages over the time spans where the child was between 7 and 9, 10 and 12, 13 and 15, respectively. However, the three household variables proved to be highly correlated in test analyses thus we skipped the two most recent ones and kept the household workload when the child was aged 7 to 9 with the idea that parental availability of the mother at home most likely matters at primary school age paving the streaming decision at age 10. Moreover, we initially constructed a childcare variable that focused on time that is exclusively devoted to children. This variable proved to be insignificant throughout analyses, therefore we skipped it.

²² The data exhibited certain ambiguities, which we removed at two stages. Related entries that added up to inadmissible values were corrected to admissible values. An example: If in a certain year, an individual has two spells, housewife and OLF time, which both last 12 months, this is categorized to a one-year OLF time-spell. Consistency between the five categories was ensured as follows: If sum of the durations of the five spells for a certain year summed up to more than 1, they were multiplied by an individual factor that ensures their sum to be 1. The relative duration of the categories served as a weight in this correction. This corresponds to the assumption that we don't know which spell is true and our best guess is the relative length. The last step is the summation of each of the categories over the period when the child was between 7 and 15, such that the sum of the five variables equals 9.

of jobs, depending on their standing in society. Its scale is adjusted specifically for Germany (Boll [2011]: 71). However, it can only take values if a person is employed. Using the occupational prestige as an explanatory variable implies sample selection, as the never-employed individuals cannot be regarded. Another problem is the potential time-variation of the variable. Measuring it at all relevant times removes all individuals who were at least once not employed and so reduces observations markedly. Since we hypothesize that occupational prestige beyond its associations to income and education additionally transmits latent skills and aspirations as hardly time-varying traits, we chose the maximum value in the period 7-15 as a representative. However, this proxy holds for all but those individuals who were never employed during the observation period. Although this applies only to a small number of observations, we check the selection arising from this specification (see Section 5: robustness checks).

We also include average contract and average factual weekly working hours. Owing to the changing and edged definition of what constitutes full-time, part-time and marginal employment, we decided to use the number of working hours as metrically scaled information on the employment extent. An additional advantage of factual working hours is that also self-employed parents who do not have a formal working contract can be included in this way. If no factual working hours are stated, we impute contract working hours if available. The aforementioned path-dependency of time use does not only apply to unpaid but also to paid work. To narrow down the variable list we choose the time-span 7 to 9 analogous to the housework variable, as parents' trade-off between care and work is considered most crucial during primary school. However, we only find effects emanating from the number of factual working hours but not from contract working hours, so contract working hours were omitted as a separate regressor in the final estimations.²³

Table 3

Descriptive statistics of endogenous variables, by samples

	Original Variable		Mother w/o partner		Father w/o partner		Mother w partner		Father w partner	
	GPA	(E)SLD	GPA	(E)SLD	GPA	(E)SLD	GPA	(E)SLD	GPA	(E)SLD
Obs	3,705	3,934	1,775	1,864	1,518	1,593	1,292	1,347	1,241	1,300
Mean	0.0232684	0.003548	0.0029332	0.0014659	0.0216067	0.023155	0.0465528	0.0519163	0.0457769	0.0463542
Std. Dev.	0.9107312	0.9965938	0.8853337	0.9696419	0.8753483	0.9628292	0.8741308	0.9631552	0.8621428	0.9627634
Min	-3.189115	-3.197582	-3.189115	-3.101652	-3.189115	-3.101652	-3.189115	-3.101652	-2.766153	-3.101652
Max	2.03603	1.27574	1.897062	1.27574	1.858771	1.27574	1.846063	1.27574	1.846063	1.27574

²³ Furthermore, we initially included information about the father's/male partner's factual work hours, too; after controlling for related variables like education and income, all of them turned out to be insignificant though. Thus, we removed fathers' factual working hours from our final specifications.

A 3 | Descriptive statistics of covariates, by samples

Table 4

Descriptive statistics for mother as reference parent without partner data

	mean	sd	min	max	mean	sd	min	max	mean	sd	min	max
(E)SLD	0.014	0.954	-3.015	1.276	0.022	0.95	-3.015	1.276	0.01	0.949	-3.015	1.276
Yrs w sgl. mother	1.106	3.162	0	15	1.099	3.169	0	15	1.099	3.147	0	15
Yrs w sgl. mother & partner	0.692	2.477	0	15	0.679	2.469	0	15	0.681	2.468	0	15
Yrs w sgl. father	0.046	0.549	0	10	0.041	0.526	0	10	0.036	0.473	0	9
Yrs w sgl. father & partner	0.038	0.559	0	13	0.04	0.568	0	13	0.042	0.585	0	13
Yrs w others	0.048	0.589	0	15	0.047	0.592	0	15	0.046	0.589	0	15
Gender	0.498	0.5	0	1	0.495	0.5	0	1	0.493	0.5	0	1
Birth Order	1.644	1.071	0	8	1.646	1.074	0	8	1.649	1.073	0	8
Siblings	1.481	1.17	0	11	1.486	1.176	0	11	1.468	1.161	0	11
East	0.304	0.46	0	1	0.306	0.461	0	1	0.31	0.463	0	1
Rural Area	0.352	0.478	0	1	0.354	0.478	0	1	0.353	0.478	0	1
Moves	0.587	0.84	0	5	0.573	0.832	0	5	0.569	0.826	0	5
Soft Factors	-0.46	2.128	-4.14	11.50	-0.45	2.134	-4.14	11.50	-0.47	2.145	-4.14	11.50
Mother Age	44.202	4.965	33	65	44.258	4.975	33	65	44.257	4.993	33	65
Migration	0.211	0.408	0	1	0.207	0.405	0	1	0.21	0.407	0	1
Housework	3.494	1.635	0	16	3.503	1.632	0	16	3.498	1.602	0	11
Labor Income					1.103	1.152	0	10.553	1.125	1.16	0	10.553
Post Gov Income					3.535	1.397	0.703	12.555	3.521	1.382	0.703	12.555
Public Transfers					0.066	0.139	0	0.978	0.065	0.138	0	0.978
Private Transfers					0.024	0.087	0	0.78	0.025	0.089	0	0.78
Years of Education					11.876	2.487	7	18	11.859	2.482	7	18
Work Hours									17.653	15.624	0	70
Years Fulltime									2.377	3.21	0	9
Years Parttime									3.039	2.905	0	9
Years Fur.Educ									0.095	0.264	0	1.964
Years OLF									2.905	3.004	0	9
Max Prestige									69.382	30.901	30.2	216

Table 5

Descriptive statistics for father as reference parent without partner data

	mean	sd	min	max	mean	sd	min	max	mean	sd	min	max
(E)SLD	-0.078	0.987	-2.972	1.276	-0.069	0.987	-2.972	1.276	-0.079	0.987	-2.972	1.276
Yrs w sgl. mother	0.464	1.967	0	15	0.439	1.922	0	15	0.443	1.947	0	15
Yrs w sgl. mother & partner	0.272	1.662	0	15	0.266	1.651	0	15	0.276	1.682	0	15
Yrs w sgl. father	0.118	0.885	0	11	0.103	0.852	0	11	0.09	0.806	0	11
Yrs w sgl. father & partner	0.051	0.69	0	13	0.054	0.707	0	13	0.056	0.72	0	13
Yrs w others	0.042	0.465	0	9	0.04	0.463	0	9	0.041	0.471	0	9
Birth Order	1.669	1.16	0	9	1.676	1.169	0	9	1.682	1.166	0	9
Siblings	1.577	1.385	0	11	1.575	1.367	0	11	1.571	1.368	0	11
East	0.314	0.464	0	1	0.314	0.465	0	1	0.316	0.465	0	1
Rural Area	0.354	0.479	0	1	0.356	0.479	0	1	0.35	0.477	0	1
Moves	0.496	0.722	0	5	0.487	0.715	0	5	0.485	0.705	0	5
Soft Factors	-0.36	2.143	-4.52	8.428	-0.343	2.128	-4.52	8.428	-0.331	2.142	-4.52	8.428
Father Age	47.036	5.65	32	71	47.096	5.704	32	71	47.115	5.691	32	71
Migration	0.209	0.407	0	1	0.208	0.406	0	1	0.209	0.407	0	1
Labor Income					3.352	1.971	0	17.716	3.365	1.966	0	17.716
Post Gov Income					3.681	1.382	0.932	11.514	3.688	1.391	0.932	11.514
Public Transfers					0.058	0.154	0	1.32	0.054	0.149	0	1.32
Private Transfers					0.005	0.032	0	0.463	0.006	0.033	0	0.463
Years of Education					12.242	2.678	7	18	12.236	2.681	7	18
Years Fulltime									8.292	1.656	0	9
Years Parttime									0.154	0.653	0	7.597
Years OLF									0.085	0.582	0	9
Years Fur.Educ									0.075	0.231	0	2.143
Max Prestige									65.368	30.781	30.1	216

Table 6

Descriptive statistics for father as reference parent without partner data

	mean	sd	min	max	mean	sd	min	max	mean	sd	min	max
(E)SLD	0.054	0.949	-3.015	1.276	0.054	0.949	-3.015	1.276	0.05	0.953	-3.015	1.276
Yrs w sgl. mother	0.081	0.781	0	15	0.068	0.653	0	15	0.043	0.394	0	7
Yrs w sgl. mother & partner	0.308	1.879	0	15	0.312	1.897	0	15	0.271	1.765	0	15
Yrs w sgl. father & partner	0.011	0.385	0	13	0.012	0.391	0	13	0.013	0.418	0	13
Yrs w others	0.039	0.574	0	15	0.036	0.571	0	15	0.02	0.323	0	9
Gender	0.49	0.5	0	1	0.491	0.5	0	1	0.481	0.5	0	1
Birth Order	1.656	1.059	0	8	1.654	1.058	0	8	1.635	1.031	0	7
Siblings	1.482	1.145	0	11	1.484	1.148	0	11	1.44	1.097	0	11
East	0.308	0.462	0	1	0.31	0.463	0	1	0.31	0.463	0	1
Rural Area	0.362	0.481	0	1	0.363	0.481	0	1	0.37	0.483	0	1
Moves	0.43	0.665	0	5	0.43	0.665	0	5	0.41	0.627	0	4
Soft Factors	-0.488	2.076	-4.147	10.068	-0.485	2.079	-4.147	10.068	-0.455	2.106	-4.147	10.068
Partner: Soft Factors	-0.437	2.089	-4.506	7.52	-0.436	2.1	-4.506	7.52	-0.406	2.092	-4.506	7.52
Mother Age	44.36	4.892	33	65	44.356	4.91	33	65	44.34	4.837	33	65
Migration	0.02	0.141	0	1	0.021	0.143	0	1	0.017	0.128	0	1
Housework	3.624	1.65	0.143	16	3.635	1.658	0.143	16	3.644	1.619	0.143	11
Labor Income					1.021	1.074	0	10.553	1.039	1.087	0	10.553
Post Gov Income					3.703	1.368	1.246	12.555	3.73	1.374	1.246	12.555
HHPublic Transfers					0.106	0.244	0	2.237	0.094	0.227	0	2.237
Private Transfers					0.004	0.024	0	0.365	0.003	0.023	0	0.365
Years of Education					11.859	2.446	7	18	11.878	2.421	7	18
Partner: Years of Education					12.075	2.637	7	18	12.084	2.602	7	18
Work Hours									16.382	15.652	0	70
Years Fulltime									2.135	3.121	0	9
Years Parttime									3.152	2.933	0	9
Years OLF									3.121	3.096	0	9
Years Fur.Educ									0.075	0.236	0	1.949
Partner: Years Fulltime									8.468	1.331	0	9
Partner: Years Parttime									0.11	0.519	0	7.333
Partner: Years Fur.Educ									0.043	0.155	0	2.143
Partner: Years OLF									0.045	0.372	0	9
Partner: Max Prestige									63.02	28.099	30.1	191.3
Max Prestige									69.037	30.513	30.2	216

Table 7

Descriptive statistics for father as reference parent with partner data

	mean	sd	min	max	mean	sd	min	max	mean	sd	min	max
(E)SLD	0.069	0.941	-2.972	1.276	0.084	0.932	-2.972	1.276	0.074	0.936	-2.972	1.276
Yrs w sgl. mother	0.083	0.81	0	15	0.084	0.819	0	15	0.067	0.737	0	15
Yrs w sgl. mother & partner	0.209	1.547	0	15	0.214	1.563	0	15	0.164	1.381	0	15
Yrs w sgl. father & partner	0.025	0.518	0	13	0.015	0.417	0	13	0.017	0.444	0	13
Yrs w others	0.046	0.629	0	15	0.043	0.624	0	15	0.04	0.63	0	15
Gender	0.501	0.5	0	1	0.499	0.5	0	1	0.485	0.5	0	1
Birth Order	1.605	1.011	0	6	1.6	1.003	0	6	1.602	0.998	0	6
Siblings	1.385	1.033	0	6	1.386	1.028	0	6	1.373	1.002	0	6
East	0.319	0.466	0	1	0.323	0.468	0	1	0.311	0.463	0	1
Rural Area	0.373	0.484	0	1	0.373	0.484	0	1	0.378	0.485	0	1
Moves	0.421	0.658	0	5	0.423	0.661	0	5	0.402	0.618	0	4
Soft Factors	-0.413	2.097	-4.52	7.379	-0.406	2.097	-4.52	7.379	-0.379	2.101	-4.52	7.379
Partner: Soft Factors	-0.459	2.07	-4.169	9.756	-0.449	2.074	-4.169	9.756	-0.434	2.036	-4.169	9.351
Father Age	46.865	5.399	33	65	46.87	5.404	33	65	46.961	5.286	34	65
Migration	0.191	0.393	0	1	0.188	0.391	0	1	0.192	0.394	0	1
Partner: Housework	3.448	1.594	0	16	3.459	1.585	0	16	3.476	1.55	0	11
Labor Income					3.302	1.927	0	17.018	3.338	1.927	0	17.018
Post Gov Income					3.725	1.359	1.246	11.946	3.754	1.37	1.474	11.946
HHPublic Transfers					0.099	0.23	0	2.237	0.093	0.23	0	2.237
Private Transfers					0.003	0.02	0	0.365	0.003	0.021	0	0.365
Years of Education					12.127	2.646	7	18	12.128	2.644	7	18
Partner:Years of Education					12.011	2.462	7	18	12.026	2.464	7	18
Partner: Work Hours									18.389	15.609	0	70
Years Fulltime									8.31	1.66	0	9
Years Parttime									0.13	0.623	0	8
Years OLF									0.137	0.903	0	9
Years Fur.Educ									0.062	0.208	0	2.143
Partner: Years Fulltime									2.4122	3.272	0	9
Partner: Years Parttime									3.481	2.903	0	9
Partner: Years Fur.Educ									0.0621	0.193	0	1.377
Partner: Years OLF									2.598	2.682	0	9
Partner: Max Prestige									64.460	29.028	30.100	216
Max Prestige									63.461	27.808	30.100	191.303

A 4 | Sample specification

Table 8

Concept of sample specification

Without Partner:	Specification 1	Specification 2
Mother-Sample	Mother not necessarily employed	Mother at least once employed
Father-Sample	Father not necessarily employed	Father at least once employed
With partner:	Specification 3	Specification 4
Mother-Sample	Male partner/husband at least once employed	Mother & male partner/husband both at least once employed
Father-Sample	Female partner/wife at least once employed	Father & female partner/wife both at least once employed

Note: Specifications in bold are the main specifications discussed in Section 4.

A 5 | Main regression results

Table 9

Results for mother as reference parent without partner data

Dep.Var.: ²⁴	Mother Without Partner Data								
	(E)SLD			(E)SLD			(E)SLD		
	Coef.	Std.Err.	P-value	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value
Yrs w sgl. mother	-0.022	0.007	0.002 ³	-0.012	0.008	0.128	-0.009	0.008	0.266
Yrs w sgl. mother & partner	-0.025	0.009	0.006 ³	-0.03	0.01	0.002 ³	-0.031	0.01	0.002 ³
Yrs w sgl. father	-0.036	0.041	0.381	-0.026	0.042	0.533	-0.069	0.048	0.151
Yrs w sgl. father & partner	0.027	0.039	0.486	0.023	0.038	0.547	0.032	0.038	0.391
Yrs w others	-0.033	0.037	0.376	-0.029	0.036	0.431	-0.022	0.038	0.568
Gender	0.254	0.044	0.000 ³	0.25	0.043	0.000 ³	0.267	0.044	0.000 ³
Birth Order	-0.179	0.032	0.000 ³	-0.137	0.032	0.000 ³	-0.133	0.033	0.000 ³
Siblings	0.055	0.028	0.051 ¹	0.037	0.028	0.194	0.043	0.031	0.165
East	0.151	0.052	0.004 ³	0.163	0.058	0.005 ³	0.244	0.068	0.000 ³
Rural Area	-0.131	0.047	0.005 ³	-0.113	0.046	0.014 ²	-0.095	0.047	0.045 ²
Moves	-0.034	0.03	0.255	-0.018	0.03	0.548	-0.018	0.03	0.56
Soft Factors	0.137	0.011	0.000 ³	0.089	0.012	0.000 ³	0.09	0.012	0.000 ³
Mother Age	0.038	0.005	0.000 ³	0.025	0.005	0.000 ³	0.025	0.005	0.000 ³
Migration	-0.076	0.059	0.203	0.024	0.059	0.686	0.07	0.061	0.253
Housework	-0.038	0.015	0.010 ²	-0.029	0.015	0.058 ¹	-0.032	0.017	0.069 ¹
Labor Income				-0.057	0.025	0.020 ²	-0.063	0.035	0.073 ¹
Post Gov Income				0.082	0.02	0.000 ³	0.072	0.021	0.001 ³
Public Transfers				-0.534	0.184	0.004 ³	-0.142	0.262	0.587
Private Transfers				0.568	0.287	0.049 ²	0.443	0.29	0.127
Years of Education				0.082	0.011	0.000 ³	0.067	0.013	0.000 ³
Work Hours							-0.005	0.003	0.086 ¹
Years Fulltime							0.08	0.03	0.008 ³
Years Parttime							0.082	0.027	0.003 ³
Years Fur.Educ							0.118	0.098	0.229
Years OLF							0.065	0.027	0.015 ²
Max Prestige							0.003	0.001	0.004 ³
Constant	-1.288	0.239	0.000 ³	-2.047	0.251	0.000 ³	-2.648	0.358	0.000 ³
N	1,537			1,493			1,403		
A-R2	0.2			0.25			0.27		

Note: Results for mother as reference parent without partner data.¹: 10%, ²: 5%, ³: 1%.

²⁴ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

Table 10

Results for father as reference parent without partner data

Father Without Partner Data									
Dep.Var.: ²⁵	(E)SLD			(E)SLD			(E)SLD		
	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value
Yrs w sgl. mother	-0.018	0.013	0.171	-0.015	0.013	0.248	-0.018	0.014	0.18
Yrs w sgl. mother & partner	-0.013	0.013	0.342	-0.021	0.013	0.104	-0.022	0.014	0.104
Yrs w sgl. father	-0.039	0.029	0.172	-0.033	0.029	0.253	-0.038	0.034	0.254
Yrs w sgl. father & partner	0.015	0.041	0.709	-0.011	0.039	0.784	-0.009	0.039	0.814
Yrs w others	-0.031	0.043	0.471	-0.024	0.042	0.56	-0.018	0.042	0.672
Gender	0.274	0.046	0.000 ³	0.273	0.046	0.000 ³	0.292	0.047	0.000 ³
Birth Order	-0.163	0.031	0.000 ³	-0.133	0.032	0.000 ³	-0.138	0.033	0.000 ³
Siblings	0.027	0.024	0.258	0.023	0.027	0.399	0.02	0.028	0.475
East	0.14	0.054	0.010 ²	0.148	0.059	0.012 ²	0.174	0.061	0.004 ³
Rural Area	-0.138	0.049	0.005 ³	-0.098	0.049	0.044 ²	-0.106	0.05	0.032 ²
Moves	-0.051	0.034	0.138	-0.034	0.034	0.314	-0.05	0.036	0.157
Soft Factors	0.124	0.011	0.000 ³	0.069	0.012	0.000 ³	0.067	0.012	0.000 ³
Father Age	0.025	0.005	0.000 ³	0.015	0.005	0.001 ³	0.015	0.005	0.002 ³
Migration	-0.2	0.06	0.001 ³	-0.097	0.061	0.115	-0.063	0.063	0.317
Labor Income				0.018	0.021	0.403	0.004	0.024	0.853
Post Gov Income				0.054	0.027	0.048 ²	0.041	0.029	0.16
Public Transfers				-0.295	0.165	0.074 ¹	0.232	0.352	0.509
Private Transfers				0.868	0.825	0.293	1.191	0.841	0.157
Years of Education				0.08	0.011	0.000 ³	0.049	0.013	0.000 ³
Years Fulltime							0.077	0.044	0.082 ¹
Years Parttime							0.112	0.055	0.043 ²
Years OLF							0.051	0.053	0.328
Years Fur.Educ							0.01	0.124	0.937
Max Prestige							0.005	0.001	0.000 ³
Constant	-0.879	0.221	0.000 ³	-1.746	0.238	0.000 ³	-2.288	0.467	0.000 ³
N	1,467			1,401			1,341		
A-R2	0.15			0.22			0.23		

Note: Results for father as reference parent without partner data. ¹: 10%, ²: 5%, ³: 1%.

²⁵ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

Table 11

Results for mother as reference parent with partner data

Dep.Var.: ²⁶	Mother With Partner Data								
	(E)SLD			(E)SLD			(E)SLD		
	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value
Yrs w sgl. mother	-0.001	0.033	0.979	0.03	0.04	0.45	0.064	0.075	0.399
Yrs w sgl. mother & partner	-0.045	0.014	0.001 ³	-0.047	0.015	0.002 ³	-0.049	0.017	0.005 ³
Yrs w sgl. father & partner	0.02	0.066	0.761	0.007	0.063	0.916	0.006	0.063	0.929
Yrs w others	-0.058	0.044	0.188	-0.024	0.044	0.589	-0.092	0.085	0.283
Gender	0.268	0.051	0.000 ³	0.276	0.05	0.000 ³	0.292	0.054	0.000 ³
Birth Order	-0.195	0.037	0.000 ³	-0.13	0.037	0.000 ³	-0.128	0.041	0.002 ³
Siblings	0.082	0.034	0.016 ²	0.051	0.035	0.141	0.053	0.04	0.186
East	0.193	0.057	0.001 ³	0.091	0.065	0.16	0.196	0.083	0.019 ²
Rural Area	-0.173	0.053	0.001 ³	-0.122	0.053	0.021 ²	-0.094	0.057	0.099 ¹
Moves	-0.063	0.041	0.122	-0.046	0.04	0.255	-0.038	0.046	0.403
Soft Factors	0.118	0.015	0.000 ³	0.078	0.015	0.000 ³	0.081	0.016	0.000 ³
Partner: Soft Factors	0.051	0.014	0.000 ³	0.02	0.015	0.172	0.013	0.016	0.407
Mother Age	0.033	0.006	0.000 ³	0.018	0.006	0.004 ³	0.016	0.007	0.015 ²
Migration	-0.064	0.184	0.727	-0.025	0.18	0.887	-0.23	0.217	0.291
Housework	-0.047	0.017	0.005 ³	-0.043	0.018	0.015 ²	-0.052	0.021	0.012 ²
Labor Income				-0.019	0.03	0.536	-0.027	0.047	0.561
Post Gov Income				0.052	0.024	0.033 ²	0.026	0.028	0.351
HHPublic Transfers				-0.149	0.118	0.205	0.518	0.256	0.043 ²
Private Transfers				-0.048	1.121	0.966	0.048	1.232	0.969
Years of Education				0.044	0.015	0.002 ³	0.038	0.016	0.020 ²
Partner: Years of Education				0.057	0.013	0.000 ³	0.033	0.016	0.045 ²
Work Hours							-0.007	0.003	0.032 ²
Years Fulltime							0.134	0.034	0.000 ³
Years Parttime							0.118	0.031	0.000 ³
Years OLF							0.104	0.029	0.000 ³
Years Fur.Educ							0.044	0.129	0.736
Partner: Years Fulltime							0.105	0.049	0.034 ²
Partner: Years Parttime							0.065	0.072	0.371
Partner: Years Fur.Educ							-0.258	0.187	0.168
Partner: Years OLF							0.168	0.092	0.067 ¹
Partner: Max Prestige							0.005	0.001	0.000 ³
Max Prestige							0	0.001	0.885
Constant	-1.028	0.275	0.000 ³	-1.852	0.294	0.000 ³	-3.505	0.644	0.000 ³
N	1,142			1,107			968		
A-R2	0.2			0.25			0.28		

Note: Results for mother as reference parent with partner data. ¹: 10%, ²: 5%, ³: 1%.²⁶ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

Table 12

Results for father as reference parent with partner data

Father With Partner Data									
Dep.Var.: ²⁷	(E)SLD			(E)SLD			(E)SLD		
	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value	Coef.	Std.Err.	P-value
Yrs w sgl. mother	-0.025	0.034	0.466	-0.022	0.033	0.499	0.001	0.04	0.979
Yrs w sgl. mother & partner	-0.039	0.018	0.025 ²	-0.038	0.017	0.024 ²	-0.034	0.02	0.094 ¹
Yrs w sgl. father & partner	0.032	0.051	0.53	-0.014	0.061	0.822	-0.014	0.061	0.815
Yrs w others	-0.034	0.042	0.416	-0.01	0.041	0.808	0.001	0.044	0.985
Gender	0.24	0.053	0.000 ³	0.26	0.051	0.000 ³	0.305	0.055	0.000 ³
Birth Order	-0.171	0.04	0.000 ³	-0.124	0.039	0.001 ³	-0.125	0.042	0.003 ³
Siblings	0.052	0.038	0.172	0.035	0.038	0.347	0.032	0.043	0.459
East	0.241	0.063	0.000 ³	0.146	0.068	0.033 ²	0.188	0.087	0.032 ²
Rural Area	-0.179	0.057	0.002 ³	-0.123	0.055	0.025 ²	-0.087	0.059	0.139
Moves	-0.047	0.044	0.284	-0.034	0.042	0.411	-0.024	0.048	0.609
Soft Factors	0.065	0.015	0.000 ³	0.025	0.015	0.095 ¹	0.016	0.016	0.32
Partner: Soft Factors	0.109	0.016	0.000 ³	0.067	0.016	0.000 ³	0.083	0.017	0.000 ³
Father Age	0.026	0.006	0.000 ³	0.018	0.005	0.001 ³	0.017	0.006	0.007 ³
Migration	-0.166	0.075	0.026 ²	-0.029	0.074	0.699	0.023	0.081	0.777
Partner: Housework	-0.029	0.018	0.108	-0.032	0.018	0.075 ¹	-0.044	0.022	0.044 ²
Labor Income				0.035	0.025	0.17	0.024	0.032	0.45
Post Gov Income				-0.01	0.034	0.762	-0.028	0.042	0.517
HHPublic Transfers				-0.209	0.131	0.111	-0.098	0.26	0.706
Private Transfers				0.975	1.332	0.464	1.434	1.43	0.316
Years of Education				0.056	0.013	0.000 ³	0.043	0.016	0.008 ³
Partner: Years of Education				0.062	0.014	0.000 ³	0.067	0.017	0.000 ³
Partner: Work Hours							-0.007	0.003	0.032 ²
Years Fulltime							0.011	0.048	0.825
Years Parttime							-0.001	0.067	0.992
Years OLF							-0.017	0.054	0.755
Years Fur.Educ							-0.138	0.149	0.355
Partner: Years Fulltime							0.063	0.036	0.083 ¹
Partner: Years Parttime							0.055	0.033	0.102
Partner: Years Fur.Educ							-0.154	0.159	0.331
Partner: Years OLF							0.034	0.033	0.3
Max Prestige							0.004	0.001	0.006 ³
Partner: Max Prestige							-0.001	0.001	0.378
Constant	-0.825	0.271	0.002 ³	-2.053	0.298	0.000 ³	-2.372	0.652	0.000 ³
N	1,018			996			876		
A-R2	0.2			0.27			0.28		

Note: Results for father as reference parent with partner data. ¹: 10%, ²: 5%, ³: 1%.²⁷ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

A 6 | Results of robustness checks

Table 13

Results for mother as reference parent without partner data, milieu included

Dep.Var.: ²⁸	(E)SLD			(E)SLD			(E)SLD		
	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value
Yrs w sgl. mother	-0.017	0.008	0.033 ²	-0.003	0.008	0.699	0.001	0.009	0.873
Yrs w sgl. mother & partner	-0.027	0.01	0.007 ³	-0.026	0.01	0.008 ³	-0.028	0.01	0.005 ³
Yrs w sgl. father	-0.025	0.041	0.548	-0.005	0.04	0.892	-0.04	0.045	0.372
Yrs w sgl. father & partner	0.035	0.04	0.387	0.025	0.038	0.523	0.031	0.038	0.423
Yrs w others	-0.022	0.038	0.571	-0.019	0.037	0.599	-0.01	0.038	0.788
Gender	0.236	0.05	0.000 ³	0.244	0.048	0.000 ³	0.271	0.05	0.000 ³
Birth Order	-0.174	0.038	0.000 ³	-0.139	0.037	0.000 ³	-0.134	0.039	0.001 ³
Siblings	0.037	0.034	0.272	0.054	0.037	0.145	0.054	0.041	0.181
East	0.16	0.058	0.006 ³	0.165	0.063	0.009 ³	0.252	0.077	0.001 ³
Rural Area	-0.131	0.054	0.016 ²	-0.093	0.053	0.082 ¹	-0.097	0.055	0.078 ¹
Moves	-0.011	0.033	0.728	0.01	0.032	0.759	0.019	0.033	0.574
Soft Factors	0.133	0.013	0.000 ³	0.087	0.013	0.000 ³	0.086	0.013	0.000 ³
Mother Age	0.038	0.006	0.000 ³	0.024	0.006	0.000 ³	0.024	0.006	0.000 ³
Migration	-0.134	0.069	0.055 ¹	-0.035	0.069	0.612	0.011	0.071	0.878
Housework	-0.027	0.017	0.111	-0.029	0.018	0.104	-0.019	0.02	0.356
...	...	...	...	...	...	...	...	...	...
Post Gov Income 13-15				0.062	0.026	0.016 ²	0.06	0.027	0.024 ²
Public Transfers 13-15				-0.219	0.09	0.015 ²	-0.175	0.094	0.063 ¹
Asset Income 13-15				-0.125	0.052	0.017 ²	-0.122	0.054	0.024 ²
Labor Income 13-15				0.043	0.032	0.18	0.01	0.037	0.791
Post Gov Income 7-9				0.057	0.03	0.055 ¹	0.054	0.031	0.078 ¹
Public Transfers 7-9				-0.119	0.094	0.203	-0.118	0.105	0.265
Asset Income 7-9				0.113	0.069	0.101	0.113	0.072	0.119
Labor Income 7-9				-0.126	0.038	0.001 ³	-0.087	0.044	0.052 ¹
Years of Education				0.082	0.012	0.000 ³	0.074	0.015	0.000 ³
Work Hours							-0.004	0.003	0.188
Years Fulltime							0.069	0.029	0.016 ²
Years Parttime							0.074	0.026	0.004 ³
Years Fur.Educ							0.136	0.106	0.2
Years OLF							0.051	0.025	0.044 ²
Max Prestige							0.001	0.001	0.377
Constant	-1.234	0.283	0.000 ³	-1.937	0.297	0.000 ³	-2.492	0.385	0.000 ³
N	1,187			1,171			1,092		
A-R2	0.2			0.27			0.27		

Note: Results for mother as reference parent without partner data.¹: 10%, ²: 5%, ³: 1%, controlled for milieu variables.

²⁸ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

Table 14

Results for father as reference parent without partner data, milieu included

Dep.Var.: ²⁹	(E)SLD			(E)SLD			(E)SLD		
	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value
Yrs w sgl. mother	-0.01	0.015	0.521	-0.007	0.015	0.665	-0.007	0.016	0.673
Yrs w sgl. mother & partner	-0.019	0.015	0.196	-0.021	0.014	0.141	-0.022	0.015	0.139
Yrs w sgl. father	-0.044	0.033	0.182	-0.052	0.032	0.102	-0.052	0.037	0.159
Yrs w sgl. father & partner	0.029	0.043	0.5	0.001	0.041	0.975	0.004	0.041	0.929
Yrs w others	-0.026	0.044	0.561	-0.022	0.043	0.606	-0.019	0.043	0.661
Gender	0.282	0.052	0.000 ³	0.287	0.051	0.000 ³	0.306	0.052	0.000 ³
Birth Order	-0.141	0.035	0.000 ³	-0.134	0.037	0.000 ³	-0.139	0.038	0.000 ³
Siblings	0.011	0.027	0.69	0.05	0.036	0.171	0.047	0.039	0.223
East	0.11	0.061	0.069 ¹	0.15	0.067	0.026 ²	0.163	0.07	0.020 ²
Rural Area	-0.166	0.056	0.003 ³	-0.119	0.055	0.032 ²	-0.126	0.057	0.026 ²
Moves	-0.051	0.038	0.188	-0.029	0.038	0.457	-0.034	0.04	0.4
Soft Factors	0.114	0.013	0.000 ³	0.062	0.014	0.000 ³	0.061	0.014	0.000 ³
Father Age	0.02	0.005	0.000 ³	0.014	0.005	0.011 ²	0.013	0.006	0.020 ²
Migration	-0.162	0.069	0.019 ²	-0.071	0.069	0.307	-0.04	0.071	0.577
...	...	...	...	...	...	...	...	...	...
Post Gov Income 13-15				0.046	0.037	0.214	0.025	0.039	0.529
Public Transfers 13-15				-0.182	0.095	0.055 ¹	-0.14	0.105	0.183
Asset Income 13-15				-0.106	0.05	0.035 ²	-0.081	0.052	0.117
Labor Income 13-15				0.013	0.029	0.647	0.011	0.03	0.728
Post Gov Income 7-9				0.036	0.038	0.343	0.043	0.039	0.269
Public Transfers 7-9				-0.052	0.099	0.597	-0.026	0.109	0.814
Asset Income 7-9				0.123	0.071	0.084 ¹	0.061	0.075	0.414
Labor Income 7-9				-0.002	0.033	0.96	-0.011	0.035	0.763
Years of Education				0.081	0.012	0.000 ³	0.052	0.015	0.000 ³
Years Fulltime							0.024	0.031	0.435
Years Parttime							0.055	0.05	0.274
Years OLF							0.062	0.078	0.426
Years Fur.Educ							-0.136	0.135	0.315
Max Prestige							0.005	0.001	0.000 ³
Constant	-0.57	0.26	0.028 ²	-1.651	0.287	0.000 ³	-1.718	0.423	0.000 ³
N	1,206			1,168			1,115		
A-R2	0.14			0.21			0.21		

Note: Results for father as reference parent without partner data. ¹: 10%, ²: 5%, ³: 1%, controlled for milieu variables.

²⁹ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

Table 15

Results for mother as reference parent with partner data, milieu included

Dep.Var.: ³⁰	(E)SLD			(E)SLD			(E)SLD		
	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value
Yrs w sgl. mother	0.015	0.048	0.755	0.04	0.047	0.389	0.054	0.111	0.629
Yrs w sgl. mother & partner	-0.051	0.015	0.001 ³	-0.05	0.014	0.000 ³	-0.057	0.018	0.002 ³
Yrs w sgl. father & partner	0.025	0.066	0.708	-0.005	0.063	0.936	-0.002	0.063	0.979
Yrs w others	-0.047	0.045	0.302	-0.02	0.044	0.654	-0.049	0.097	0.61
Gender	0.245	0.059	0.000 ³	0.262	0.056	0.000 ³	0.267	0.062	0.000 ³
Birth Order	-0.186	0.045	0.000 ³	-0.138	0.044	0.002 ³	-0.145	0.049	0.003 ³
Siblings	0.056	0.043	0.196	0.059	0.048	0.221	0.033	0.059	0.577
East	0.225	0.066	0.001 ³	0.141	0.075	0.058 ¹	0.178	0.099	0.072 ¹
Rural Area	-0.159	0.062	0.011 ²	-0.08	0.061	0.193	-0.053	0.067	0.43
Moves	-0.037	0.046	0.427	-0.01	0.046	0.821	0.002	0.053	0.964
Soft Factors	0.123	0.017	0.000 ³	0.087	0.015	0.000 ³	0.083	0.016	0.000 ³
Partner: Soft Factors	0.039	0.017	0.020 ²						
Mother Age	0.033	0.007	0.000 ³	0.021	0.007	0.005 ³	0.02	0.008	0.015 ²
Migration	0.096	0.221	0.665	0.183	0.214	0.394	-0.006	0.26	0.982
Housework	-0.042	0.02	0.036 ²	-0.051	0.021	0.015 ²	-0.041	0.024	0.093 ¹
...	...	...	...	...	...	...	...	...	...
Post Gov Income 13-15				0.027	0.036	0.452	0.011	0.041	0.788
Public Transfers 13-15				-0.131	0.108	0.226	0.002	0.147	0.987
Asset Income 13-15				-0.103	0.057	0.069 ¹	-0.09	0.06	0.131
Labor Income 13-15				0.086	0.042	0.040 ²	0.04	0.052	0.433
Post Gov Income 7-9				0.056	0.039	0.153	0.058	0.046	0.211
Public Transfers 7-9				-0.199	0.12	0.098 ¹	-0.117	0.159	0.462
Asset Income 7-9				0.103	0.075	0.17	0.081	0.082	0.324
Labor Income 7-9				-0.154	0.051	0.003 ³	-0.109	0.064	0.088 ¹
Years of Education				0.054	0.016	0.001 ³	0.048	0.019	0.012 ²
Partner: Years of Education				0.056	0.015	0.000 ³	0.038	0.019	0.046 ²
Work Hours							-0.006	0.004	0.119
Years Fulltime							0.089	0.037	0.017 ²
Years Parttime							0.077	0.033	0.021 ²
Years OLF							0.051	0.032	0.11
Years Fur.Educ							0.041	0.144	0.778
Partner: Years Fulltime							0.001	0.046	0.987
Partner: Years Parttime							-0.081	0.078	0.299
Partner: Years Fur.Educ							-0.338	0.2	0.092 ¹
Partner: Years OLF							0.126	0.139	0.364
Partner: Max Prestige							0.004	0.002	0.007 ³
Max Prestige							0	0.001	0.958
Constant	-0.957	0.336	0.004 ³	-1.963	0.352	0.000 ³	-2.444	0.65	0.000 ³
N	860			844			723		
A-R2	0.2			0.27			0.29		

Note: Results for mother as reference parent with partner data. ¹: 10%, ²: 5%, ³: 1%, controlled for milieu variables.

³⁰ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

Table 16

Results for father as reference parent with partner data, milieu included

Dep.Var.: ³¹	(E)SLD			(E)SLD			(E)SLD		
	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value
Yrs w sgl. mother	-0.035	0.037	0.333	-0.027	0.035	0.435	0.006	0.043	0.897
Yrs w sgl. mother & partner	-0.05	0.019	0.010 ²	-0.044	0.018	0.017 ²	-0.049	0.023	0.036 ²
Yrs w sgl. father & partner	0.044	0.053	0.397	0.009	0.05	0.857	-0.014	0.063	0.826
Yrs w others	-0.026	0.043	0.552	-0.005	0.042	0.911	0	0.045	0.995
Gender	0.238	0.059	0.000 ³	0.248	0.057	0.000 ³	0.31	0.062	0.000 ³
Birth Order	-0.133	0.044	0.003 ³	-0.102	0.043	0.018 ²	-0.125	0.048	0.010 ²
Siblings	0.017	0.042	0.686	0.029	0.047	0.54	0.059	0.058	0.311
East	0.194	0.069	0.005 ³	0.121	0.077	0.117	0.181	0.102	0.075 ¹
Rural Area	-0.191	0.063	0.003 ³	-0.117	0.062	0.058 ¹	-0.081	0.067	0.229
Moves	-0.019	0.048	0.686	-0.008	0.046	0.865	0.039	0.054	0.466
Soft Factors	0.046	0.017	0.008 ³						
Partner: Soft Factors	0.117	0.017	0.000 ³	0.082	0.016	0.000 ³	0.094	0.017	0.000 ³
Father Age	0.022	0.006	0.000 ³	0.016	0.006	0.007 ³	0.018	0.007	0.011 ²
Migration	-0.179	0.083	0.032 ²	-0.049	0.083	0.556	0.002	0.092	0.983
Partner: Housework	-0.025	0.02	0.205	-0.033	0.02	0.097 ¹	-0.039	0.025	0.114
...	...	...	...	...	...	...	...	...	...
Post Gov Income 13-15				0.03	0.048	0.537	-0.016	0.057	0.771
Public Transfers 13-15				-0.092	0.111	0.407	0.008	0.145	0.954
Asset Income 13-15				-0.112	0.071	0.114	-0.046	0.078	0.55
Labor Income 13-15				0.006	0.039	0.874	0.012	0.045	0.794
Post Gov Income 7-9				-0.021	0.05	0.674	-0.009	0.057	0.873
Public Transfers 7-9				-0.07	0.121	0.562	-0.199	0.172	0.248
Asset Income 7-9				0.169	0.076	0.027 ²	0.132	0.083	0.114
Labor Income 7-9				0.043	0.043	0.327	0.033	0.05	0.511
Years of Education				0.055	0.015	0.000 ³	0.046	0.019	0.013 ²
Partner: Years of Education				0.066	0.016	0.000 ³	0.061	0.019	0.002 ³
Partner: Work Hours							-0.007	0.004	0.045 ²
Years Fulltime							0.006	0.046	0.891
Years Parttime							-0.027	0.068	0.698
Years OLF							0.135	0.118	0.251
Years Fur.Educ							-0.211	0.167	0.205
Partner: Years Fulltime							0.077	0.037	0.040 ²
Partner: Years Parttime							0.067	0.034	0.054 ¹
Partner: Years Fur.Educ							-0.126	0.176	0.475
Partner: Years OLF							0.035	0.033	0.3
Max Prestige							0.003	0.002	0.058 ¹
Partner: Max Prestige							0	0.001	0.778
Constant	-0.583	0.306	0.057 ¹	-1.994	0.343	0.000 ³	-2.412	0.657	0.000 ³
N	850			837			712		
A-R2	0.2			0.27			0.28		

Note: Results for father as reference parent with partner data. ¹: 10%, ²: 5%, ³: 1%, controlled for milieu variables.

³¹ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

Table 17

Comparison of regression results between endogenous variables, main samples without partner data

Dep.Var.: ³²	Mother without partner data						Father without partner data					
	(E)SLD			GPA			(E)SLD			GPA		
	Coef.	Std Err.	P-value	Coef.	Std Err.	P-value	Coef.	Std Err.	P-value	Coef.	Std Err.	P-value
Yrs w sgl. mother	-0.009	0.008	0.266	-0.007	0.008	0.395	-0.018	0.014	0.18	-0.021	0.013	0.109
Yrs w sgl. mother & partner	-0.031	0.01	0.002 ³	-0.04	0.009	0.000 ³	-0.022	0.014	0.104	-0.024	0.013	0.066 ¹
Yrs w sgl. father	-0.069	0.048	0.151	-0.095	0.045	0.037 ²	-0.038	0.034	0.254	-0.021	0.034	0.537
Yrs w sgl. father & partner	0.032	0.038	0.391	0.054	0.035	0.123	-0.009	0.039	0.814	0.052	0.037	0.159
Yrs w others	-0.022	0.038	0.568	-0.041	0.038	0.288	-0.018	0.042	0.672	-0.051	0.043	0.232
Gender	0.267	0.044	0.000 ³	0.356	0.042	0.000 ³	0.292	0.047	0.000 ³	0.39	0.044	0.000 ³
Birth Order	-0.133	0.033	0.000 ³	-0.108	0.032	0.001 ³	-0.138	0.033	0.000 ³	-0.128	0.031	0.000 ³
Siblings	0.043	0.031	0.165	0.052	0.029	0.081 ¹	0.02	0.028	0.475	0.056	0.027	0.036 ²
East	0.244	0.068	0.000 ³	0.175	0.065	0.007 ³	0.174	0.061	0.004 ³	0.112	0.057	0.050 ²
Rural Area	-0.095	0.047	0.045 ²	-0.046	0.045	0.308	-0.106	0.05	0.032 ²	-0.05	0.047	0.283
Moves	-0.018	0.03	0.56	-0.001	0.029	0.975	-0.05	0.036	0.157	-0.058	0.033	0.084 ¹
Soft Factors	0.09	0.012	0.000 ³	0.081	0.012	0.000 ³	0.067	0.012	0.000 ³	0.055	0.012	0.000 ³
Mother Age	0.025	0.005	0.000 ³	0.02	0.005	0.000 ³	0.015	0.005	0.002 ³	0.015	0.005	0.001 ³
Migration	0.07	0.061	0.253	0.014	0.058	0.817	-0.063	0.063	0.317	-0.115	0.059	0.052 ¹
Housework	-0.032	0.017	0.069 ¹	-0.022	0.017	0.19						
Labor Income	-0.063	0.035	0.073 ¹	-0.061	0.033	0.066 ¹	0.004	0.024	0.853	0.005	0.022	0.832
Post Gov Income	0.072	0.021	0.001 ³	0.064	0.02	0.001 ³	0.041	0.029	0.16	0.019	0.027	0.479
Public Transfers	-0.142	0.262	0.587	-0.369	0.25	0.14	0.232	0.352	0.509	0.136	0.338	0.687
Private Transfers	0.443	0.29	0.127	0.493	0.274	0.072 ¹	1.191	0.841	0.157	0.993	0.774	0.2
Years of Education	0.067	0.013	0.000 ³	0.054	0.012	0.000 ³	0.049	0.013	0.000 ³	0.046	0.012	0.000 ³
Work Hours	-0.005	0.003	0.086 ¹	-0.005	0.003	0.068 ¹						
Years Fulltime	0.08	0.03	0.008 ³	0.043	0.029	0.143	0.077	0.044	0.082 ¹	0.047	0.043	0.273
Years Parttime	0.082	0.027	0.003 ³	0.038	0.027	0.152	0.112	0.055	0.043 ²	0.083	0.053	0.12
Years Fur.Educ	0.118	0.098	0.229	0.083	0.095	0.382	0.051	0.053	0.328	0.005	0.05	0.917
Years OLF	0.065	0.027	0.015 ²	0.021	0.026	0.423	0.01	0.124	0.937	-0.046	0.118	0.698
Max Prestige	0.003	0.001	0.004 ³	0.002	0.001	0.024 ²	0.005	0.001	0.000 ³	0.004	0.001	0.001 ³
Constant	-2.648	0.358	0.000 ³	-1.967	0.345	0.000 ³	-2.288	0.467	0.000 ³	-1.956	0.447	0.000 ³
N	1,403			1,344			1,341			1,284		
A-R2	0.27			0.24			0.23			0.21		

Note: Comparison between endogenous variables for main sample specification, i.e. with employment restriction. Analyses without partner data.

¹: 10%, ²: 5%, ³: 1%.

³² (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

Table 18

Comparison of regression results between endogenous variables, main samples with partner data

Dep.Var.: ³³	Mother With Partner Data						Father With Partner Data					
	(E)SLD			GPA			(E)SLD			GPA		
	Coef.	Std Err.	P-value	Coef.	Std Err.	P-value	Coef.	Std Err.	P-value	Coef.	StdErr	P-value
Yrs w sgl. mother	0.064	0.075	0.399	0.054	0.072	0.448	0.001	0.04	0.979	0.005	0.038	0.897
Yrs w sgl. mother & partner	-0.049	0.017	0.005 ³	-0.054	0.017	0.002 ³	-0.034	0.02	0.094 ¹	-0.038	0.021	0.063 ¹
Yrs w sgl. father & partner	0.006	0.063	0.929	0.069	0.059	0.245	-0.014	0.061	0.815	0.047	0.058	0.412
Yrs w others	-0.092	0.085	0.283	-0.125	0.179	0.486	0.001	0.044	0.985	-0.034	0.047	0.469
Gender	0.292	0.054	0.000 ³	0.372	0.051	0.000 ³	0.305	0.055	0.000 ³	0.413	0.053	0.000 ³
Birth Order	-0.128	0.041	0.002 ³	-0.116	0.039	0.003 ³	-0.125	0.042	0.003 ³	-0.118	0.041	0.004 ³
Siblings	0.053	0.04	0.186	0.072	0.038	0.055 ¹	0.032	0.043	0.459	0.078	0.042	0.065 ¹
East	0.196	0.083	0.019 ²	0.112	0.08	0.16	0.188	0.087	0.032 ²	0.108	0.085	0.202
Rural Area	-0.094	0.057	0.099 ¹	-0.022	0.054	0.681	-0.087	0.059	0.139	-0.062	0.057	0.276
Moves	-0.038	0.046	0.403	-0.039	0.044	0.374	-0.024	0.048	0.609	-0.036	0.046	0.44
Soft Factors	0.081	0.016	0.000 ³	0.076	0.016	0.000 ³	0.016	0.016	0.32	0.022	0.016	0.173
Partner: Soft Factors	0.013	0.016	0.407	0.016	0.016	0.291	0.083	0.017	0.000 ³	0.072	0.017	0.000 ³
Mother/Father Age	0.016	0.007	0.015 ²	0.014	0.006	0.026 ²	0.017	0.006	0.007 ³	0.011	0.006	0.060 ¹
Migration	-0.23	0.217	0.291	-0.132	0.203	0.516	0.023	0.081	0.777	0.013	0.078	0.866
Housework/ Partner: Housework	-0.052	0.021	0.012 ²	-0.036	0.02	0.073 ¹	-0.044	0.022	0.044 ²	-0.03	0.021	0.15
Labor Income	-0.027	0.047	0.561	-0.026	0.044	0.55	0.024	0.032	0.45	0.046	0.031	0.134
Post Gov Income	0.026	0.028	0.351	-0.002	0.026	0.944	-0.028	0.042	0.517	-0.067	0.041	0.097 ¹
HHPublic Transfers	0.518	0.256	0.043 ²	0.339	0.244	0.165	-0.098	0.26	0.706	-0.21	0.25	0.401
Private Transfers	0.048	1.232	0.969	0.393	1.161	0.735	1.434	1.43	0.316	1.382	1.355	0.308
Years of Education	0.038	0.016	0.020 ²	0.024	0.016	0.122	0.043	0.016	0.008 ³	0.029	0.016	0.061 ¹
Partner: Years of Education	0.033	0.016	0.045 ²	0.03	0.015	0.053 ¹	0.067	0.017	0.000 ³	0.044	0.016	0.008 ³
Work Hours/ Partner: Work Hours	-0.007	0.003	0.032 ²	-0.006	0.003	0.042 ²	-0.007	0.003	0.032 ²	-0.006	0.003	0.044 ²
Years Fulltime	0.134	0.034	0.000 ³	0.098	0.033	0.003 ³	0.011	0.048	0.825	0.007	0.046	0.879
Years Parttime	0.118	0.031	0.000 ³	0.073	0.03	0.014 ²	-0.001	0.067	0.992	-0.022	0.065	0.734
Years OLF	0.104	0.029	0.000 ³	0.062	0.028	0.027 ²	-0.017	0.054	0.755	-0.027	0.052	0.597
Years Fur.Educ	0.044	0.129	0.736	-0.018	0.124	0.882	-0.138	0.149	0.355	-0.134	0.144	0.354
Partner: Years Fulltime	0.105	0.049	0.034 ²	0.084	0.047	0.073 ¹	0.063	0.036	0.083 ¹	0.073	0.035	0.040 ²
Partner: Years Parttime	0.065	0.072	0.371	0.035	0.07	0.618	0.055	0.033	0.102	0.055	0.033	0.097 ¹
Partner: Years Fur.Educ	-0.258	0.187	0.168	-0.335	0.177	0.060 ¹	-0.154	0.159	0.331	-0.104	0.152	0.496
Partner: Years OLF	0.168	0.092	0.067 ¹	0.15	0.086	0.083 ¹	0.034	0.033	0.3	0.038	0.032	0.242
Partner: Max Prestige	0.005	0.001	0.000 ³	0.005	0.001	0.000 ³	-0.001	0.001	0.378	0	0.001	0.72
Max Prestige	0	0.001	0.885	0	0.001	0.685	0.004	0.001	0.006 ³	0.004	0.001	0.002 ³
Constant	-3.505	0.644	0.000 ³	-2.759	0.618	0.000 ³	-2.372	0.652	0.000 ³	-1.895	0.631	0.003 ³
N	968			932			876			838		
A-R2	0.28			0.25			0.28			0.27		

Note: Comparison between endogenous variables for main sample specification, i.e. with employment restriction. Analyses with partner data.

1: 10%, 2: 5%, 3: 1%.

³³ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

Table 19

Comparison of regression results between different sample restrictions, mother samples without partner data

Restrictions: Dep.Var.: ³⁴	Mother Without Partner Data								
	None			Maternal Employment			Implicit by MPS		
	(E)SLD			E)SLD			E)SLD		
	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value
Yrs w sgl. mother	-0.008	0.008	0.304	-0.009	0.008	0.291	-0.009	0.008	0.266
Yrs w sgl. mother & partner	-0.029	0.01	0.003 ³	-0.031	0.01	0.002 ³	-0.031	0.01	0.002 ³
Yrs w sgl. father	-0.074	0.048	0.125	-0.074	0.048	0.127	-0.069	0.048	0.151
Yrs w sgl. father & partner	0.036	0.037	0.331	0.028	0.038	0.452	0.032	0.038	0.391
Yrs w others	-0.005	0.036	0.886	-0.019	0.038	0.618	-0.022	0.038	0.568
Gender	0.275	0.043	0.000 ³	0.271	0.044	0.000 ³	0.267	0.044	0.000 ³
Birth Order	-0.124	0.032	0.000 ³	-0.136	0.033	0.000 ³	-0.133	0.033	0.000 ³
Siblings	0.039	0.029	0.169	0.042	0.031	0.167	0.043	0.031	0.165
East	0.235	0.066	0.000 ³	0.254	0.068	0.000 ³	0.244	0.068	0.000 ³
Rural Area	-0.091	0.046	0.049 ²	-0.098	0.047	0.039 ²	-0.095	0.047	0.045 ²
Moves	-0.032	0.029	0.276	-0.016	0.03	0.596	-0.018	0.03	0.56
Soft Factors	0.094	0.012	0.000 ³	0.09	0.012	0.000 ³	0.09	0.012	0.000 ³
Mother Age	0.024	0.005	0.000 ³	0.026	0.005	0.000 ³	0.025	0.005	0.000 ³
Migration	0.091	0.058	0.12	0.063	0.061	0.306	0.07	0.061	0.253
Housework	-0.033	0.017	0.049 ²	-0.034	0.017	0.054 ¹	-0.032	0.017	0.069 ¹
Labor Income	-0.049	0.034	0.154	-0.044	0.035	0.203	-0.063	0.035	0.073 ¹
Post Gov Income	0.079	0.019	0.000 ³	0.084	0.021	0.000 ³	0.072	0.021	0.001 ³
Public Transfers	-0.218	0.211	0.301	-0.171	0.262	0.514	-0.142	0.262	0.587
Private Transfers	0.388	0.276	0.159	0.487	0.29	0.093 ¹	0.443	0.29	0.127
Years of Education	0.084	0.011	0.000 ³	0.081	0.012	0.000 ³	0.067	0.013	0.000 ³
Work Hours	-0.005	0.003	0.086 ¹	-0.005	0.003	0.065 ¹	-0.005	0.003	0.086 ¹
Years Fulltime	0.078	0.027	0.003 ³	0.076	0.03	0.011 ²	0.08	0.03	0.008 ³
Years Parttime	0.081	0.024	0.001 ³	0.08	0.028	0.004 ³	0.082	0.027	0.003 ³
Years Fur.Educ	0.133	0.095	0.165	0.134	0.098	0.171	0.118	0.098	0.229
Years OLF	0.066	0.023	0.004 ³	0.065	0.027	0.014 ²	0.065	0.027	0.015 ²
Max Prestige							0.003	0.001	0.004 ³
Constant	-2.656	0.329	0.000 ³	-2.7	0.358	0.000 ³	-2.648	0.358	0.000 ³
N	1,500			1,403			1,403		
A-R2	0.27			0.26			0.27		

Note: Comparison between different restrictions. Data without partner, reference parent: Mother. ¹: 10%, ²: 5%, ³: 1%.

³⁴ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

Table 20

Comparison of regression results between different sample restrictions, mother samples with partner data

Restrictions: Dep.Var.: ³⁵	Mother With Partner Data								
	None.			Only Maternal. Emp.			Implicit by MPS		
	(E)SLD			E)SLD			E)SLD		
	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value
Yrs w sgl. mother	0.055	0.076	0.469	0.06	0.076	0.431	0.061	0.076	0.418
Yrs w sgl. mother & partner	-0.052	0.017	0.003 ³	-0.05	0.018	0.004 ³	-0.051	0.018	0.004 ³
Yrs w sgl. father & partner	0.002	0.063	0.977	0.001	0.063	0.991	0.001	0.063	0.983
Yrs w others	-0.096	0.085	0.263	-0.092	0.086	0.281	-0.094	0.086	0.271
Gender	0.29	0.051	0.000 ³	0.284	0.053	0.000 ³	0.281	0.053	0.000 ³
Birth Order	-0.111	0.039	0.004 ³	-0.112	0.04	0.006 ³	-0.112	0.04	0.006 ³
Siblings	0.041	0.036	0.251	0.039	0.04	0.32	0.04	0.04	0.312
East	0.149	0.08	0.064 ¹	0.174	0.083	0.036 ²	0.166	0.083	0.046 ²
Rural Area	-0.093	0.055	0.091 ¹	-0.108	0.057	0.057 ¹	-0.106	0.057	0.061 ¹
Moves	-0.037	0.044	0.409	-0.033	0.046	0.464	-0.031	0.046	0.495
Soft Factors	0.084	0.016	0.000 ³	0.082	0.016	0.000 ³	0.082	0.016	0.000 ³
Partner: Soft Factors	0.017	0.016	0.28	0.017	0.016	0.303	0.016	0.016	0.316
Mother Age	0.016	0.006	0.012 ²	0.016	0.007	0.015 ²	0.016	0.007	0.015 ²
Migration	-0.192	0.208	0.358	-0.256	0.218	0.24	-0.252	0.218	0.248
Housework	-0.05	0.02	0.012 ²	-0.049	0.021	0.017 ²	-0.048	0.021	0.019 ²
Labor Income	-0.016	0.044	0.708	-0.017	0.045	0.705	-0.027	0.046	0.553
Post Gov Income	0.044	0.024	0.070 ¹	0.051	0.026	0.051 ¹	0.047	0.027	0.082 ¹
HHPublic Transfers	0.042	0.223	0.851	0.349	0.24	0.147	0.352	0.24	0.143
Private Transfers	0.437	0.957	0.648	-0.026	1.236	0.983	0.007	1.237	0.996
Years of Education	0.045	0.015	0.003 ³	0.044	0.016	0.006 ³	0.04	0.016	0.015 ²
Partner: Years of Education	0.061	0.014	0.000 ³	0.06	0.014	0.000 ³	0.057	0.014	0.000 ³
Work Hours	-0.006	0.003	0.059 ¹	-0.006	0.003	0.051 ¹	-0.006	0.003	0.060 ¹
Years Fulltime	0.085	0.032	0.007 ³	0.117	0.034	0.001 ³	0.117	0.034	0.001 ³
Years Parttime	0.075	0.028	0.007 ³	0.107	0.03	0.000 ³	0.106	0.03	0.000 ³
Years OLF	0.067	0.026	0.010 ²	0.096	0.029	0.001 ³	0.094	0.029	0.001 ³
Years Fur.Educ	0.036	0.126	0.774	0.066	0.13	0.61	0.057	0.13	0.659
Partner: Years Fulltime	0.028	0.04	0.491	0.075	0.043	0.079 ¹	0.076	0.043	0.074 ¹
Partner: Years Parttime	0.026	0.065	0.695	0.075	0.067	0.263	0.075	0.067	0.263
Partner: Years Fur.Educ	-0.253	0.178	0.156	-0.241	0.185	0.193	-0.245	0.185	0.186
Partner: Years OLF	-0.021	0.05	0.668	0.021	0.052	0.684	0.025	0.052	0.629
Partner: Max Prestige									
Max Prestige							0.001	0.001	0.297
Constant	-2.625	0.548	0.000 ³	-3.327	0.59	0.000 ³	-3.301	0.59	0.000 ³
N	1,052			978			978		
A-R2	0.27			0.27			0.27		

Note: Comparison between different restrictions. With partner data, reference parent: Mother. ¹: 10%, ²: 5%, ³: 1%.

³⁵ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

Table 21

Comparison of regression results by the child's gender, samples without partner data

Dep.Var.: ³⁶	Mother Sons			Mother Daughters			Father Sons			Father Daughters		
	(E)SLD			(E)SLD			(E)SLD			(E)SLD		
	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value	Coef.	Std. Err.	P-value
Yrs w sgl. mother	0.002	0.011	0.874	-0.02	0.012	0.107	-0.032	0.019	0.086 ¹	0.005	0.02	0.816
Yrs w sgl. mother & partner	-0.019	0.013	0.129	-0.045	0.016	0.005 ³	-0.02	0.021	0.338	-0.019	0.018	0.289
Yrs w sgl. father	-0.082	0.064	0.196	-0.027	0.078	0.727	-0.024	0.042	0.572	-0.067	0.059	0.255
Yrs w sgl. father & partner	0.073	0.077	0.346	0.012	0.046	0.786	-0.021	0.048	0.654	0.027	0.076	0.727
Yrs w others	-0.01	0.045	0.831	-0.044	0.07	0.525	-0.073	0.073	0.32	0.03	0.051	0.562
Birth Order	-0.127	0.046	0.005 ³	-0.135	0.05	0.007 ³	-0.146	0.047	0.002 ³	-0.128	0.047	0.006 ³
Siblings	0.032	0.043	0.462	0.044	0.045	0.33	-0.031	0.039	0.425	0.087	0.043	0.044 ²
East	0.146	0.099	0.143	0.306	0.095	0.001 ³	0.249	0.088	0.005 ³	0.073	0.085	0.39
Rural Area	-0.045	0.065	0.486	-0.161	0.071	0.024 ²	-0.105	0.074	0.157	-0.098	0.067	0.143
Moves	-0.009	0.041	0.83	-0.041	0.045	0.366	-0.014	0.053	0.791	-0.072	0.048	0.134
Soft Factors	0.097	0.017	0.000 ³	0.088	0.017	0.000 ³	0.052	0.018	0.004 ³	0.079	0.017	0.000 ³
Mother/Father Age	0.025	0.007	0.001 ³	0.025	0.008	0.003 ³	0.018	0.007	0.015 ²	0.01	0.007	0.121
Migration	0.125	0.083	0.133	0.036	0.092	0.695	-0.149	0.094	0.113	-0.017	0.084	0.837
Housework	-0.039	0.024	0.11	-0.026	0.025	0.294						
Labor Income	-0.107	0.05	0.035 ²	-0.027	0.05	0.587	0.025	0.034	0.457	-0.013	0.033	0.687
Post Gov Income	0.071	0.028	0.010 ²	0.069	0.033	0.036 ²	0.04	0.043	0.357	0.038	0.04	0.344
Public Transfers	-0.303	0.346	0.381	0.132	0.401	0.743	0.935	0.495	0.059 ¹	-0.513	0.512	0.317
Private Transfers	0.318	0.341	0.35	0.569	0.547	0.299	2.984	1.083	0.006 ³	-2.017	1.398	0.149
Years of Education	0.079	0.018	0.000 ³	0.061	0.018	0.001 ³	0.042	0.019	0.031 ²	0.058	0.017	0.001 ³
Work Hours	-0.005	0.004	0.132	-0.003	0.004	0.423						
Years Fulltime	0.072	0.04	0.069 ¹	0.097	0.046	0.035 ²	0.124	0.062	0.046 ²	0.024	0.064	0.706
Years Parttime	0.057	0.036	0.117	0.116	0.043	0.006 ³	0.19	0.081	0.020 ²	0.032	0.078	0.679
Years Fur.Educ	0.154	0.124	0.215	0.073	0.16	0.65	0.041	0.185	0.826	-0.029	0.17	0.863
Years OLF	0.048	0.035	0.177	0.091	0.041	0.027 ²	0.109	0.086	0.205	-0.002	0.071	0.974
Max Prestige	0.002	0.001	0.088 ¹	0.003	0.001	0.038 ²	0.005	0.002	0.004 ³	0.005	0.002	0.002 ³
Constant	-2.263	0.493	0.000 ³	-2.842	0.531	0.000 ³	-2.773	0.657	0.000 ³	-1.402	0.677	0.039 ²
N	691			712			680			661		
A-R2	0.26			0.25			0.22			0.22		

Note: Results split in gender of child. Analysis without partner data for both reference parents, employment restriction implicitly fulfilled by MPS-variable. ¹: 10%, ²: 5%, ³: 1%.

³⁶ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average

Table 22

Comparison of regression results by the child's gender, samples with partner data

Dep.Var.: ³⁷	Mother Sons			Mother Daughters			Father Sons			Father Daughters		
	(E)SLD			(E)SLD			(E)SLD			(E)SLD		
	Coef.	Std Err.	P-value	Coef.	Std Err.	P-value	Coef.	Std Err.	P-value	Coef.	Std Err.	P-value
Yrs w sgl. mother	0.063	0.091	0.491	0.093	0.156	0.551	-0.034	0.062	0.586	0.05	0.053	0.352
Yrs w sgl. mother & partner	-0.091	0.028	0.001 ³	-0.026	0.026	0.303	-0.064	0.038	0.091 ¹	-0.02	0.024	0.409
Yrs w sgl. father & partner	0.007	0.068	0.922	0	.	.	-0.009	0.066	0.888	0	.	.
Yrs w others	-0.084	0.093	0.366	0.719	0.775	0.354	-0.042	0.097	0.666	0.028	0.049	0.564
Birth Order	-0.107	0.06	0.073 ¹	-0.132	0.056	0.020 ²	-0.15	0.062	0.016 ²	-0.11	0.06	0.065 ¹
Siblings	-0.015	0.055	0.791	0.109	0.058	0.060 ¹	-0.01	0.064	0.875	0.099	0.062	0.11
East	0.289	0.12	0.016 ²	0.13	0.123	0.292	0.299	0.126	0.018 ²	0.007	0.126	0.955
Rural Area	-0.124	0.086	0.15	-0.047	0.078	0.545	-0.102	0.089	0.249	-0.078	0.081	0.34
Moves	-0.072	0.07	0.305	-0.029	0.061	0.629	-0.05	0.074	0.501	-0.013	0.063	0.835
Soft Factors	0.09	0.024	0.000 ³	0.075	0.024	0.002 ³	0.007	0.024	0.774	0.027	0.024	0.249
Partner: Soft Factors	0.001	0.023	0.955	0.042	0.024	0.081 ¹	0.076	0.025	0.002 ³	0.098	0.026	0.000 ³
Mother/Father Age	0.008	0.01	0.446	0.022	0.009	0.015 ²	0.017	0.009	0.076 ¹	0.014	0.008	0.092 ¹
Migration	0.1	0.117	0.391	0.05	0.106	0.639	0.074	0.125	0.557	-0.064	0.108	0.556
Housework/ Partner: Housework	-0.035	0.03	0.245	-0.073	0.029	0.012 ²	-0.039	0.032	0.211	-0.06	0.031	0.058 ¹
Labor Income	-0.03	0.067	0.659	-0.04	0.067	0.545	0.05	0.051	0.324	0.008	0.042	0.85
Post Gov Income	0.035	0.045	0.435	0.011	0.034	0.741	-0.065	0.065	0.321	-0.01	0.057	0.864
HHPublic Transfers	0.677	0.376	0.072 ¹	0.294	0.365	0.42	0.077	0.39	0.844	-0.338	0.366	0.356
Private Transfers	1.291	1.479	0.383	-2.231	2.877	0.439	2.572	1.786	0.151	-0.161	2.795	0.954
Years of Education	0.035	0.023	0.126	0.058	0.024	0.019 ²	0.038	0.025	0.133	0.047	0.022	0.036 ²
Partner: Years of Education	0.03	0.024	0.209	0.026	0.023	0.255	0.064	0.025	0.010 ²	0.067	0.024	0.007 ³
Work Hours/ Partner: Work Hours	-0.006	0.005	0.186	-0.008	0.004	0.075 ¹	-0.007	0.005	0.136	-0.006	0.004	0.163
Years Fulltime	0.15	0.052	0.004 ³	0.114	0.047	0.015 ²	0.038	0.067	0.57	-0.03	0.073	0.684
Years Parttime	0.158	0.046	0.001 ³	0.075	0.042	0.078 ¹	0.009	0.103	0.928	-0.04	0.094	0.673
Years OLF	0.123	0.044	0.006 ³	0.081	0.04	0.041 ²	0.033	0.087	0.701	-0.079	0.076	0.3
Years Fur.Educ	-0.167	0.225	0.46	0.165	0.158	0.295	-0.16	0.202	0.428	-0.037	0.243	0.879
Partner: Years Fulltime	0.041	0.081	0.616	0.128	0.065	0.051 ¹	0.098	0.058	0.091 ¹	0.031	0.047	0.516
Partner: Years Parttime	0.004	0.115	0.972	0.041	0.101	0.689	0.104	0.053	0.051 ¹	0.002	0.044	0.963
Partner: Years Fur.Educ	-0.475	0.256	0.065 ¹	0.014	0.303	0.964	-0.284	0.266	0.287	-0.045	0.201	0.824
Partner: Years OLF	0.14	0.119	0.239	0.212	0.275	0.44	0.076	0.052	0.148	-0.011	0.043	0.805
Partner: Max Prestige/ Max Prestige	0.005	0.002	0.032 ²	0.007	0.002	0.001 ³	0.004	0.002	0.041 ²	0.004	0.002	0.046 ²
Max Prestige/ Partner: Max Prestige	0.001	0.002	0.485	-0.002	0.002	0.166	0.001	0.002	0.788	-0.003	0.002	0.069 ¹
Constant	-2.844	1.015	0.005 ³	-3.411	0.898	0.000 ³	-2.904	0.943	0.002 ³	-1.137	0.939	0.227
N	502			466			451			425		
A-R2	0.24			0.29			0.26			0.28		

Note: Results split in gender of child. Analysis with partner data for both reference parents, employment restriction implicitly fulfilled by MPS-variable. ¹: 10%, ²: 5%, ³: 1%.

³⁷ (E)SLD: (Expected) School Leave Degree. GPA: Grade Point Average