

Online Appendix

Academic Achievement of Children in Same- and Different-Sex-Parented Families: A Population-Level Analysis of Linked Administrative Data from the Netherlands

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1. The Dutch Education System

In this section we discuss key features of the Dutch education system that are relevant to contextualize the analyses and findings presented in this study. A diagram of the Dutch education system is shown in Figure S1.

Primary school and standardized testing

Most children in the Netherlands enter primary school at age 6, after attending two years of kindergarten (Grades 1 and 2). Primary schools teach a common curriculum over a period of six years. In the last year of primary school (Grade 8), students participate in a standardized test (*Cito toets*), which is central to our empirical analysis. The test is designed and administered by *Cito*; an independent private firm specialized in educational testing (akin to Educational Testing Service in the United States). Approximately 85% of Dutch primary schools participate in the test (Kortlever and Lemmens 2012), and the test is compulsory for all students attending these institutions. A supplementary analysis (Table S7) reveals that children in same-sex-parented families are as likely to be attending a school participating in the test as children in different-sex-parented families.

The test covers three main subject modules: Dutch language, mathematics, and learning ability (e.g., text comprehension and information processing). In addition, schools can choose whether they want their students to participate in an optional World orientation module (geography, history and natural sciences). Upon completing the test, students receive scores on each of the modules, as well as an overall, summary test score corresponding to the three main modules.

The *Cito* test scores are of key importance to the students and their parents. They are intended to aid students in choosing the appropriate high school track for their level of ability and interests. In this regard, each student is issued a high school track recommendation based on their overall test score. For some selective schools, the overall test score also constitutes one of the admission criteria.

The format of the test has been largely stable over time, being subject to only one substantive modification within the period of observation. As discussed in the main body of the text, in 2015, the standalone leaning ability module was discontinued, and the questions contained within it were incorporated into the Dutch language and Mathematics modules. In the same year, the Dutch government also allowed primary schools to select test providers other than *Cito*. This led some

participating schools to change the test provider, rendering the pool of students taking the *Cito* test approximately 10% smaller than before. To ensure the robustness of our results to these changes, we also estimated sensitivity analyses excluding the tests conducted after year 2014 (see Appendix 4, Model 11). Results were comparable.

High school

Students enter high school in Grade 9. For 2 to 3 years they follow a common education track, usually referred to as the “bridging years”. Following this period, students branch out into one of three high school tracks: (i) an academic track (VWO), (ii) a general track (HAVO), and (iii) a pre-vocational track (VMBO).

The academic high school track ends in Grade 14 and it is the most prestigious track. A diploma from the academic track constitutes the minimum requirement for college enrolment. The general high school track ends one year earlier, in Grade 13, and prepares students for professionally-oriented higher education—akin to the German *Fachhochschulen*. The pre-vocational high school track ends in Grade 12 and teaches students trade-specific skills. Graduates from pre-vocational high schools may enter apprenticeships or follow further studies in secondary vocational schools.

The average *Cito*-score percentiles of students in the respective tracks are 83, 61 and 30. In our analyses of high school track choice, we focus on the track enrolment observed in Grade 12—as this is the first grade in which every student must have selected one of the three tracks.

Higher education

In the last year of high school, students apply for post-secondary studies. The admission process is largely non-selective, allowing high school graduates to enroll into any school and program that is available for their high school track. The entry-level programs include associate, professional bachelor, and college bachelor’s degrees, with the college bachelor being the most prestigious.

Students typically enroll into these program when they are 17-18 years old. A smaller number of students delays their entry into higher education, taking a ‘gap year’ after high school graduation. In the school year following their 19th birthdays, the vast majority of post-secondary students have enrolled into an entry-level program. For this reason, our analysis of high school graduation and college enrolments focuses on students’ outcomes at the start of the school year following their 19th birthdays.

Other distinctive features of the Dutch education system

There are several features of the Dutch educational environment that could amplify or contract the associations between same-sex parenting and children's educational outcomes. First, the Dutch education system is recognized for its flexibility, allowing students to switch between schools and education tracks without disrupting their education pathways. This may benefit students in same-sex-parented families, who could switch schools or tracks if they encounter hostility towards the LGBT community. The system is also known for the high degree of school autonomy, which enables students and their parents to choose from many different approaches to learning. Together with the near-universal availability of student counselling and mentoring (Sandfort et al. 2010), this can benefit children who require personalized learning plans and special considerations. On the other hand, the Dutch system sorts children into educational tracks from a relatively early age (age 12), which can dissuade students with early learning difficulties from pursuing advanced curricula. Many students could be also negatively affected by grade retention, which is higher than in most OECD countries.

2. Accessing Dutch linked administrative data

The linked, administrative data used in this study are maintained by the Dutch national statistical office (*Statistics Netherlands*) and they can be accessed by authorized researchers through a remote-access environment. To ensure individual privacy, all retrieved statistics and model estimates must be vetted by *Statistics Netherlands*. The release protocols stipulate that a statistic (such as a mean or variance) can be published only if it is based on more than 10 individual records.

To gain access to these data, researchers submit proposals which outline the aims of their research projects. Each project must involve a researcher who is affiliated with a university or research institution within the Netherlands. *Statistics Netherlands* evaluates the project proposals on the basis of their feasibility. An ethics board is not involved in the evaluation process. Approved projects are issued a contract which stipulates access conditions and costs. The costs vary depending on the duration of the project, number of data modules used, and other services provided by *Statistics Netherlands*. Further inquiries regarding the data access should be addressed to microdata@cbs.nl.

Researchers who obtain access to these data will be available to replicate our findings. Authors can be contacted to obtain a list of all the data modules used in the empirical analyses, as well as copies of the statistical software syntax used to generate the results.

3. Heterogeneity analyses, alternative specifications, and robustness checks for models of Cito test scores

To verify the reliability of our principal estimates and examine heterogeneity in the association between parental sex composition and child outcomes, we estimate a battery of supplementary models. In this section, we discuss the specifications and key results from these additional models. Unless otherwise indicated, the models use the full set of control variables presented in Table S3. We discuss the specifications in the order in which they appear in Tables S4-S8.

- 1-4. The first four models (Table S4) correspond to normalized test scores from the three compulsory subject-specific modules of the *Cito* test and the elective World orientation test module. The results corresponding to the compulsory modules are discussed in the main text. A positive association between being in a same-sex-parented family and child outcomes is found also for the World orientation module ($\beta=0.133$; $p<0.01$).
5. Model 5 (Table S5) splits the sample of same-sex-parented families into female and male same-sex-parented families. The results are discussed in the main text.
6. Model 6 (Table S5) estimates the association between parental sex composition and overall *Cito* test scores separately for male and female children. The results are discussed in the main text.
7. Model 7 (Table S5) allows the association between parental sex composition and overall *Cito* test scores to change over time, estimating its baseline magnitude in year 2006 and a linear trend over the following years. Using these model estimates, we compute that the magnitude of the positive association between being in a same-sex-parented family and children's overall *Cito* test scores diminished from 17.7% of SD in 2006 ($\beta=0.177$; $p<0.01$) to 6.9% in 2018 ($\beta=0.069$; $p=0.03$). Similar findings were obtained using a model with a quadratic time trend and a model interacting the same-sex parenting dummy with calendar year dummy variables (not shown in the table, but available upon request).
- 8-11. In Models 8 to 11 (Tables S5-S6) we investigate the robustness of our baseline results to alternative sample selections. This includes models: excluding children whose parents have missing education records (Model 8); excluding children whose parents are first-generation immigrants (Model 9); including children living in household arrangements other than two-parent families at the time of

taking the test (Model 10); and excluding the tests taken after year 2014, when the learning ability module was discontinued and children could sit tests by providers other than Cito (Model 11).

12. Model 12 (Table S7) controls for children's exposure to same-sex parenting between birth and the time of taking their *Cito* tests—irrespective of whether or not the child lives in a same-sex-parented family at the point of taking the test. To accomplish this, we included an additional dummy variable taking the value one for children who had any exposure to same-sex parenting prior to taking the test, and the value zero otherwise. The original dummy capturing same-sex-parenting at the time of the test was also kept in the specification. The estimated coefficient on the dummy variable capturing any exposure to same-sex parenting is positive and marginally statistically significant ($\beta=0.093$; $p=0.09$). The association corresponding to children living in same-sex parented families at the time of the test can be computed by summing up the two coefficients of interest. This amounts to 12% of a SD and resembles the coefficient estimated in the principal specification with the full set of controls ($\beta=0.120$; $p<0.01$).
13. Model 13 (Table S7) expands the modelling of earlier exposures to same-sex parenting. This model includes the dummy variable marking any exposure used in Model 8, and also a continuous variable capturing the proportion of the child's life spent in a same-sex-parented family. The latter variable equals one if the child lived in a same-sex-parented family from birth up to the date of the test, and zero if the child spent this time in different family structures (different-sex-parented family, single-parent household, other household types or institutionalized). The original same-sex parenting dummy capturing child's presence in a same-sex-parented family on the date of the test is not included in Model 13. For comparison purposes, we also include a variable indicating the proportion of the child's life spent in a different-sex-parented family. The estimates show that children who had some exposure to same-sex parenting attain higher test scores than children who had none ($\beta=0.086$; $p=0.01$). This association grows stronger among children who have more exposure to same-sex parenting: the coefficient corresponding to the proportion of life spent in a same-sex-parented family is positive ($\beta=0.108$; $p=0.01$) and twice as large as the coefficient corresponding to the proportion of life spent in a different-sex-parented family ($\beta=0.054$; $p<0.01$). Combining the three relevant coefficients, we can show that children who spent their entire lives in same-sex-parented families attain test scores that are 14% of SD higher than the test scores of children who spent their entire lives in different-sex-parented families.

14. Model 14 (Table S7) conditions the association between parental sex composition at the time of the test and children's overall *Cito* test scores on the composition of the child's household at birth. The estimated effect of being in a same-sex-parented family at the point of taking the test is strong and statistically significant among children who were born to those same parents ($\beta=0.148$; $p<0.01$), weaker among children who started their lives in single-parent household ($\beta=0.140$; $p=0.02$), and weakest among children born into a different two-parent family ($\beta=0.001$; $p=0.01$). The effect is strongest for children who began their lives in other household structures (e.g., multi-family households) ($\beta=0.195$; $p=0.04$). However, the precision of this estimate is lower than that of the other estimates, likely due to small cell sizes.
15. Model 15 (Table S7) extends the analysis of family transitions, focusing on the experiences of children in same-sex-parented families, and examining the impact of the initial breakdown of their different-sex-parented families on their test scores. The model examines whether the impacts of this breakdown differs from the impact of other family transitions experienced by children in our dataset. To this end, the model includes an extra dummy variable equal to one if children in same-sex-parented families experienced the initial breakdown of a different-sex-parented family, and zero otherwise. The coefficient corresponding to this variable represents the additional (dis)advantage associated with this type of transition, on top of the (dis)advantage associated with a family transition. The results show that the initial breakdown of a different-sex-parented family is no more or less damaging to the child's test scores than any other type of family transition. The coefficient corresponding to the new variable is close to zero and statistically insignificant ($\beta=0.015$; $p>0.1$).
- 16-18. We also estimate several models (Models 16-18, Tables S8 and S9) in which we examine the sensitivity of the results to using different protocols to parametrize parental characteristics. The three model specifications and the corresponding results are discussed in the main text.

4. Models of later-life educational outcomes

The last set of analyses corresponds to the outcomes of children at the secondary- and tertiary-education levels. Specifically, we estimate models of high school grade retention, enrolment into the academic high school track, high school graduation, and college enrolment. These outcomes are measured later in children's lives (age 15 for the first two models and age 19 for the latter two), which means that the population of children with observable later-life outcomes overlaps only partially with the population of children with observable *Cito* test scores.¹ To maximize the number of observations, we derive our estimation samples from the full population of children with observable later-life outcomes, regardless of whether we observe their *Cito* test scores or not.

The first outcome of interest is high school retention. Specifically, we consider the grade retention in Grades 9 to 12 (the first four grades of high school). We impose this restriction because the shortest high school track (pre-vocational) ends in Grade 12.

The second outcome of interest is enrolment into an academic track (rather than general or pre-vocational tracks). We focus on the academic track because it is the most selective and prestigious track, and because enrolment into this track is strongly correlated with proxies of cognitive ability (e.g., the average *Cito*-test percentile of students in the academic track is 83). We measure academic track enrolment in Grade 12, because at this point we can observe the enrollment choices of all high school students. Over the observation period, we observe 22% of Grade 12 students in the academic track, 23% in the general track, and 54% in the pre-vocational track.

The third and fourth outcomes, the high school graduation and college enrolment, are measured in the school year following children's 19th birthdays. As explained in Section 1 of these Supplementary Materials, this year marks the point by which the vast majority of all post-secondary students has enrolled into an entry-level program. To assess whether the results are sensitive to this age cut-off, we run a sensitivity analysis where we measure the high school graduation and college enrolment, are measured in the school year following children's 21st birthdays. In the analysis presented in the main body of the manuscript, we restrict the outcome

¹ The later-life educational outcomes are available between the years 2005 and 2017. This means that, for the first two outcomes, the data overlap in the subpopulation of children who took the *Cito* test between years 2006 and 2014 (entering the high school sample between years 2009 and 2017). For the latter two outcomes, the data overlap in the subpopulation of children who took the *Cito* test between years 2006 and 2010 (entering the graduate sample between years 2013 and 2017).

measure to the college bachelor enrolment (because it is the most selective and prestigious degree). Here, we also conduct an analysis of combined college and professional bachelor enrolments.

We construct our later-life analytical datasets using similar sample selection criteria as the main analytical dataset. We use education register data for the period 2005 to 2017. We isolate the cohorts of students with observable education outcomes and derive the characteristics of their households at ages which reflect the later measurement of these outcomes. For high school grade retention and high school track choice, we use household characteristics observed prior to entering Grade 12. Specifically, we consider the household composition and parental characteristics observed on July 1st prior to the start of the school year that follows children's 15th birthdays (this is the year when children typically enter Grade 12).

For high school graduation and college enrolment, we use characteristics observed shortly before children graduate from high school. The specific point of observation is July 1st prior to the start of the school year that follows children's 17th birthdays. We choose this date because it is one of the last points in time at which virtually all children still live with their parents (general track students start their tertiary studies in the following school year, see Figure S1). This means that for high school graduation and college enrollment, the measurement of the household and parental characteristics predates the outcome measurement by two years. In terms of sample selection, we again focus on children living in households with two parental figures, excluding children living in other household arrangements, children born abroad, and children with missing parental information.

The coefficient estimates corresponding to the four main models of later-life educational outcomes are presented in Table S10. The first model shows that grade retention is somewhat lower among children living with same-sex parents, although the association is not statistically significant ($\beta=-0.042$; $p=0.31$). This means that, conditional on their observed characteristics, children residing with same-sex parents at around age 15 are 3.5% less likely to repeat a high school grade. The model of high school track choice shows a clear positive association between academic track enrolment and living with a same-sex-parented family ($\beta=0.290$; $p<0.01$). Conditional on their observed characteristics, children with same-sex parents at around age 15 are 21.6% more likely to be enrolled in the academic track than comparable children with different-sex parents. There are also positive associations between being in a same-sex-parented family and high school graduation

($\beta=0.166$; $p=0.01$) and college enrolment ($\beta=0.131$; $p=0.02$) by age 19. Children who resided with same-sex parents at around age 17 are 1.5% more likely to graduate from high school and 11.2% more likely to be enrolled in a college by age 19.

Altogether, in three out of four models of later-life educational outcomes, children living in same-sex-parented families attain significantly better outcomes than children in different-sex-parented families. The only outcome for which no differences were observed is grade retention. Collectively, our results suggest that high school grade retention may thus not be an ideal measure of academic achievement. Indeed—at least in the Dutch context—high school grade retention may be a proxy for determination and perseverance, because underperforming students can choose to switch to an easier high school track without repeating the grade.

Table S11 lists the results of sensitivity analyses corresponding to the models of later-life educational outcomes. We estimated the models of high school graduation and college enrollment by age 21 (rather than age 19), shifting the threshold by two years to accommodate students who repeat school grades multiple times or are delayed in their academic progress for other reasons. The results of these two specifications are consistent with those in the main models. We find positive associations between being in a same-sex-parented family and high school graduation ($\beta=0.155$; $p=0.07$) and college enrolment ($\beta=0.149$; $p=0.02$) by age 21. A positive coefficient on the same-sex-parented-family dummy variable also emerged in a model of combined college and professional bachelor enrollment by age 19 ($\beta=0.166$; $p=0.01$). The last column of Table S11 shows a supplementary analysis in which we test for selection into the 85% of primary schools who participated in the *Cito* test over the period of observation. Using a logit model of enrollment at the participating schools, we find that children in same-sex-parented families are as likely to attend these schools as children in different-sex-parented families ($\beta=-0.008$; $p=0.82$). This means that the results of our principal analysis should not be affected by selective enrollment at the participating primary schools.

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Figures and Tables

Figure S1. Structure of the Dutch education system

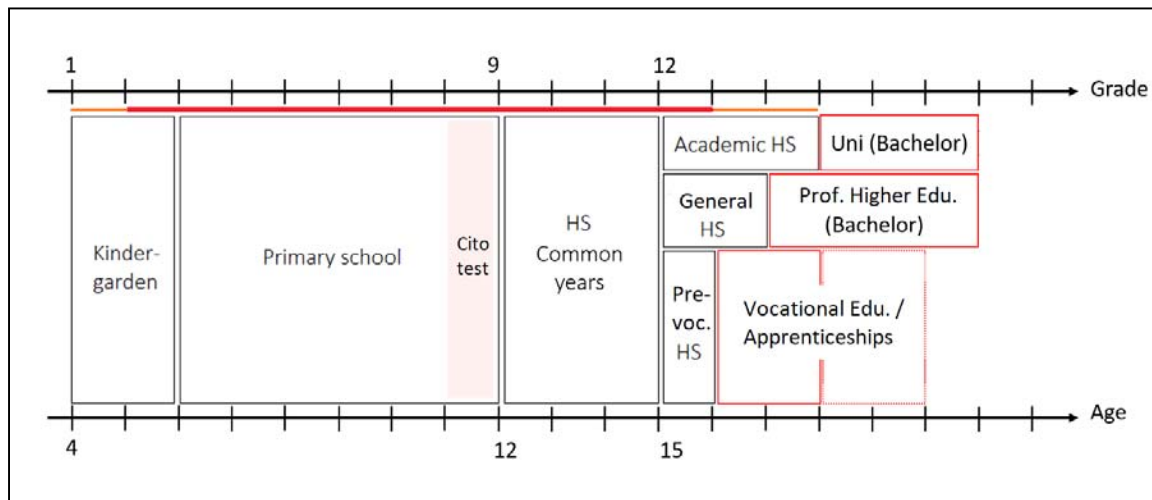


Table S1. Legislation on lesbian, gay, bisexual and transgender (LGBT) issues in the Netherlands

Year	Milestone
1811	Consensual same-sex sexual behaviour is decriminalised.
1946	A leading LGBT rights organisation, the Center for Culture and Leisure was established, reviving the LGBT rights movement.
1971	Homosexual and heterosexual age of consent become equal. Homosexual and heterosexual minimum wage become equal.
1973	LGBT people are allowed to serve in the military.
1979	Cohabiting same-sex couples are legally recognised.
1994	The Equal Rights Act bans discrimination in employment, housing, and public and private accommodations on the grounds of sexual orientation and gender identity.
1998	Same-sex couples can enter registered partnerships.
2001	Same-sex marriage is legalised. Same-sex couples can jointly adopt and adopt step-children. Both partners in a same-sex couple can become legal parents of a child born through surrogacy.
2002	Joint parental authority is possible for both different-sex and same-sex couples, even if only one partner is the legal parent of a child.
2004	International adoption by same-sex couples becomes legal.
2014	Lesbian co-mothers can become the legal parent of their female partners' children without the need for a legal adoption procedure.
2015	Same-sex parents gain a statutory right to paid and unpaid parental leave. Gay and bisexual men are able to donate blood (but must abstain from sex for 12 months to become eligible).

Sources: Waaldijk (2001); Hekma and Duyvendak (2013); Trandafir (2014); Pintens (2015); Kollman (2017); Dutch Civil Law (2018); Government of the Netherlands (2018).

Table S2. Summary statistics of children and their families in the main analytical (*Cito* test) sample

Variable	Different-sex-parented children		Same-sex-parented children	
	Mean	SD	Mean	SD
<i>Child's Cito test scores (percentiles) ^a</i>				
Overall	51.54	29.02	55.23	28.96
Language	51.93	29.10	56.96	28.88
Mathematics	52.08	29.15	53.22	29.13
Learning ability	53.60	29.38	58.00	29.09
<i>Child and family demographics</i>				
Birth year, child	1,999.94	3.69	2,000.56	3.67
Parents married (%)	88.07		44.88	
Parents registered partners (%)	1.03		17.03	
Child is female (%)	49.98		50.02	
Child is adopted (%)	0.16		0.90	
Number of children in the household	2.50	0.96	2.06	0.85
<i>Characteristics of male/older parent</i>				
Birth year	1,966.46	6.06	1,964.86	7.75
<i>Immigration background (%)</i>				
Native Dutch	81.97		83.07	
1 st generation immigrant	12.55		10.21	
2 nd generation immigrant	5.47		6.72	
<i>Ethnicity (%)</i>				
Dutch	81.97		83.07	
Moroccan	3.55		0.47	
Turkish	3.37		1.40	
Surinamese	1.41		2.59	
Netherlands Antilles & Aruba	0.42		1.10	
Other non-western countries	2.61		2.23	
Western countries	6.67		9.15	
<i>Education level (%)</i>				
High School or Less	54.33		44.61	
Bachelor's degree	14.81		20.33	
Master's degree	8.66		12.41	
PhD	1.37		2.13	
Education records missing	20.83		20.53	
<i>Characteristics of female/younger parent</i>				
Birth year	1,969.10	5.50	1,971.11	7.98
<i>Immigration background (%)</i>				
Native Dutch	81.29		83.73	
First-generation immigrant	13.04		8.75	
Second-generation immigrant	5.67		7.52	
<i>Ethnicity (%)</i>				
Dutch	81.29		83.73	

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Moroccan	3.52		0.40	
Turkish	3.22		1.16	
Surinamese	1.47		2.59	
Netherlands Antilles & Aruba	0.39		1.26	
Other non-western countries	2.81		1.93	
Western countries	7.31		8.92	
<i>Education level (%)</i>				
High School or Less	63.74		48.67	
Bachelor's degree	14.07		25.65	
Master's degree	7.42		13.67	
PhD	1.06		2.20	
Education records missing	13.71		9.81	
<i>Other household characteristics</i>				
<i>Province of residence (%)</i>				
Groningen	3.35		4.86	
Friesland	3.68		2.50	
Drenthe	2.60		2.00	
Overijssel	7.85		5.59	
Flevoland	2.52		3.06	
Gelderland	14.92		13.67	
Utrecht	8.37		11.18	
Noord-Holland	11.56		17.07	
Zuid-Holland	19.67		17.27	
Zeeland	2.13		1.53	
Noord-Brabant	16.84		16.30	
Limburg	6.52		4.99	
Urbanization (1=highest, 5=lowest)	3.06	1.26	2.56	1.24
<i>Family socio-economic status</i>				
<i>Parental employment (%)</i>				
Both parents not employed	3.40		4.09	
One parent employed	21.21		19.39	
Both parents employed	75.39		76.51	
<i>Parental disability (%)</i>				
Both parents not disabled	95.09		91.15	
One parent has a disability	4.69		8.35	
Both parents have a disability	0.23		0.50	
Annual gross income, deflated, in €1,000	93.75	54.65	89.89	50.70
<i>Family dynamics</i>				
At least 1 residential move (%)	29.23		36.06	
Total number of residential moves	0.38	0.70	0.58	0.99
At least 1 change of fam. structure (%)	10.44		57.35	
Total number of changes of fam. structure	0.24	0.79	1.31	1.54
<i>Initial household composition (%)</i>				
Couple household, same parents	91.57		44.15	
Couple household, different parents	5.79		44.68	

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Single-parent household	2.18		8.98	
Other household types/institutionalized	0.46		2.19	
Share of life in a same-sex household	0.00	0.34	63.61	37.38
<i>Observations</i>	<i>1,451,571</i>		<i>3,006</i>	

Notes: Test scores and family characteristics of children in two-parent families who participated in the *Cito* test between years 2006 and 2018. SD: Standard deviation. In compliance with the individual privacy criteria (each statistic has to correspond to more than 10 cases), we do not present bachelor's degrees split by type, and we bundle together the initial household composition categories "other household types" and "institutionalized"

^a Both groups obtain average test scores that are higher than the 50th percentile, which reflects the fact that the children excluded from the sample (i.e., children living in single-parent families and other household arrangements) have, on average, lower test scores than the children included in the sample.

Table S3. Coefficients (standard errors) from ordinary least squares regression models of children's *Cito* test scores, principal model estimates

Variables	Model 1		Model 2		Model 3		Model 4	
	Coeff.	SE	Coeff.	SE	Coeff.	SE	Coeff.	SE
Same-sex-parented family	0.118***	0.018	0.118***	0.017	0.053***	0.017	0.120***	0.017
Married or registered couple			0.036***	0.003	0.033***	0.002	-0.006**	0.002
Child is female			-0.017***	0.002	-0.013***	0.002	-0.012***	0.002
Child is adopted			-0.276***	0.021	-0.304***	0.021	-0.294***	0.021
Number of children in the household (<i>ref. Only the reference child</i>)								
2 children			0.102***	0.003	0.023***	0.003	0.007**	0.003
3 children			0.157***	0.003	0.026***	0.003	0.012***	0.003
4 children			0.123***	0.004	0.016***	0.004	0.006	0.004
5 children			0.041***	0.007	-0.004	0.006	-0.013**	0.006
6 children			-0.012	0.011	-0.017*	0.010	-0.029***	0.010
7 children			-0.073***	0.017	-0.056***	0.017	-0.069***	0.017
8+ children			-0.146***	0.016	-0.102***	0.016	-0.117***	0.016
Immigration history of male/older parent (<i>ref. Native Dutch</i>)								
1 st generation immigrant			-0.084***	0.005	-0.035***	0.005	-0.031***	0.005
2 nd generation immigrant			0.024***	0.004	-0.011***	0.003	-0.008**	0.003
Immigration history of female/younger parent (<i>ref. Native Dutch</i>)								
1 st generation immigrant			-0.008*	0.004	-0.004	0.004	-0.000	0.004
2 nd generation immigrant			0.034***	0.004	-0.006*	0.003	-0.001	0.003
Ethnicity of male/older parent (<i>ref. Dutch</i>)								
Moroccan			-0.241***	0.015	-0.099***	0.014	-0.112***	0.014
Turkish			-0.331***	0.014	-0.199***	0.014	-0.202***	0.014
Surinamese			-0.155***	0.010	-0.114***	0.009	-0.111***	0.009
Netherlands Antilles & Aruba			-0.198***	0.014	-0.169***	0.013	-0.154***	0.013
Other Non-Western			-0.033***	0.008	0.063***	0.008	0.063***	0.008
Ethnicity of female/younger parent (<i>ref. Dutch</i>)								

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Moroccan	-0.378***	0.014	-0.201***	0.014	-0.208***	0.014
Turkish	-0.333***	0.015	-0.226***	0.014	-0.236***	0.014
Surinamese	-0.189***	0.009	-0.149***	0.009	-0.135***	0.009
Netherlands Antilles & Aruba	-0.198***	0.014	-0.182***	0.014	-0.164***	0.013
Other Non-Western	-0.063***	0.007	0.014*	0.007	0.014**	0.007
Birth cohort of male/older parent						
<i>(ref. <1950)</i>						
1950-54	0.051***	0.010	-0.005	0.010	-0.007	0.010
1955-59	0.056***	0.009	-0.022**	0.009	-0.028***	0.009
1960-64	0.046***	0.009	-0.031***	0.009	-0.039***	0.009
1965-69	0.020**	0.009	-0.034***	0.009	-0.042***	0.009
1970-74	0.000	0.010	-0.060***	0.009	-0.064***	0.009
1975-79	-0.039***	0.010	-0.060***	0.010	-0.051***	0.010
1980-84	-0.144***	0.013	-0.095***	0.013	-0.049***	0.013
1985-89	-0.316***	0.025	-0.210***	0.025	-0.092***	0.025
1990+	-0.334***	0.060	-0.170***	0.059	-0.049	0.059
Birth cohort of female/younger parent						
<i>(ref. <1950)</i>						
1950-54	0.326***	0.052	0.171***	0.051	0.106**	0.050
1955-59	0.364***	0.050	0.191***	0.049	0.123**	0.049
1960-64	0.315***	0.050	0.172***	0.049	0.108**	0.049
1965-69	0.225***	0.050	0.157***	0.049	0.097**	0.049
1970-74	0.144***	0.050	0.120**	0.049	0.067	0.049
1975-79	0.079	0.050	0.133***	0.049	0.087*	0.049
1980-84	0.010	0.050	0.151***	0.050	0.117**	0.049
1985-89	-0.079	0.053	0.100*	0.052	0.110**	0.052
1990+	-0.149*	0.076	-0.009	0.075	0.025	0.075
Province of residence						
<i>(ref. Groningen)</i>						
Friesland	-0.037***	0.006	-0.014**	0.006	-0.016***	0.006
Drenthe	-0.004	0.007	-0.012*	0.006	-0.011*	0.006
Overijssel	0.030***	0.005	0.055***	0.005	0.051***	0.005
Flevoland	-0.039***	0.007	-0.061***	0.007	-0.060***	0.007
Gelderland	0.050***	0.005	0.033***	0.005	0.029***	0.005

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Utrecht	0.143 ^{***}	0.005	0.056 ^{***}	0.005	0.052 ^{***}	0.005
Noord-Holland	0.115 ^{***}	0.005	0.050 ^{***}	0.005	0.049 ^{***}	0.005
Zuid-Holland	0.063 ^{***}	0.005	0.036 ^{***}	0.005	0.031 ^{***}	0.005
Zeeland	0.076 ^{***}	0.007	0.073 ^{***}	0.007	0.072 ^{***}	0.007
Noord-Brabant	0.094 ^{***}	0.005	0.071 ^{***}	0.005	0.071 ^{***}	0.005
Limburg	0.142 ^{***}	0.005	0.136 ^{***}	0.005	0.135 ^{***}	0.005
Urbanization level (<i>ref. Level 1, most urbanized</i>)						
Level 2	-0.056 ^{***}	0.003	-0.023 ^{***}	0.003	-0.027 ^{***}	0.003
Level 3	-0.063 ^{***}	0.003	0.001	0.003	-0.008 ^{**}	0.003
Level 4	-0.098 ^{***}	0.003	0.010 ^{***}	0.003	-0.001	0.003
Level 5 (least urbanized)	-0.125 ^{***}	0.004	0.009 ^{***}	0.004	-0.003	0.004
Year of <i>Cito</i> test completion (<i>ref. 2006</i>)						
2007	0.013 ^{***}	0.004	0.002	0.004	0.002	0.004
2008	0.029 ^{***}	0.004	0.007 [*]	0.004	0.006	0.004
2009	0.051 ^{***}	0.004	0.016 ^{***}	0.004	0.014 ^{***}	0.004
2010	0.071 ^{***}	0.004	0.021 ^{***}	0.004	0.018 ^{***}	0.004
2011	0.087 ^{***}	0.004	0.023 ^{***}	0.004	0.017 ^{***}	0.004
2012	0.112 ^{***}	0.004	0.028 ^{***}	0.004	0.021 ^{***}	0.004
2013	0.131 ^{***}	0.004	0.030 ^{***}	0.004	0.021 ^{***}	0.004
2014	0.153 ^{***}	0.004	0.028 ^{***}	0.004	0.016 ^{***}	0.004
2015	0.168 ^{***}	0.004	0.023 ^{***}	0.004	0.007 [*]	0.004
2016	0.192 ^{***}	0.004	0.022 ^{***}	0.004	0.004	0.004
2017	0.216 ^{***}	0.005	0.019 ^{***}	0.004	-0.004	0.004
2018	0.241 ^{***}	0.005	0.016 ^{***}	0.005	-0.011 ^{**}	0.005
Education level of male/older parent (<i>ref. High school and less</i>)						
Associate degree			0.138 ^{***}	0.008	0.138 ^{***}	0.008
Professional bachelor			0.212 ^{***}	0.002	0.209 ^{***}	0.002
College bachelor			0.285 ^{***}	0.011	0.282 ^{***}	0.011
Master's degree			0.342 ^{***}	0.003	0.337 ^{***}	0.003
PhD			0.326 ^{***}	0.005	0.321 ^{***}	0.005
Missing			0.074 ^{***}	0.002	0.072 ^{***}	0.002

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Education level of female/younger parent				
<i>(ref. High school and less)</i>				
Associate degree	0.179***	0.008	0.182***	0.008
Professional bachelor	0.283***	0.002	0.281***	0.002
College bachelor	0.366***	0.012	0.369***	0.012
Master's degree	0.401***	0.003	0.398***	0.003
PhD	0.456***	0.006	0.453***	0.006
Missing	0.077***	0.003	0.072***	0.003
Parental employment				
<i>(ref. None of the parents employed)</i>				
One parent employed	0.136***	0.006	0.129***	0.006
Both parents employed	0.116***	0.006	0.107***	0.006
Parental disability				
<i>(ref. None of the parents has a disability)</i>				
One parent has a disability	-0.080***	0.004	-0.073***	0.004
Both parents have a disability	-0.046**	0.018	-0.032*	0.018
Income decile				
<i>(ref. 1st decile, lowest)</i>				
2 nd decile	0.000	0.006	-0.002	0.006
3 rd decile	0.019***	0.006	0.010*	0.006
4 th decile	0.075***	0.006	0.063***	0.006
5 th decile	0.138***	0.006	0.126***	0.006
6 th decile	0.209***	0.006	0.196***	0.006
7 th decile	0.274***	0.006	0.260***	0.006
8 th decile	0.333***	0.006	0.319***	0.006
9 th decile	0.383***	0.006	0.370***	0.006
10 th decile, highest	0.467***	0.006	0.454***	0.006
Negative income	0.213***	0.010	0.207***	0.010
# residential moves				
<i>(ref. None)</i>				
1 move			0.016***	0.002
2 moves			0.006*	0.004
3 moves			-0.011	0.007
4 moves			-0.051***	0.014

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5 moves							-0.044*	0.025
6 moves							-0.087**	0.038
7 moves							-0.161**	0.063
8+ moves							-0.106*	0.064
# changes in family structure (ref. None)								
1 change							-0.107***	0.010
2 changes							-0.132***	0.006
3 changes							-0.193***	0.010
4 changes							-0.230***	0.010
5 changes							-0.286***	0.017
6 changes							-0.279***	0.022
7 changes							-0.365***	0.033
8+ changes							-0.463***	0.034
Initial household composition (ref. Couple household, same parents)								
Couple household, different parents							-0.039***	0.007
Single-parent household							0.008	0.010
Other household type							0.005	0.015
Institutionalized							0.016	0.035
Constant	0.054***	0.001	-0.348***	0.050	-0.624***	0.049	-0.460***	0.049
<i>Observations</i>	<i>1,454,577</i>		<i>1,454,577</i>		<i>1,454,577</i>		<i>1,454,577</i>	
<i>R-squared</i>	<i>0.000</i>		<i>0.051</i>		<i>0.138</i>		<i>0.141</i>	

Notes: The analyses use linked administrative register data from the Netherlands (2006-2018). Children living in two-parent families at the time of taking the test. Coeff.: Coefficients from ordinary least squares regression models of children's educational achievement (standardized *Cito* test score). SE: Standard errors. Statistical significance: *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$.

Table S4. Models of *Cito* test components

Variables	(1) Language		(2) Mathematics		(3) Learning ability		(4) World orientation	
	Coeff.	SE	Coeff.	SE	Coeff.	SE	Coeff.	SE
Same-sex-parented family	0.131***	0.016	0.079***	0.017	0.130***	0.020	0.133***	0.019
Married or registered couple	0.000	0.002	-0.012***	0.003	-0.013***	0.003	-0.008***	0.003
Child is female	0.217***	0.001	-0.289***	0.002	-0.020***	0.002	-0.359***	0.002
Child is adopted	-0.153***	0.020	-0.379***	0.022	-0.273***	0.024	-0.167***	0.022
Number of children in the household (<i>ref. Only the reference child</i>)								
2 children	-0.153***	0.020	-0.379***	0.022	-0.273***	0.024	-0.167***	0.022
3 children	-0.033***	0.003	0.051***	0.003	0.010***	0.004	-0.039***	0.003
4 children	-0.045***	0.003	0.076***	0.003	0.010***	0.004	-0.056***	0.003
5 children	-0.053***	0.004	0.077***	0.004	-0.008*	0.005	-0.071***	0.004
6 children	-0.065***	0.006	0.062***	0.006	-0.051***	0.008	-0.108***	0.007
7 children	-0.074***	0.010	0.048***	0.010	-0.084***	0.012	-0.132***	0.012
8+ children	-0.109***	0.017	0.016	0.017	-0.143***	0.020	-0.170***	0.019
Immigration history of male/older parent (<i>ref. Native Dutch</i>)								
1 st generation immigrant	-0.027***	0.005	-0.024***	0.005	-0.037***	0.006	-0.058***	0.006
2 nd generation immigrant	0.010***	0.003	-0.026***	0.003	-0.008*	0.004	-0.005	0.004
Immigration history of female/younger parent (<i>ref. Native Dutch</i>)								
1 st generation immigrant	-0.024***	0.004	0.036***	0.004	-0.029***	0.005	-0.018***	0.005
2 nd generation immigrant	0.016***	0.003	-0.019***	0.003	-0.016***	0.004	-0.002	0.004
Ethnicity of male/older parent (<i>ref. Dutch</i>)								
Moroccan	-0.128***	0.014	-0.065***	0.014	-0.143***	0.018	-0.224***	0.017
Turkish	-0.251***	0.014	-0.097***	0.014	-0.202***	0.018	-0.320***	0.017
Surinamese	-0.079***	0.009	-0.114***	0.009	-0.149***	0.011	-0.196***	0.011
Netherlands Antilles & Aruba	-0.105***	0.013	-0.177***	0.013	-0.158***	0.016	-0.146***	0.015
Other Non-Western	0.044***	0.008	0.084***	0.008	0.013	0.010	-0.072***	0.009
Ethnicity of female/younger parent (<i>ref. Dutch</i>)								
Moroccan	-0.214***	0.014	-0.146***	0.014	-0.247***	0.018	-0.302***	0.017
Turkish	-0.325***	0.014	-0.082***	0.014	-0.248***	0.018	-0.402***	0.017
Surinamese	-0.103***	0.009	-0.137***	0.009	-0.171***	0.011	-0.202***	0.010

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Netherlands Antilles & Aruba	-0.107***	0.013	-0.190***	0.014	-0.170***	0.017	-0.142***	0.016
Other Non-Western	-0.017**	0.007	0.045***	0.007	-0.011	0.009	-0.058***	0.008
Birth cohort of male/older parent								
<i>(ref. <1950)</i>								
1950-54	-0.015	0.010	0.004	0.010	-0.027***	0.010	-0.040***	0.011
1955-59	-0.042***	0.009	-0.008	0.009	-0.046***	0.009	-0.063***	0.010
1960-64	-0.065***	0.009	-0.006	0.009	-0.052***	0.009	-0.077***	0.010
1965-69	-0.070***	0.009	-0.005	0.009	-0.049***	0.010	-0.080***	0.010
1970-74	-0.088***	0.009	-0.025***	0.009	-0.067***	0.010	-0.101***	0.010
1975-79	-0.070***	0.010	-0.022**	0.010	-0.061***	0.012	-0.078***	0.011
1980-84	-0.059***	0.013	-0.029**	0.013	-0.106***	0.020	-0.084***	0.015
1985-89	-0.112***	0.024	-0.051**	0.025	-0.101**	0.042	-0.133***	0.031
1990+	-0.070	0.060	-0.037	0.060	-0.106	0.119	-0.113	0.071
Birth cohort of female/younger parent								
<i>(ref. <1950)</i>								
1950-54	0.174***	0.050	0.006	0.050	0.085	0.053	0.052	0.059
1955-59	0.170***	0.049	0.034	0.049	0.107**	0.052	0.054	0.057
1960-64	0.144***	0.049	0.034	0.049	0.096*	0.052	0.029	0.057
1965-69	0.128***	0.049	0.033	0.049	0.098*	0.052	0.024	0.057
1970-74	0.095*	0.049	0.014	0.049	0.072	0.052	-0.011	0.057
1975-79	0.111**	0.049	0.032	0.049	0.078	0.052	-0.006	0.058
1980-84	0.136***	0.049	0.048	0.049	0.090*	0.053	0.002	0.058
1985-89	0.126**	0.052	0.038	0.052	0.078	0.067	-0.038	0.062
1990+	0.043	0.075	-0.036	0.076	-0.006	0.109	-0.171*	0.092
Province of residence								
<i>(ref. Groningen)</i>								
Friesland	-0.035***	0.006	0.009	0.006	-0.002	0.007	-0.031***	0.007
Drenthe	-0.017***	0.006	-0.002	0.006	0.006	0.007	0.011	0.007
Overijssel	0.032***	0.005	0.061***	0.005	0.069***	0.006	0.053***	0.006
Flevoland	-0.063***	0.007	-0.046***	0.007	-0.043***	0.008	-0.084***	0.008
Gelderland	0.015***	0.005	0.032***	0.005	0.067***	0.006	0.025***	0.005
Utrecht	0.042***	0.005	0.044***	0.005	0.093***	0.006	0.066***	0.005
Noord-Holland	0.030***	0.005	0.049***	0.005	0.095***	0.006	0.061***	0.005
Zuid-Holland	0.017***	0.005	0.039***	0.005	0.037***	0.005	0.081***	0.005
Zeeland	0.082***	0.007	0.044***	0.007	0.070***	0.008	0.121***	0.007
Noord-Brabant	0.044***	0.005	0.081***	0.005	0.104***	0.005	0.019***	0.005
Limburg	0.099***	0.005	0.151***	0.005	0.140***	0.006	0.014**	0.005

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Urbanization level								
<i>(ref. Level 1, most urbanized)</i>								
Level 2	-0.023***	0.003	-0.035***	0.003	-0.022***	0.004	0.045***	0.003
Level 3	-0.007**	0.003	-0.018***	0.003	-0.005	0.004	0.075***	0.004
Level 4	-0.013***	0.003	-0.002	0.003	0.000	0.004	0.074***	0.004
Level 5 (least urbanized)	-0.020***	0.004	0.000	0.004	0.001	0.004	0.101***	0.004
Year of <i>Cito</i> test completion								
<i>(ref. 2006)</i>								
2007	-0.061***	0.004	0.003	0.004	-0.002	0.004	0.002	0.004
2008	-0.051***	0.004	0.005	0.004	-0.001	0.004	0.004	0.004
2009	-0.046***	0.004	0.005	0.004	0.009**	0.004	0.009**	0.004
2010	-0.042***	0.004	0.009**	0.004	0.013***	0.004	0.017***	0.004
2011	-0.043***	0.004	0.008**	0.004	0.007*	0.004	0.014***	0.004
2012	-0.039***	0.004	0.004	0.004	0.009**	0.004	0.013***	0.004
2013	-0.049***	0.004	-0.007*	0.004	-0.001	0.004	0.022***	0.004
2014	-0.052***	0.004	-0.009**	0.004	-0.004	0.004	0.013***	0.004
2015	-0.060***	0.004	-0.013***	0.004			0.006	0.004
2016	-0.064***	0.004	-0.015***	0.004			-0.005	0.005
2017	-0.069***	0.004	-0.018***	0.005			-0.008	0.005
2018	-0.081***	0.005	-0.034***	0.005			-0.031***	0.006
Education level of male/older parent								
<i>(ref. High school and less)</i>								
Associate degree	0.133***	0.008	0.111***	0.008	0.125***	0.009	0.112***	0.008
Professional bachelor	0.202***	0.002	0.176***	0.002	0.183***	0.003	0.202***	0.003
College bachelor	0.289***	0.011	0.224***	0.011	0.233***	0.013	0.248***	0.012
Master's degree	0.332***	0.003	0.291***	0.003	0.290***	0.003	0.310***	0.003
PhD	0.316***	0.006	0.279***	0.006	0.260***	0.007	0.291***	0.006
Missing	0.064***	0.002	0.068***	0.002	0.063***	0.003	0.066***	0.003
Education level of female/younger parent								
<i>(ref. High school and less)</i>								
Associate degree	0.165***	0.008	0.161***	0.009	0.168***	0.010	0.167***	0.009
Professional bachelor	0.275***	0.002	0.235***	0.002	0.264***	0.003	0.297***	0.003
College bachelor	0.366***	0.012	0.307***	0.012	0.334***	0.014	0.394***	0.013
Master's degree	0.396***	0.003	0.338***	0.003	0.362***	0.003	0.405***	0.003
PhD	0.434***	0.006	0.415***	0.006	0.406***	0.007	0.459***	0.007
Missing	0.064***	0.003	0.067***	0.003	0.071***	0.003	0.075***	0.003
Parental employment								

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<i>(ref. None of the parents employed)</i>								
One parent employed	0.133***	0.006	0.092***	0.006	0.130***	0.007	0.149***	0.007
Both parents employed	0.103***	0.006	0.079***	0.006	0.120***	0.007	0.140***	0.007
Parental disability								
<i>(ref. None of the parents has a disability)</i>								
One parent has a disability	-0.070***	0.004	-0.060***	0.004	-0.068***	0.005	-0.058***	0.005
Both parents have a disability	-0.023	0.018	-0.042**	0.019	-0.003	0.023	0.012	0.022
Income decile								
<i>(ref. 1st decile, lowest)</i>								
2 nd decile	0.010	0.006	-0.018***	0.006	-0.007	0.007	0.010	0.007
3 rd decile	0.035***	0.006	-0.025***	0.006	0.008	0.007	0.031***	0.007
4 th decile	0.086***	0.006	0.018***	0.006	0.059***	0.007	0.079***	0.007
5 th decile	0.142***	0.006	0.073***	0.006	0.121***	0.007	0.138***	0.007
6 th decile	0.207***	0.006	0.135***	0.006	0.184***	0.007	0.199***	0.007
7 th decile	0.263***	0.006	0.194***	0.006	0.247***	0.007	0.251***	0.007
8 th decile	0.317***	0.006	0.249***	0.006	0.303***	0.007	0.298***	0.007
9 th decile	0.360***	0.006	0.300***	0.006	0.350***	0.007	0.333***	0.007
10 th decile, highest	0.432***	0.006	0.385***	0.006	0.430***	0.007	0.390***	0.007
Negative income	0.191***	0.010	0.161***	0.010	0.220***	0.012	0.218***	0.012
# residential moves								
<i>(ref. None)</i>								
1 move	0.022***	0.002	0.003	0.002	0.028***	0.002	0.036***	0.002
2 moves	0.021***	0.003	-0.016***	0.004	0.019***	0.004	0.045***	0.004
3 moves	0.008	0.007	-0.036***	0.008	0.013	0.008	0.047***	0.008
4 moves	-0.023*	0.014	-0.070***	0.014	-0.034**	0.017	0.015	0.016
5 moves	-0.010	0.025	-0.081***	0.025	-0.035	0.029	0.014	0.028
6 moves	-0.034	0.039	-0.133***	0.039	-0.039	0.045	0.023	0.043
7 moves	-0.088	0.064	-0.197***	0.062	-0.161**	0.077	-0.087	0.070
8+ moves	-0.049	0.064	-0.172***	0.067	-0.100	0.078	-0.039	0.076
# changes in family structure								
<i>(ref. None)</i>								
1 change	-0.103***	0.010	-0.083***	0.010	-0.105***	0.012	-0.112***	0.011
2 changes	-0.116***	0.006	-0.118***	0.006	-0.125***	0.007	-0.132***	0.007
3 changes	-0.171***	0.010	-0.168***	0.010	-0.183***	0.012	-0.187***	0.011
4 changes	-0.197***	0.010	-0.209***	0.011	-0.229***	0.013	-0.214***	0.012
5 changes	-0.250***	0.017	-0.246***	0.017	-0.287***	0.021	-0.286***	0.020
6 changes	-0.252***	0.021	-0.243***	0.022	-0.265***	0.026	-0.288***	0.025

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7 changes	-0.340***	0.033	-0.299***	0.034	-0.330***	0.040	-0.344***	0.040
8+ changes	-0.414***	0.033	-0.396***	0.035	-0.387***	0.039	-0.419***	0.039
Initial household composition <i>(ref. Couple household, same parents)</i>								
Couple household, different parents	-0.030***	0.007	-0.048***	0.007	-0.025***	0.008	-0.025***	0.008
Single-parent household	0.030***	0.010	-0.019*	0.010	0.011	0.012	0.026**	0.012
Other household type	0.016	0.014	-0.009	0.015	0.016	0.017	0.031*	0.016
Institutionalized	0.054	0.034	-0.049	0.035	0.065	0.040	0.030	0.040
Constant	-0.451***	0.049	-0.229***	0.049	-0.418***	0.052	-0.203***	0.058
<i>Observations</i>	1,454,577		1,454,577		1,049,087		1,125,740	
<i>R-squared</i>	0.151		0.119		0.128		0.185	

Notes: Coeff.: Coefficients from ordinary least squares regression models of children's educational achievement (standardized *Cito* test score). SE: Standard errors. The models use linked registry data for children living in coupled households at the time of taking the test. Test score data from years 2006 to 2018. Statistical significance: *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$.

Table S5. Models of overall *Cito* scores, heterogeneity analyses and robustness checks

Variables	(5)		(6)		(7)		(8)	
	Parent sex		Child sex		Time trend		Complete education records	
	Coeff.	SE	Coeff.	SE	Coeff.	SE	Coeff.	SE
Male same-sex-parented family	0.082	0.092						
Female same-sex-parented family	0.121***	0.017						
Same-sex-parented family, male child			0.130***	0.024				
Same-sex-parented family, female child			0.109***	0.023				
Same-sex-parented family					0.177***	0.034		
Same-sex-parented family × year					-0.009*	0.005		
Same-sex-parented at the time of the test							0.089***	0.019
Married or registered couple	-0.006**	0.002	-0.006**	0.002	-0.006**	0.002	0.000	0.003
Child is female	-0.012***	0.002	-0.012***	0.002	-0.012***	0.002	-0.010***	0.002
Child is adopted	-0.294***	0.021	-0.294***	0.021	-0.294***	0.021	-0.307***	0.027
Number of children in the household (<i>ref. Only the reference child</i>)								
2 children	0.007**	0.003	0.007**	0.003	0.007**	0.003	0.008**	0.004
3 children	0.012***	0.003	0.012***	0.003	0.012***	0.003	0.020***	0.004
4 children	0.006	0.004	0.006	0.004	0.006	0.004	0.022***	0.005
5 children	-0.013**	0.006	-0.013**	0.006	-0.013**	0.006	0.021***	0.008
6 children	-0.029***	0.010	-0.029***	0.010	-0.029***	0.010	0.010	0.012
7 children	-0.069***	0.017	-0.069***	0.017	-0.069***	0.017	-0.008	0.019
8+ children	-0.117***	0.016	-0.117***	0.016	-0.117***	0.016	-0.056***	0.019
Immigration history of male/older parent (<i>ref. Native Dutch</i>)								
1 st generation immigrant	-0.031***	0.005	-0.031***	0.005	-0.031***	0.005	-0.042***	0.006
2 nd generation immigrant	-0.008**	0.003	-0.008**	0.003	-0.008**	0.003	-0.013***	0.004
Immigration history of female/younger parent (<i>ref. Native Dutch</i>)								
1 st generation immigrant	-0.000	0.004	-0.000	0.004	-0.000	0.004	-0.024***	0.006
2 nd generation immigrant	-0.001	0.003	-0.001	0.003	-0.001	0.003	-0.011***	0.004
Ethnicity of male/older parent (<i>ref. Dutch</i>)								
Moroccan	-0.112***	0.014	-0.112***	0.014	-0.112***	0.014	-0.064***	0.017
Turkish	-0.202***	0.014	-0.202***	0.014	-0.202***	0.014	-0.158***	0.017

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Surinamese	-0.111***	0.009	-0.111***	0.009	-0.111***	0.009	-0.082***	0.011
Netherlands Antilles & Aruba	-0.154***	0.013	-0.154***	0.013	-0.154***	0.013	-0.131***	0.015
Other Non-Western	0.063***	0.008	0.063***	0.008	0.063***	0.008	0.082***	0.010
Ethnicity of female/younger parent (ref. Dutch)								
Moroccan	-0.208***	0.014	-0.208***	0.014	-0.208***	0.014	-0.158***	0.017
Turkish	-0.236***	0.014	-0.236***	0.014	-0.236***	0.014	-0.193***	0.017
Surinamese	-0.135***	0.009	-0.135***	0.009	-0.135***	0.009	-0.092***	0.011
Netherlands Antilles & Aruba	-0.164***	0.013	-0.164***	0.013	-0.164***	0.013	-0.142***	0.016
Other Non-Western	0.014**	0.007	0.014**	0.007	0.014**	0.007	0.037***	0.009
Birth cohort of male/older parent (ref. <1950)								
1950-54	-0.007	0.010	-0.007	0.010	-0.007	0.010	-0.027	0.017
1955-59	-0.028***	0.009	-0.028***	0.009	-0.027***	0.009	-0.027*	0.016
1960-64	-0.039***	0.009	-0.039***	0.009	-0.039***	0.009	-0.021	0.016
1965-69	-0.042***	0.009	-0.042***	0.009	-0.042***	0.009	-0.024	0.016
1970-74	-0.064***	0.009	-0.064***	0.009	-0.064***	0.009	-0.047***	0.016
1975-79	-0.051***	0.010	-0.051***	0.010	-0.051***	0.010	-0.036**	0.016
1980-84	-0.050***	0.013	-0.049***	0.013	-0.049***	0.013	-0.037**	0.018
1985-89	-0.093***	0.025	-0.092***	0.025	-0.092***	0.025	-0.084***	0.028
1990+	-0.050	0.059	-0.049	0.059	-0.051	0.059	-0.018	0.062
Birth cohort of female/younger parent (ref. <1950)								
1950-54			0.174***	0.050	0.006	0.050	0.138	0.101
1955-59	0.106**	0.050	0.106**	0.050	0.106**	0.050	0.177*	0.099
1960-64	0.123**	0.049	0.123**	0.049	0.123**	0.049	0.174*	0.099
1965-69	0.108**	0.049	0.108**	0.049	0.108**	0.049	0.164*	0.099
1970-74	0.097**	0.049	0.097**	0.049	0.097**	0.049	0.134	0.099
1975-79	0.067	0.049	0.067	0.049	0.067	0.049	0.149	0.099
1980-84	0.087*	0.049	0.087*	0.049	0.087*	0.049	0.170*	0.099
1985-89	0.117**	0.049	0.117**	0.049	0.117**	0.049	0.177*	0.100
1990+	0.110**	0.052	0.110**	0.052	0.110**	0.052	0.113	0.116
Province of residence (ref. Groningen)								
Friesland	-0.016***	0.006	-0.016***	0.006	-0.016***	0.006	-0.012*	0.007
Drenthe	-0.011*	0.006	-0.011*	0.006	-0.011*	0.006	-0.012	0.007

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Overijssel	0.051***	0.005	0.051***	0.005	0.051***	0.005	0.054***	0.006
Flevoland	-0.060***	0.007	-0.060***	0.007	-0.060***	0.007	-0.047***	0.008
Gelderland	0.029***	0.005	0.029***	0.005	0.029***	0.005	0.026***	0.005
Utrecht	0.052***	0.005	0.052***	0.005	0.052***	0.005	0.048***	0.006
Noord-Holland	0.049***	0.005	0.049***	0.005	0.049***	0.005	0.045***	0.006
Zuid-Holland	0.031***	0.005	0.031***	0.005	0.031***	0.005	0.039***	0.005
Zeeland	0.072***	0.007	0.072***	0.007	0.072***	0.007	0.079***	0.008
Noord-Brabant	0.071***	0.005	0.071***	0.005	0.071***	0.005	0.070***	0.005
Limburg	0.135***	0.005	0.135***	0.005	0.135***	0.005	0.133***	0.006
Urbanization level (ref. Level 1, most urbanized)								
Level 2	-0.027***	0.003	-0.027***	0.003	-0.027***	0.003	-0.022***	0.003
Level 3	-0.008**	0.003	-0.008**	0.003	-0.008**	0.003	0.003	0.004
Level 4	-0.001	0.003	-0.001	0.003	-0.001	0.003	0.016***	0.004
Level 5 (least urbanized)	-0.003	0.004	-0.003	0.004	-0.003	0.004	0.021***	0.004
Year of <i>Cito</i> test completion (ref. 2006)								
2007	0.002	0.004	0.002	0.004	0.002	0.004	0.007	0.005
2008	0.006	0.004	0.006	0.004	0.006	0.004	0.010*	0.005
2009	0.014***	0.004	0.014***	0.004	0.015***	0.004	0.014***	0.005
2010	0.018***	0.004	0.018***	0.004	0.018***	0.004	0.018***	0.005
2011	0.017***	0.004	0.017***	0.004	0.018***	0.004	0.014***	0.005
2012	0.021***	0.004	0.021***	0.004	0.021***	0.004	0.021***	0.005
2013	0.021***	0.004	0.021***	0.004	0.021***	0.004	0.020***	0.005
2014	0.016***	0.004	0.016***	0.004	0.017***	0.004	0.017***	0.005
2015	0.007*	0.004	0.007*	0.004	0.008*	0.004	0.005	0.005
2016	0.004	0.004	0.004	0.004	0.004	0.004	-0.000	0.005
2017	-0.004	0.004	-0.004	0.004	-0.004	0.004	-0.008	0.005
2018	-0.011**	0.005	-0.011**	0.005	-0.011**	0.005	-0.016***	0.006
Education level of male/older parent (ref. High school and less)								
Associate degree	0.138***	0.008	0.138***	0.008	0.138***	0.008	0.160***	0.008
Professional bachelor	0.209***	0.002	0.209***	0.002	0.209***	0.002	0.223***	0.002
College bachelor	0.282***	0.011	0.282***	0.011	0.282***	0.011	0.287***	0.011
Master's degree	0.337***	0.003	0.337***	0.003	0.337***	0.003	0.357***	0.003
PhD	0.321***	0.005	0.321***	0.005	0.321***	0.005	0.353***	0.006

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Missing	0.072***	0.002	0.072***	0.002	0.072***	0.002		
Education level of female/younger parent (ref. High school and less)								
Associate degree	0.182***	0.008	0.182***	0.008	0.182***	0.008	0.191***	0.009
Professional bachelor	0.281***	0.002	0.281***	0.002	0.281***	0.002	0.288***	0.002
College bachelor	0.369***	0.012	0.369***	0.012	0.369***	0.012	0.373***	0.013
Master's degree	0.398***	0.003	0.398***	0.003	0.398***	0.003	0.408***	0.003
PhD	0.453***	0.006	0.453***	0.006	0.453***	0.006	0.467***	0.006
Missing	0.072***	0.003	0.072***	0.003	0.072***	0.003		
Parental employment (ref. None of the parents employed)								
One parent employed	0.129***	0.006	0.129***	0.006	0.128***	0.006	0.138***	0.007
Both parents employed	0.107***	0.006	0.107***	0.006	0.107***	0.006	0.121***	0.007
Parental disability (ref. None of the parents has a disability)								
One parent has a disability	-0.073***	0.004	-0.073***	0.004	-0.073***	0.004	-0.065***	0.005
Both parents have a disability	-0.032*	0.018	-0.032*	0.018	-0.033*	0.018	0.012	0.023
Income decile (ref. 1 st decile, lowest)								
2 nd decile	-0.002	0.006	-0.002	0.006	-0.002	0.006	0.011	0.007
3 rd decile	0.010*	0.006	0.010*	0.006	0.010*	0.006	0.037***	0.007
4 th decile	0.063***	0.006	0.063***	0.006	0.063***	0.006	0.091***	0.007
5 th decile	0.126***	0.006	0.126***	0.006	0.126***	0.006	0.157***	0.007
6 th decile	0.195***	0.006	0.196***	0.006	0.196***	0.006	0.218***	0.007
7 th decile	0.260***	0.006	0.260***	0.006	0.260***	0.006	0.277***	0.007
8 th decile	0.319***	0.006	0.319***	0.006	0.319***	0.006	0.323***	0.007
9 th decile	0.370***	0.006	0.370***	0.006	0.370***	0.006	0.359***	0.007
10 th decile, highest	0.454***	0.006	0.454***	0.006	0.454***	0.006	0.417***	0.007
Negative income	0.206***	0.010	0.207***	0.010	0.207***	0.010	0.213***	0.012
# residential moves (ref. None)								
1 move	0.016***	0.002	0.016***	0.002	0.016***	0.002	0.012***	0.002
2 moves	0.006*	0.004	0.006*	0.004	0.006*	0.004	-0.001	0.004
3 moves	-0.011	0.007	-0.011	0.007	-0.011	0.007	-0.011	0.008
4 moves	-0.051***	0.014	-0.051***	0.014	-0.051***	0.014	-0.051***	0.016
5 moves	-0.044*	0.025	-0.044*	0.025	-0.044*	0.025	-0.048*	0.028

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6 moves	-0.087**	0.038	-0.087**	0.038	-0.087**	0.038	-0.081**	0.041
7 moves	-0.161**	0.063	-0.161**	0.063	-0.161**	0.063	-0.181***	0.066
8+ moves	-0.105	0.064	-0.106*	0.064	-0.106*	0.064	-0.158**	0.070
# changes in family structure (ref. None)								
1 change	-0.107***	0.010	-0.107***	0.010	-0.107***	0.010	-0.130***	0.011
2 changes	-0.132***	0.006	-0.132***	0.006	-0.132***	0.006	-0.143***	0.007
3 changes	-0.192***	0.010	-0.193***	0.010	-0.193***	0.010	-0.202***	0.011
4 changes	-0.230***	0.010	-0.230***	0.010	-0.230***	0.010	-0.240***	0.012
5 changes	-0.286***	0.017	-0.286***	0.017	-0.286***	0.017	-0.293***	0.019
6 changes	-0.279***	0.022	-0.279***	0.022	-0.279***	0.022	-0.284***	0.024
7 changes	-0.365***	0.033	-0.366***	0.033	-0.365***	0.033	-0.356***	0.036
8+ changes	-0.462***	0.034	-0.463***	0.034	-0.463***	0.034	-0.459***	0.036
Initial household composition (ref. Couple household, same parents)								
Couple household, different parents	-0.039***	0.007	-0.039***	0.007	-0.039***	0.007	-0.021***	0.008
Single-parent household	0.008	0.010	0.008	0.010	0.008	0.010	0.005	0.011
Other household type	0.005	0.015	0.005	0.015	0.005	0.015	0.026	0.017
Institutionalized	0.017	0.035	0.016	0.035	0.016	0.035	0.030	0.039
Constant	-0.460***	0.049	-0.460***	0.049	-0.460***	0.049	-0.598***	0.098
<i>Observations</i>	1,454,577		1,454,577		1,454,577		1,063,827	
<i>R-squared</i>	0.141		0.141		0.141		0.149	

Notes: Coeff.: Coefficients from ordinary least squares regression models of children's educational achievement (standardized *Cito* test score). SE: Standard errors. The models use linked registry data for children living in coupled households at the time of taking the test. Test score data from years 2006 to 2018. Statistical significance: *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$.

Table S6. Models of overall *Cito* scores, robustness checks

Variables	(9)		(10)		(11)	
	Native Dutch		All family types		2006-2014	
	Coeff.	SE	Coeff.	SE	Coeff.	SE
Same-sex-parented family	0.137***	0.017	0.099***	0.017	0.133***	0.020
Single-parent family					-0.067**	0.004
Any exposure to same-sex parenting						
Married or registered couple	-0.018***	0.003	-0.007***	0.002	-0.016***	0.003
Child is female	-0.008***	0.002	-0.011***	0.001	-0.039***	0.002
Child is adopted	-0.287***	0.022	-0.298***	0.020	-0.260***	0.024
Number of children in the household (<i>ref. Only the reference child</i>)						
2 children	0.008**	0.003	-0.010***	0.002	0.014***	0.004
3 children	0.020***	0.003	-0.010***	0.003	0.022***	0.004
4 children	0.026***	0.004	-0.023***	0.004	0.010**	0.005
5 children	0.033***	0.007	-0.042***	0.006	-0.015*	0.008
6 children	0.019	0.012	-0.057***	0.010	-0.041***	0.012
7 children	-0.029	0.018	-0.101***	0.016	-0.082***	0.020
8+ children	-0.084***	0.017	-0.138***	0.016	-0.144***	0.019
Immigration history of male/older parent (<i>ref. Native Dutch</i>)						
1 st generation immigrant			-0.039***	0.004	-0.028***	0.006
2 nd generation immigrant	-0.013***	0.004	-0.002	0.003	-0.007*	0.004
Immigration history of female/younger parent (<i>ref. Native Dutch</i>)						
1 st generation immigrant			0.010**	0.004	-0.018***	0.005
2 nd generation immigrant	-0.013***	0.004	-0.002	0.003	-0.011***	0.004
Ethnicity of male/older parent (<i>ref. Dutch</i>)						
Moroccan	-0.013***	0.004	-0.205***	0.009	-0.011***	0.004
Turkish	-0.025	0.039	-0.328***	0.009	-0.127***	0.018
Surinamese	-0.117***	0.033	-0.220***	0.007	-0.205***	0.017
Netherlands Antilles & Aruba	-0.101***	0.018	-0.279***	0.010	-0.127***	0.011
Other Non-Western	-0.029	0.023	0.017***	0.006	-0.168***	0.016
Ethnicity of female/younger parent (<i>ref. Dutch</i>)						
Moroccan	-0.064*	0.039	-0.106***	0.010	-0.244***	0.018

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Turkish	-0.142***	0.035	-0.106***	0.010	-0.261***	0.017
Surinamese	-0.109***	0.018	-0.065***	0.008	-0.151***	0.011
Netherlands Antilles & Aruba	-0.010	0.022	-0.111***	0.013	-0.161***	0.017
Other Non-Western	0.015	0.020	0.051***	0.007	-0.007	0.009
Birth cohort of male/older parent						
<i>(ref. <1950)</i>						
1950-54	-0.053***	0.012	-0.005	0.010	-0.019*	0.010
1955-59	-0.089***	0.011	-0.022**	0.009	-0.046***	0.009
1960-64	-0.102***	0.011	-0.038***	0.009	-0.058***	0.009
1965-69	-0.102***	0.012	-0.048***	0.009	-0.057***	0.010
1970-74	-0.119***	0.012	-0.085***	0.009	-0.073***	0.010
1975-79	-0.097***	0.012	-0.097***	0.009	-0.072***	0.012
1980-84	-0.094***	0.016	-0.127***	0.011	-0.102***	0.020
1985-89	-0.108***	0.028	-0.140***	0.019	-0.091**	0.042
1990+	-0.069	0.067	-0.049	0.055	-0.120	0.122
Birth cohort of female/younger parent						
<i>(ref. <1950)</i>						
1950-54	0.059	0.071	0.096*	0.050	0.113**	0.053
1955-59	0.068	0.070	0.110**	0.049	0.127**	0.051
1960-64	0.053	0.069	0.098**	0.049	0.113**	0.051
1965-69	0.047	0.070	0.092*	0.049	0.108**	0.051
1970-74	0.016	0.070	0.073	0.049	0.077	0.051
1975-79	0.026	0.070	0.107**	0.049	0.091*	0.052
1980-84	0.027	0.070	0.158***	0.049	0.106**	0.053
1985-89	0.044	0.073	0.164***	0.052	0.073	0.066
1990+	-0.034	0.097	0.060	0.074	0.026	0.110
Province of residence						
<i>(ref. Groningen)</i>						
Friesland	-0.012**	0.006	-0.014***	0.005	-0.008	0.007
Drenthe	-0.007	0.007	-0.011*	0.006	-0.000	0.007
Overijssel	0.057***	0.005	0.049***	0.005	0.065***	0.006
Flevoland	-0.061***	0.007	-0.059***	0.006	-0.063***	0.008
Gelderland	0.033***	0.005	0.028***	0.004	0.053***	0.006
Utrecht	0.059***	0.005	0.059***	0.005	0.086***	0.006
Noord-Holland	0.054***	0.005	0.051***	0.004	0.094***	0.006
Zuid-Holland	0.036***	0.005	0.029***	0.004	0.039***	0.005
Zeeland	0.081***	0.007	0.069***	0.006	0.086***	0.008

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Noord-Brabant	0.074 ^{***}	0.005	0.073 ^{***}	0.004	0.093 ^{***}	0.005
Limburg	0.140 ^{***}	0.005	0.132 ^{***}	0.005	0.152 ^{***}	0.006
Urbanization level (ref. Level 1, most urbanized)						
Level 2	-0.040 ^{***}	0.003	-0.022 ^{***}	0.003	-0.025 ^{***}	0.004
Level 3	-0.014 ^{***}	0.003	-0.002	0.003	-0.014 ^{***}	0.004
Level 4	-0.007 ^{**}	0.004	0.004	0.003	-0.011 ^{***}	0.004
Level 5 (least urbanized)	-0.012 ^{***}	0.004	0.003	0.003	-0.015 ^{***}	0.004
Year of <i>Cito</i> test completion (ref. 2006)						
2007	0.000	0.004	0.005	0.004	0.001	0.004
2008	-0.002	0.004	0.008 ^{**}	0.004	0.005	0.004
2009	0.010 ^{**}	0.004	0.014 ^{***}	0.004	0.013 ^{***}	0.004
2010	0.016 ^{***}	0.004	0.017 ^{***}	0.004	0.016 ^{***}	0.004
2011	0.006	0.004	0.018 ^{***}	0.004	0.014 ^{***}	0.004
2012	0.006	0.004	0.019 ^{***}	0.004	0.018 ^{***}	0.004
2013	0.007	0.004	0.021 ^{***}	0.004	0.017 ^{***}	0.004
2014	-0.006	0.004	0.014 ^{***}	0.004	0.013 ^{***}	0.004
2015	-0.020 ^{***}	0.004	0.008 ^{**}	0.004		
2016	-0.028 ^{***}	0.005	0.003	0.004		
2017	-0.037 ^{***}	0.005	-0.002	0.004		
2018	-0.052 ^{***}	0.005	-0.010 ^{**}	0.004		
Education level of male/older parent (ref. High school and less)						
Associate degree	0.132 ^{***}	0.008	0.160 ^{***}	0.007	0.135 ^{***}	0.009
Professional bachelor	0.206 ^{***}	0.002	0.243 ^{***}	0.002	0.202 ^{***}	0.003
College bachelor	0.271 ^{***}	0.012	0.340 ^{***}	0.010	0.272 ^{***}	0.013
Master's degree	0.334 ^{***}	0.003	0.381 ^{***}	0.003	0.332 ^{***}	0.003
PhD	0.315 ^{***}	0.006	0.370 ^{***}	0.005	0.303 ^{***}	0.007
Missing	0.071 ^{***}	0.003	0.084 ^{***}	0.002	0.070 ^{***}	0.003
Education level of female/younger parent (ref. High school and less)						
Associate degree	0.186 ^{***}	0.009	0.176 ^{***}	0.008	0.176 ^{***}	0.010
Professional bachelor	0.283 ^{***}	0.002	0.274 ^{***}	0.002	0.288 ^{***}	0.003
College bachelor	0.364 ^{***}	0.013	0.358 ^{***}	0.012	0.386 ^{***}	0.014
Master's degree	0.399 ^{***}	0.003	0.386 ^{***}	0.003	0.409 ^{***}	0.003
PhD	0.459 ^{***}	0.006	0.440 ^{***}	0.006	0.467 ^{***}	0.007

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Missing	0.074***	0.004	0.066***	0.003	0.074***	0.003
Parental employment (<i>ref. None of the parents employed</i>)						
One parent employed	0.167***	0.010	0.115***	0.004	0.125***	0.007
Both parents employed	0.148***	0.010	0.090***	0.004	0.104***	0.007
Parental employment (<i>ref. None of the parents has a disability</i>)						
One parent has a disability	-0.091***	0.005	-0.061***	0.004	-0.078***	0.005
Both parents have a disability	0.009	0.028	-0.055***	0.018	-0.033	0.022
Income decile (<i>ref. 1st decile, lowest</i>)						
2 nd decile	-0.033***	0.009	0.098***	0.004	-0.010	0.007
3 rd decile	-0.013	0.008	0.133***	0.004	-0.001	0.007
4 th decile	0.046***	0.008	0.181***	0.004	0.054***	0.007
5 th decile	0.111***	0.008	0.239***	0.004	0.119***	0.007
6 th decile	0.179***	0.008	0.305***	0.004	0.191***	0.007
7 th decile	0.244***	0.008	0.366***	0.004	0.259***	0.007
8 th decile	0.301***	0.008	0.422***	0.004	0.326***	0.007
9 th decile	0.351***	0.008	0.469***	0.004	0.383***	0.007
10 th decile, highest	0.430***	0.008	0.549***	0.005	0.475***	0.007
Negative income	0.206***	0.013	0.274***	0.008	0.209***	0.012
# residential moves (<i>ref. None</i>)						
1 move	0.012***	0.002	0.020***	0.002	0.021***	0.002
2 moves	0.004	0.004	0.013***	0.003	0.010**	0.004
3 moves	-0.026***	0.008	-0.001	0.006	-0.002	0.008
4 moves	-0.059***	0.017	-0.034***	0.011	-0.052***	0.016
5 moves	-0.059**	0.030	-0.011	0.018	-0.043	0.029
6 moves	-0.098**	0.048	-0.061**	0.028	-0.073	0.045
7 moves	-0.202***	0.074	-0.106**	0.043	-0.193**	0.076
8+ moves	-0.166**	0.078	-0.082*	0.043	-0.103	0.076
# changes in family structure (<i>ref. None</i>)						
1 change	-0.150***	0.012	0.011**	0.005	-0.106***	0.011
2 changes	-0.168***	0.008	-0.101***	0.005	-0.132***	0.007
3 changes	-0.239***	0.012	-0.123***	0.007	-0.187***	0.012
4 changes	-0.281***	0.013	-0.192***	0.008	-0.235***	0.012

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5 changes	-0.341***	0.021	-0.228***	0.011	-0.294***	0.020
6 changes	-0.354***	0.027	-0.251***	0.015	-0.289***	0.025
7 changes	-0.424***	0.042	-0.274***	0.021	-0.375***	0.039
8+ changes	-0.524***	0.043	-0.370***	0.021	-0.442***	0.040
Initial household composition (ref. Couple household, same parents)						
Couple household, different parents	-0.003	0.009	-0.070***	0.006	-0.039***	0.008
Single-parent household	0.039***	0.013	-0.117***	0.006	0.012	0.012
Other household type	0.011	0.020	-0.092***	0.011	0.014	0.017
Institutionalized	0.038	0.045	-0.112***	0.026	0.043	0.040
Constant	-0.346***	0.070	-0.538***	0.049	-0.441***	0.052
<i>Observations</i>	1,220,402		1,717,742		1,049,087	
<i>R-squared</i>	0.118		0.145		0.145	

Notes: Coeff.: Coefficients from ordinary least squares regression models of children's educational achievement (standardized *Cito* test score). SE: Standard errors. The models use linked registry data for children living in coupled households at the time of taking the test. Test score data from years 2006 to 2018. Statistical significance: *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$.

Table S7. Models of overall *Cito* scores, robustness checks

Variables	(12)		(13)		(14)		(15)	
	Any exposure		Share of life		Initial conditions		DSPF breakdown	
	Coeff.	SE	Coeff.	SE	Coeff.	SE	Coeff.	SE
Any exposure to same-sex parenting	0.093*	0.056	0.086***	0.031				
Share of life in same-sex-parented family			0.108**	0.043				
Share of life in different-sex-parented family			0.054***	0.013				
Initial household composition (<i>ref. Couple household, same parents</i>)								
Couple household, different parents					-0.050***	0.006		
Single-parent household					-0.043***	0.012		
Other household type					-0.035	0.035		
Same-sex-parented family (SSPF) × initial household composition								
SSPF × Couple household, same parents					0.148***	0.023		
SSPF × Couple household, different parents					0.087***	0.026		
SSPF × Single-parent household					0.140**	0.058		
SSPF × Other household type					0.195**	0.097		
SSPF × Initially DSPF household							-0.015	0.096
Same-sex-parented family	0.026	0.058			0.099***	0.017	0.118***	0.017
Married or registered couple	-0.006**	0.002	0.000	0.003	-0.007***	0.002	-0.006**	0.002
Child is female	-0.012***	0.002	-0.010***	0.002	-0.011***	0.001	-0.012***	0.002
Child is adopted	-0.294***	0.021	-0.307***	0.027	-0.298***	0.020	-0.294***	0.021
Number of children in the household (<i>ref. Only the reference child</i>)								
2 children	0.007**	0.003	0.008**	0.004	-0.010***	0.002	0.007**	0.003
3 children	0.012***	0.003	0.020***	0.004	-0.010***	0.003	0.012***	0.003
4 children	0.006	0.004	0.022***	0.005	-0.023***	0.004	0.006	0.004
5 children	-0.013**	0.006	0.021***	0.008	-0.042***	0.006	-0.013**	0.006
6 children	-0.029***	0.010	0.010	0.012	-0.057***	0.010	-0.029***	0.010
7 children	-0.069***	0.017	-0.008	0.019	-0.101***	0.016	-0.069***	0.017
8+ children	-0.117***	0.016	-0.056***	0.019	-0.138***	0.016	-0.117***	0.016
Immigration history of male/older parent (<i>ref. Native Dutch</i>)								
1 st generation immigrant	-0.031***	0.005	-0.042***	0.006	-0.039***	0.004	-0.031***	0.005
2 nd generation immigrant	-0.008**	0.003	-0.013***	0.004	-0.002	0.003	-0.008**	0.003

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Immigration history of female/younger parent								
<i>(ref. Native Dutch)</i>								
1 st generation immigrant	-0.000	0.004	-0.024***	0.006	0.010**	0.004	-0.000	0.004
2 nd generation immigrant	-0.001	0.003	-0.011***	0.004	-0.002	0.003	-0.001	0.003
Ethnicity of male/older parent								
<i>(ref. Dutch)</i>								
Moroccan	-0.112***	0.014	-0.064***	0.017	-0.205***	0.009	-0.112***	0.014
Turkish	-0.202***	0.014	-0.158***	0.017	-0.328***	0.009	-0.202***	0.014
Surinamese	-0.111***	0.009	-0.082***	0.011	-0.220***	0.007	-0.112***	0.009
Netherlands Antilles & Aruba	-0.154***	0.013	-0.131***	0.015	-0.279***	0.010	-0.154***	0.013
Other Non-Western	0.063***	0.008	0.082***	0.010	0.017***	0.006	0.063***	0.008
Ethnicity of female/younger parent								
<i>(ref. Dutch)</i>								
Moroccan	-0.208***	0.014	-0.158***	0.017	-0.106***	0.010	-0.208***	0.014
Turkish	-0.235***	0.014	-0.193***	0.017	-0.106***	0.010	-0.236***	0.014
Surinamese	-0.136***	0.009	-0.092***	0.011	-0.065***	0.008	-0.135***	0.009
Netherlands Antilles & Aruba	-0.164***	0.013	-0.142***	0.016	-0.111***	0.013	-0.164***	0.013
Other Non-Western	0.014**	0.007	0.037***	0.009	0.051***	0.007	0.014**	0.007
Birth cohort of male/older parent								
<i>(ref. <1950)</i>								
1950-54	-0.007	0.010	-0.027	0.017	-0.005	0.010	-0.007	0.010
1955-59	-0.028***	0.009	-0.027*	0.016	-0.022**	0.009	-0.028***	0.009
1960-64	-0.039***	0.009	-0.021	0.016	-0.038***	0.009	-0.039***	0.009
1965-69	-0.042***	0.009	-0.024	0.016	-0.048***	0.009	-0.042***	0.009
1970-74	-0.064***	0.009	-0.047***	0.016	-0.085***	0.009	-0.064***	0.009
1975-79	-0.051***	0.010	-0.036**	0.016	-0.097***	0.009	-0.051***	0.010
1980-84	-0.049***	0.013	-0.037**	0.018	-0.127***	0.011	-0.050***	0.013
1985-89	-0.092***	0.025	-0.084***	0.028	-0.140***	0.019	-0.093***	0.025
1990+	-0.049	0.059	-0.018	0.062	-0.049	0.055	-0.050	0.059
Birth cohort of female/younger parent								
<i>(ref. <1950)</i>								
1950-54	0.085	0.053	0.138	0.101	0.096*	0.050		
1955-59	0.106**	0.050	0.177*	0.099	0.110**	0.049	0.106**	0.050
1960-64	0.123**	0.049	0.174*	0.099	0.098**	0.049	0.123**	0.049
1965-69	0.108**	0.049	0.164*	0.099	0.092*	0.049	0.108**	0.049
1970-74	0.097**	0.049	0.134	0.099	0.073	0.049	0.097**	0.049
1975-79	0.067	0.049	0.149	0.099	0.107**	0.049	0.067	0.049

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1980-84	0.087*	0.049	0.170*	0.099	0.158***	0.049	0.087*	0.049
1985-89	0.117**	0.049	0.177*	0.100	0.164***	0.052	0.117**	0.049
1990+	0.110**	0.052	0.113	0.116	0.060	0.074	0.110**	0.052
Province of residence								
<i>(ref. Groningen)</i>								
Friesland	-0.016***	0.006	-0.012*	0.007	-0.014***	0.005	-0.016***	0.006
Drenthe	-0.011*	0.006	-0.012	0.007	-0.011*	0.006	-0.011*	0.006
Overijssel	0.051***	0.005	0.054***	0.006	0.049***	0.005	0.051***	0.005
Flevoland	-0.060***	0.007	-0.047***	0.008	-0.059***	0.006	-0.060***	0.006
Gelderland	0.029***	0.005	0.026***	0.005	0.028***	0.004	0.029***	0.005
Utrecht	0.052***	0.005	0.048***	0.006	0.059***	0.005	0.052***	0.005
Noord-Holland	0.049***	0.005	0.045***	0.006	0.051***	0.004	0.049***	0.005
Zuid-Holland	0.031***	0.005	0.039***	0.005	0.029***	0.004	0.032***	0.005
Zeeland	0.072***	0.007	0.079***	0.008	0.069***	0.006	0.072***	0.007
Noord-Brabant	0.071***	0.005	0.070***	0.005	0.073***	0.004	0.071***	0.005
Limburg	0.135***	0.005	0.133***	0.006	0.132***	0.005	0.135***	0.005
Urbanization level								
<i>(ref. Level 1, most urbanized)</i>								
Level 2	-0.027***	0.003	-0.022***	0.003	-0.022***	0.003	-0.027***	0.003
Level 3	-0.008**	0.003	0.003	0.004	-0.002	0.003	-0.008**	0.003
Level 4	-0.001	0.003	0.016***	0.004	0.004	0.003	-0.001	0.003
Level 5 (least urbanized)	-0.003	0.004	0.021***	0.004	0.003	0.003	-0.003	0.004
Year of <i>Cito</i> test completion								
<i>(ref. 2006)</i>								
2007	0.002	0.004	0.007	0.005	0.005	0.004	0.002	0.004
2008	0.006	0.004	0.010*	0.005	0.008**	0.004	0.006	0.004
2009	0.014***	0.004	0.014***	0.005	0.014***	0.004	0.014***	0.004
2010	0.018***	0.004	0.018***	0.005	0.017***	0.004	0.018***	0.004
2011	0.017***	0.004	0.014***	0.005	0.018***	0.004	0.017***	0.004
2012	0.021***	0.004	0.021***	0.005	0.019***	0.004	0.021***	0.004
2013	0.021***	0.004	0.020***	0.005	0.021***	0.004	0.021***	0.004
2014	0.016***	0.004	0.017***	0.005	0.014***	0.004	0.016***	0.004
2015	0.007*	0.004	0.005	0.005	0.008**	0.004	0.007*	0.004
2016	0.004	0.004	-0.000	0.005	0.003	0.004	0.004	0.004
2017	-0.004	0.004	-0.008	0.005	-0.002	0.004	-0.004	0.004
2018	-0.011**	0.005	-0.016***	0.006	-0.010**	0.004	-0.011**	0.005
Education level of male/older parent								

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<i>(ref. High school and less)</i>								
Associate degree	0.138***	0.008	0.160***	0.008	0.160***	0.007	0.138***	0.008
Professional bachelor	0.209***	0.002	0.223***	0.002	0.243***	0.002	0.209***	0.002
College bachelor	0.282***	0.011	0.287***	0.011	0.340***	0.010	0.282***	0.011
Master's degree	0.337***	0.003	0.357***	0.003	0.381***	0.003	0.337***	0.003
PhD	0.321***	0.005	0.353***	0.006	0.370***	0.005	0.321***	0.005
Missing	0.072***	0.002			0.084***	0.002	0.072***	0.002
Education level of female/younger parent								
<i>(ref. High school and less)</i>								
Associate degree	0.182***	0.008	0.191***	0.009	0.176***	0.008	0.182***	0.008
Professional bachelor	0.281***	0.002	0.288***	0.002	0.274***	0.002	0.281***	0.002
College bachelor	0.369***	0.012	0.373***	0.013	0.358***	0.012	0.369***	0.012
Master's degree	0.398***	0.003	0.408***	0.003	0.386***	0.003	0.398***	0.003
PhD	0.453***	0.006	0.467***	0.006	0.440***	0.006	0.453***	0.006
Missing	0.072***	0.003			0.066***	0.003	0.072***	0.003
Parental employment								
<i>(ref. None of the parents employed)</i>								
One parent employed	0.129***	0.006	0.138***	0.007	0.115***	0.004	0.129***	0.006
Both parents employed	0.107***	0.006	0.121***	0.007	0.090***	0.004	0.107***	0.006
Parental employment								
<i>(ref. None of the parents has a disability)</i>								
One parent has a disability	-0.073***	0.004	-0.065***	0.005	-0.061***	0.004	-0.073***	0.004
Both parents have a disability	-0.032*	0.018	0.012	0.023	-0.055***	0.018	-0.032*	0.018
Income decile								
<i>(ref. 1st decile, lowest)</i>								
2 nd decile	-0.002	0.006	0.011	0.007	0.098***	0.004	-0.002	0.006
3 rd decile	0.010*	0.006	0.037***	0.007	0.133***	0.004	0.010*	0.006
4 th decile	0.063***	0.006	0.091***	0.007	0.181***	0.004	0.063***	0.006
5 th decile	0.126***	0.006	0.157***	0.007	0.239***	0.004	0.126***	0.006
6 th decile	0.196***	0.006	0.218***	0.007	0.305***	0.004	0.195***	0.006
7 th decile	0.260***	0.006	0.277***	0.007	0.366***	0.004	0.260***	0.006
8 th decile	0.319***	0.006	0.323***	0.007	0.422***	0.004	0.319***	0.006
9 th decile	0.370***	0.006	0.359***	0.007	0.469***	0.004	0.370***	0.006
10 th decile, highest	0.454***	0.006	0.417***	0.007	0.549***	0.005	0.454***	0.006
Negative income	0.207***	0.010	0.213***	0.012	0.274***	0.008	0.206***	0.010
# residential moves								
<i>(ref. None)</i>								

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1 move	0.016***	0.002	0.012***	0.002	0.020***	0.002	0.016***	0.002
2 moves	0.006*	0.004	-0.001	0.004	0.013***	0.003	0.006*	0.004
3 moves	-0.011	0.007	-0.011	0.008	-0.001	0.006	-0.011	0.007
4 moves	-0.051***	0.014	-0.051***	0.016	-0.034***	0.011	-0.051***	0.014
5 moves	-0.044*	0.025	-0.048*	0.028	-0.011	0.018	-0.044*	0.025
6 moves	-0.087**	0.038	-0.081**	0.041	-0.061**	0.028	-0.087**	0.038
7 moves	-0.161**	0.063	-0.181***	0.066	-0.106**	0.043	-0.161**	0.063
8+ moves	-0.106*	0.064	-0.158**	0.070	-0.082*	0.043	-0.105	0.064
# changes in family structure								
<i>(ref. None)</i>								
1 change	-0.107***	0.010	-0.130***	0.011	0.011**	0.005	-0.105***	0.011
2 changes	-0.132***	0.006	-0.143***	0.007	-0.101***	0.005	-0.133***	0.006
3 changes	-0.193***	0.010	-0.202***	0.011	-0.123***	0.007	-0.192***	0.010
4 changes	-0.230***	0.010	-0.240***	0.012	-0.192***	0.008	-0.230***	0.010
5 changes	-0.287***	0.017	-0.293***	0.019	-0.228***	0.011	-0.288***	0.017
6 changes	-0.280***	0.022	-0.284***	0.024	-0.251***	0.015	-0.279***	0.022
7 changes	-0.367***	0.033	-0.356***	0.036	-0.274***	0.021	-0.365***	0.033
8+ changes	-0.464***	0.034	-0.459***	0.036	-0.370***	0.021	-0.462***	0.034
Initial household composition								
<i>(ref. Couple household, same parents)</i>								
Couple household, different parents	-0.039***	0.007	-0.021***	0.008	-0.070***	0.006	-0.039***	0.007
Single-parent household	0.008	0.010	0.005	0.011	-0.117***	0.006	0.008	0.010
Other household type	0.005	0.015	0.026	0.017	-0.092***	0.011	0.005	0.015
Institutionalized	0.016	0.035	0.030	0.039	-0.112***	0.026	0.017	0.035
Constant	-0.460***	0.049	-0.598***	0.098	-0.538***	0.049	-0.460***	0.049
<i>Observations</i>	<i>1,454,577</i>		<i>1,454,577</i>		<i>1,454,577</i>		<i>1,454,577</i>	
<i>R-squared</i>	<i>0.141</i>		<i>0.141</i>		<i>0.141</i>		<i>0.141</i>	

Notes: Coeff.: Coefficients from ordinary least squares regression models of children's educational achievement (standardized *Cito* test score). SE: Standard errors. The models use linked registry data for children living in coupled households at the time of taking the test. Test score data from years 2006 to 2018. Statistical significance: *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$.

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Table S8. Models of overall *Cito* scores, robustness checks

Variables	(16)		(17)	
	Education match		Earnings match	
	Coeff.	SE	Coeff.	SE
Same-sex-parented family	0.125***	0.017	0.121***	0.017
Married or registered couple	-0.007***	0.002	-0.006**	0.002
Child is female	-0.012***	0.002	-0.012***	0.002
Child is adopted	-0.295***	0.021	-0.296***	0.021
Number of children in the household (<i>ref. Only the reference child</i>)				
2 children	0.007**	0.003	0.008**	0.003
3 children	0.012***	0.003	0.013***	0.003
4 children	0.005	0.004	0.006	0.004
5 children	-0.014**	0.006	-0.013**	0.006
6 children	-0.030***	0.010	-0.028***	0.010
7 children	-0.070***	0.017	-0.068***	0.017
8+ children	-0.121***	0.016	-0.117***	0.016
Immigration history of the first parent ¹ (<i>ref. Native Dutch</i>)				
1 st generation immigrant	-0.028***	0.005	-0.035***	0.005
2 nd generation immigrant	-0.008**	0.003	-0.005	0.003
Immigration history of the second parent ² (<i>ref. Native Dutch</i>)				
1 st generation immigrant	0.001	0.004	0.005	0.004
2 nd generation immigrant	-0.001	0.003	-0.003	0.003
Ethnicity of the first parent ¹ (<i>ref. Dutch</i>)				
Moroccan	-0.142***	0.014	-0.125***	0.014
Turkish	-0.207***	0.014	-0.227***	0.014
Surinamese	-0.113***	0.009	-0.125***	0.009
Netherlands Antilles & Aruba	-0.171***	0.013	-0.164***	0.013
Other Non-Western	0.050***	0.008	0.062***	0.008
Ethnicity of the second parent ² (<i>ref. Dutch</i>)				
Moroccan	-0.178***	0.014	-0.192***	0.014
Turkish	-0.234***	0.014	-0.211***	0.014
Surinamese	-0.137***	0.009	-0.122***	0.009
Netherlands Antilles & Aruba	-0.151***	0.013	-0.154***	0.013
Other Non-Western	0.023***	0.007	0.017**	0.007
Birth cohort of the first parent ¹ (<i>ref. <1950</i>)				
1950-54	0.002	0.010	0.002	0.011
1955-59	-0.020**	0.009	-0.004	0.010
1960-64	-0.032***	0.009	-0.008	0.010
1965-69	-0.027***	0.009	-0.003	0.010
1970-74	-0.039***	0.009	-0.021**	0.010
1975-79	-0.023**	0.010	-0.005	0.011
1980-84	-0.015	0.013	0.003	0.013
1985-89	-0.055**	0.024	-0.048*	0.025
1990+	-0.035	0.058	-0.073	0.070
Birth cohort of the second parent ² (<i>ref. <1950</i>)				
1950-54	-0.005	0.031	-0.007	0.019
1955-59	0.006	0.029	-0.040**	0.017
1960-64	-0.011	0.029	-0.066***	0.017
1965-69	-0.030	0.029	-0.085***	0.017
1970-74	-0.067**	0.029	-0.119***	0.017

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1975-79	-0.051*	0.029	-0.103***	0.017
1980-84	-0.026	0.030	-0.077***	0.018
1985-89	-0.038	0.034	-0.083***	0.024
1990+	-0.104	0.065	-0.106**	0.053
Province of residence (<i>ref. Groningen</i>)				
Friesland	-0.016***	0.006	-0.015***	0.006
Drenthe	-0.011*	0.006	-0.011*	0.006
Overijssel	0.050***	0.005	0.051***	0.005
Flevoland	-0.061***	0.007	-0.060***	0.007
Gelderland	0.029***	0.005	0.029***	0.005
Utrecht	0.052***	0.005	0.051***	0.005
Noord-Holland	0.049***	0.005	0.049***	0.005
Zuid-Holland	0.030***	0.005	0.031***	0.005
Zeeland	0.071***	0.007	0.072***	0.007
Noord-Brabant	0.070***	0.005	0.071***	0.005
Limburg	0.133***	0.005	0.134***	0.005
Urbanization level (<i>ref. Level 1, most urbanized</i>)				
Level 2	-0.028***	0.003	-0.027***	0.003
Level 3	-0.009***	0.003	-0.008**	0.003
Level 4	-0.003	0.003	-0.001	0.003
Level 5 (least urbanized)	-0.004	0.004	-0.003	0.004
Year of <i>Cito</i> test completion (<i>ref. 2006</i>)				
2007	0.002	0.004	0.002	0.004
2008	0.006*	0.004	0.007*	0.004
2009	0.015***	0.004	0.015***	0.004
2010	0.019***	0.004	0.019***	0.004
2011	0.019***	0.004	0.019***	0.004
2012	0.023***	0.004	0.022***	0.004
2013	0.023***	0.004	0.022***	0.004
2014	0.018***	0.004	0.018***	0.004
2015	0.010**	0.004	0.009**	0.004
2016	0.006	0.004	0.006	0.004
2017	-0.001	0.004	-0.002	0.004
2018	-0.008	0.005	-0.009*	0.005
Education level of the first parent ¹ (<i>ref. High school and less</i>)				
Associate degree	0.181***	0.007	0.138***	0.008
Professional bachelor	0.278***	0.002	0.216***	0.002
College bachelor	0.359***	0.010	0.284***	0.011
Master's degree	0.398***	0.003	0.342***	0.003
PhD	0.394***	0.005	0.343***	0.005
Missing	0.099***	0.003	0.077***	0.003
Education level of the second parent ² (<i>ref. High school and less</i>)				
Associate degree	0.108***	0.009	0.183***	0.008
Professional bachelor	0.194***	0.003	0.276***	0.002
College bachelor	0.278***	0.013	0.368***	0.012
Master's degree	0.345***	0.003	0.393***	0.003
PhD	0.425***	0.009	0.439***	0.007
Missing	0.053***	0.003	0.067***	0.003
Parental employment (<i>ref. None of the parents employed</i>)				
One parent employed	0.127***	0.006	0.126***	0.006
Both parents employed	0.109***	0.006	0.106***	0.006

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Parental employment				
<i>(ref. None of the parents has a disability)</i>				
One parent has a disability	-0.071***	0.004	-0.073***	0.004
Both parents have a disability	-0.032*	0.018	-0.035*	0.018
Income decile (ref. 1st decile, lowest)				
2 nd decile	-0.002	0.006	-0.001	0.006
3 rd decile	0.010	0.006	0.013**	0.006
4 th decile	0.061***	0.006	0.066***	0.006
5 th decile	0.122***	0.006	0.128***	0.006
6 th decile	0.190***	0.006	0.198***	0.006
7 th decile	0.253***	0.006	0.263***	0.006
8 th decile	0.311***	0.006	0.321***	0.006
9 th decile	0.363***	0.006	0.372***	0.006
10 th decile, highest	0.448***	0.006	0.456***	0.006
Negative income	0.204**	0.010	0.205***	0.010
# residential moves (ref. None)				
1 move	0.016***	0.002	0.016***	0.002
2 moves	0.006	0.004	0.006	0.004
3 moves	-0.012	0.007	-0.011	0.007
4 moves	-0.052***	0.014	-0.051***	0.014
5 moves	-0.045*	0.025	-0.044*	0.025
6 moves	-0.087**	0.038	-0.086**	0.038
7 moves	-0.160**	0.063	-0.160**	0.063
8+ moves	-0.106*	0.064	-0.104	0.064
# changes in family structure (ref. None)				
1 change	-0.106***	0.010	-0.107***	0.010
2 changes	-0.132***	0.006	-0.133***	0.006
3 changes	-0.192***	0.010	-0.193***	0.010
4 changes	-0.229***	0.010	-0.231***	0.010
5 changes	-0.285***	0.017	-0.287***	0.017
6 changes	-0.279***	0.022	-0.281***	0.022
7 changes	-0.364***	0.033	-0.367***	0.033
8+ changes	-0.462***	0.034	-0.465***	0.034
Initial household composition				
<i>(ref. Couple household, same parents)</i>				
Couple household, different parents	-0.040***	0.007	-0.039***	0.007
Single-parent household	0.008	0.010	0.008	0.010
Other household type	0.005	0.015	0.006	0.015
Institutionalized	0.015	0.035	0.017	0.035
Constant	-0.350***	0.031	-0.316***	0.021
<i>Observations</i>	<i>1,454,577</i>		<i>1,454,577</i>	
<i>R-squared</i>	<i>0.141</i>		<i>0.141</i>	

Notes: Coeff.: Coefficients from ordinary least squares regression models of children's educational achievement (standardized *Cito* test score). SE: Standard errors. The models use linked registry data for children living in coupled households at the time of taking the test. Test score data from years 2006 to 2018.

¹For model 16, This category corresponds to the more educated of the two parents. For model 17, this category corresponds to the higher earnings parent.

²For model 16, This category corresponds to the less educated of the two parents. For model 17, this category corresponds to the lower earnings parent.

Statistical significance: *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$.

Table S9. Model of overall *Cito* scores, dominance approach to parameterizing parental characteristics

Variables	Coeff.	SE
	(17)	
Same-sex-parented family	0.126***	0.016
Married or registered couple	-0.007***	0.002
Child is female	-0.013***	0.002
Child is adopted	-0.291***	0.021
Number of children in the household (<i>ref. Only the reference child</i>)		
2 children	0.010***	0.003
3 children	0.019***	0.003
4 children	0.012***	0.004
5 children	-0.009	0.006
6 children	-0.024**	0.010
7 children	-0.061***	0.017
8+ children	-0.113***	0.016
Parental immigration history (<i>ref. Native Dutch</i>)		
1 st generation immigrant	-0.092***	0.007
2 nd generation immigrant	-0.051***	0.006
Parental ethnicity (<i>ref. Dutch</i>)		
Moroccan	-0.259***	0.008
Turkish	-0.378***	0.008
Surinamese	-0.196***	0.011
Netherlands Antilles & Aruba	-0.414***	0.024
Other Non-Western	0.104***	0.008
Parental birth cohort (<i>ref. <1950</i>)		
1950-54	-0.011	0.010
1955-59	-0.034***	0.009
1960-64	-0.052***	0.009
1965-69	-0.091***	0.009
1970-74	-0.112***	0.009
1975-79	-0.090***	0.009
1980-84	-0.070***	0.013
1985-89	-0.097**	0.039
1990+	-0.259**	0.127
Province of residence (<i>ref. Groningen</i>)		
Friesland	-0.015***	0.006
Drenthe	-0.011*	0.006
Overijssel	0.050***	0.005
Flevoland	-0.065***	0.007
Gelderland	0.032***	0.005
Utrecht	0.055***	0.005
Noord-Holland	0.048***	0.005
Zuid-Holland	0.029***	0.005
Zeeland	0.069***	0.007
Noord-Brabant	0.071***	0.005
Limburg	0.131***	0.005
Urbanization level		

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(ref. Level 1, most urbanized)

Level 2	-0.035***	0.003
Level 3	-0.018***	0.003
Level 4	-0.012***	0.003
Level 5 (least urbanized)	-0.013***	0.004

Year of *Cito* test completion

(ref. 2006)

2007	0.001	0.004
2008	0.003	0.004
2009	0.010***	0.004
2010	0.012***	0.004
2011	0.010***	0.004
2012	0.013***	0.004
2013	0.013***	0.004
2014	0.010**	0.004
2015	0.002	0.004
2016	-0.000	0.004
2017	-0.006	0.004
2018	-0.010**	0.005

Parental education level

(ref. High school and less)

Associate degree	0.176***	0.007
Professional bachelor	0.310***	0.002
College bachelor	0.420***	0.009
Master's degree	0.520***	0.002
PhD	0.584***	0.004
Missing	0.116***	0.003

Parent employed

Parent has a disability

Income decile

(ref. 1st decile, lowest)

2 nd decile	-0.013**	0.006
3 rd decile	0.001	0.006
4 th decile	0.050***	0.006
5 th decile	0.110***	0.006
6 th decile	0.178***	0.006
7 th decile	0.242***	0.006
8 th decile	0.304***	0.006
9 th decile	0.363***	0.006
10 th decile, highest	0.461***	0.006
Negative income	0.214***	0.010

residential moves

(ref. None)

1 move	0.019***	0.002
2 moves	0.008**	0.004
3 moves	-0.011	0.007
4 moves	-0.049***	0.014
5 moves	-0.044*	0.025
6 moves	-0.086**	0.038
7 moves	-0.161**	0.063
8+ moves	-0.102	0.064

changes in family structure

(ref. None)

1 change	-0.107***	0.010
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2 changes	-0.137***	0.006
3 changes	-0.198***	0.010
4 changes	-0.240***	0.011
5 changes	-0.295***	0.017
6 changes	-0.290***	0.022
7 changes	-0.373***	0.033
8+ changes	-0.476***	0.034
Initial household composition		
<i>(ref. Couple household, same parents)</i>		
Couple household, different parents	-0.048***	0.007
Single-parent household	-0.001	0.010
Other household type	0.009	0.015
Institutionalized	0.017	0.035
Constant	-0.343***	0.012
<i>Observations</i>	<i>1,454,577</i>	
<i>R-squared</i>	<i>0.138</i>	

Notes: Coeff.: Coefficients from ordinary least squares regression children's educational achievement (standardized *Cito* test score). SE: Standard errors. The model uses linked registry data for children living in coupled households at the time of taking the test. Test score data from years 2006 to 2018. Statistical significance: *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$.

Table S10. Summary statistics of later-life educational outcomes

<i>A. Population of High School Students</i>	Different-sex-parented children		Same-sex-parented children	
	Mean	SD	Mean	SD
<i>Academic outcomes of children</i>				
High school grade retention (%)	18.92		20.14	
Academic high school track choice (%)	23.24		27.55	
<i>Child and family demographics</i>				
Birth year, child	1996.63	3.45	1997.41	3.35
Parents married (%)	91.25		44.72	
Parents registered partners (%)	0.74		15.35	
Child is female (%)	0.50		0.52	
Child is adopted (%)	0.39		0.60	
Number of children in the household	2.49	0.99	2.06	0.90
<i>Characteristics of male/older parent</i>				
Birth year	1963.70	6.00	1962.79	7.54
<i>Immigration background (%)</i>				
Native Dutch	81.93		82.22	
1 st generation immigrant	13.09		11.20	
2 nd generation immigrant	4.98		6.58	
<i>Ethnicity (%)</i>				
Dutch	81.93		82.22	
Moroccan	2.99		0.63	
Turkish	3.15		0.85	
Surinamese	1.39		2.26	
Netherlands Antilles & Aruba	0.43		1.24	
Other non-western countries	3.09		3.00	
Western countries	7.02		9.80	
<i>Education level (%)</i>				
High School or Less	49.08		44.85	
Bachelor's degree	12.43		19.32	
Master's degree	7.18		9.74	
PhD	1.21		1.27	
Education records missing	30.11		24.82	
<i>Characteristics of female/younger parent</i>				
Birth year	1966.32	5.36	1969.46	8.31
<i>Immigration background (%)</i>				
Native Dutch	81.06		81.51	
First-generation immigrant	13.86		10.73	
Second-generation immigrant	5.08		7.76	
<i>Ethnicity (%)</i>				
Dutch	81.06		81.51	
Moroccan	2.96		0.63	
Turkish	3.02		0.94	
Surinamese	1.46		2.34	
Netherlands Antilles & Aruba	0.41		1.38	
Other non-western countries	3.38		2.86	

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Western countries	7.71		10.35	
Education level (%)				
High School or Less	60.25		50.69	
Bachelor's degree	11.06		22.51	
Master's degree	5.56		11.97	
PhD	0.73		1.51	
Education records missing	22.40		13.32	
<i>Other household characteristics</i>				
Province of residence (%)				
Groningen	3.14		4.21	
Friesland	4.25		3.19	
Drenthe	3.23		2.26	
Overijssel	7.69		5.04	
Flevoland	2.70		3.38	
Gelderland	13.27		12.58	
Utrecht	7.43		8.75	
Noord-Holland	14.22		19.57	
Zuid-Holland	20.00		19.24	
Zeeland	2.42		1.87	
Noord-Brabant	15.36		14.83	
Limburg	6.27		5.09	
Urbanization (1=highest, 5=lowest)	3.08	1.26	2.60	1.23
<i>Family socio-economic status</i>				
Parental employment (%)				
Both parents not employed	4.25		4.82	
One parent employed	21.95		21.22	
Both parents employed	73.81		73.97	
Parental disability (%)				
Both parents not disabled	94.39		89.54	
One parent has a disability	5.33		9.88	
Both parents have a disability	0.28		0.58	
Annual gross income, deflated, in €1,000	93.87	90.81	87.81	52.80
<i>Family dynamics</i>				
At least 1 residential move (%)	31.05		41.44	
Total number of residential moves	0.42	0.74	0.68	1.07
At least 1 change of fam. structure (%)	17.38		80.85	
Total number of changes of fam. structure	0.33	0.87	1.70	1.48
Initial household composition (%)				
Couple household, same parents	90.30		34.53	
Couple household, different parents	6.58		51.62	
Single-parent household	2.54		11.28	
Other household types/institutionalized	0.58		2.56	
Share of life in a same-sex household	0.00	0.38	57.36	37.02
<i>Observations</i>		<i>1,808,832</i>	<i>3,634</i>	

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<i>B. Population of young adults</i>	Different-sex-parented children		Same-sex-parented children	
	Mean	SD	Mean	SD
<i>Academic outcomes of children</i>				
High school grade retention (%)	90.68		91.35	
Academic high school track choice (%)	13.70		14.03	
<i>Child and family demographics</i>				
Birth year, child	1992.33	3.73	1993.47	3.65
Parents married (%)	94.01		47.10	
Parents registered partners (%)				
Child is female (%)	0.49		0.51	
Child is adopted (%)	0.19		0.29	
Number of children in the household	2.40	1.05	1.96	0.93
<i>Characteristics of male/older parent</i>				
Birth year	1960.22	6.22	1960.84	7.61
<i>Immigration background (%)</i>				
Native Dutch	79.87		81.47	
1 st generation immigrant	15.61		12.40	
2 nd generation immigrant	4.52		6.13	
<i>Ethnicity (%)</i>				
Dutch	79.87		81.47	
Moroccan	3.03		0.46	
Turkish	3.34		0.96	
Surinamese	1.37		2.28	
Netherlands Antilles & Aruba	0.45		1.61	
Other non-western countries	3.76		3.72	
Western countries	8.19		9.50	
<i>Education level (%)</i>				
High School or Less	40.53		46.85	
Bachelor's degree	10.02		15.44	
Master's degree	5.59		7.15	
PhD	0.93		1.04	
Education records missing	42.92		29.50	
<i>Characteristics of female/younger parent</i>				
Birth year	1962.89	5.58	1968.23	9.32
<i>Immigration background (%)</i>				
Native Dutch	78.84		79.87	
First-generation immigrant	16.62		12.21	
Second-generation immigrant	4.54		7.93	
<i>Ethnicity (%)</i>				
Dutch	78.84		79.87	
Moroccan	2.99		0.51	
Turkish	3.22		1.12	
Surinamese	1.47		2.30	
Netherlands Antilles & Aruba	0.44		1.79	
Other non-western countries	4.11		3.83	
Western countries	8.93		10.58	

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<i>Education level (%)</i>				
High School or Less	50.26		53.23	
Bachelor's degree	8.31	7.60	19.50	17.97
Master's degree	3.85	7.60	9.16	17.97
PhD	0.41		1.37	
Education records missing	37.17		16.76	
<i>Other household characteristics</i>				
<i>Province of residence (%)</i>				
Groningen	4.10		5.41	
Friesland	3.96		3.16	
Drenthe	2.74		2.17	
Overijssel	7.24		5.06	
Flevoland	2.48		2.84	
Gelderland	12.81		11.54	
Utrecht	7.54		8.27	
Noord-Holland	14.35		17.64	
Zuid-Holland	20.96		21.95	
Zeeland	2.15		1.82	
Noord-Brabant	15.08		14.86	
Limburg	6.59		5.27	
Urbanization (1=highest, 5=lowest)	2.90	1.30	2.44	1.21
<i>Family socio-economic status</i>				
<i>Parental employment (%)</i>				
Both parents not employed	9.46		7.79	
One parent employed	23.93		25.17	
Both parents employed	66.61		67.04	
<i>Parental disability (%)</i>				
Both parents not disabled	92.62		86.16	
One parent has a disability	6.92		12.77	
Both parents have a disability	0.45		1.07	
Annual gross income, deflated, in €1,000	89.06	78.10	84.63	49.47
<i>Family dynamics</i>				
At least 1 residential move (%)	37.51		53.71	
Total number of residential moves	0.56	0.90	1.06	1.39
At least 1 change of fam. structure (%)	2.55	15.94	86.53	
Total number of changes of fam. structure	0.33	0.91	1.98	1.60
<i>Initial household composition (%)</i>				
Couple household, same parents	89.96		24.95	
Couple household, different parents	6.25		54.62	
Single-parent household	3.13		17.83	
Other household types/institutionalized	0.66		2.60	
Share of life in a same-sex household	0.00	0.40	51.57	35.68
<i>Observations</i>	<i>2,099,210</i>		<i>3,735</i>	

Notes: Summary statistics of children living in two-parent families when attending secondary school (by age 15 for the first panel, and by age 17 for the second panel) and whose education outcomes were observed between years 2005 and 2017. SD: Standard deviation. In compliance with the individual privacy criteria (each statistic has to correspond to more than 10 cases), we do not present bachelor's degrees split by type, and we bundle together the initial household composition categories "other household types" and "institutionalized".

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Table S11. Models of later-life educational outcomes

Variables	(18)		(19)		(20)		(21)	
	Grade retention		Academic track choice		High school graduation		College enrolment	
	Coeff.	SE	Coeff.	SE	Coeff.	SE	Coeff.	SE
Same-sex-parented family	-0.042	0.043	0.290***	0.043	0.166**	0.070	0.131**	0.056
Married or registered couple	-0.031***	0.010	-0.057***	0.012	0.351***	0.012	0.142***	0.011
Child is female	-0.311***	0.004	0.246***	0.004	0.304***	0.006	0.131***	0.004
Child is adopted	0.067**	0.031	-0.800***	0.036	-1.095***	0.057	-1.102***	0.061
Number of children in the household (<i>ref. Only the reference child</i>)								
2 children	-0.015**	0.007	0.007	0.007	0.163***	0.008	-0.004	0.006
3 children	-0.003	0.007	0.002	0.007	0.185***	0.009	0.052***	0.007
4 children	-0.027***	0.009	-0.038***	0.010	0.151***	0.012	0.025**	0.011
5 children	-0.124***	0.015	-0.155***	0.017	0.097***	0.018	-0.176***	0.020
6 children	-0.277***	0.024	-0.258***	0.027	0.044*	0.026	-0.290***	0.034
7 children	-0.392***	0.040	-0.447***	0.045	0.012	0.039	-0.563***	0.058
8+ children	-0.557***	0.042	-0.662***	0.046	0.000	0.039	-0.748***	0.062
Immigration history of male/older parent (<i>ref. Native Dutch</i>)								
1 st generation immigrant	0.155***	0.012	0.054***	0.012	-0.565***	0.013	-0.125***	0.014
2 nd generation immigrant	0.181***	0.009	0.055***	0.009	-0.140***	0.014	-0.003	0.010
Immigration history of female/younger parent (<i>ref. Native Dutch</i>)								
1 st generation immigrant	0.223***	0.010	0.123***	0.010	-0.796***	0.012	-0.046***	0.012
2 nd generation immigrant	0.197***	0.009	0.041***	0.009	-0.192***	0.014	-0.023**	0.010
Ethnicity of male/older parent (<i>ref. Dutch</i>)								
Moroccan	0.053	0.036	-0.235***	0.043	0.584***	0.050	-0.115*	0.060
Turkish	0.041	0.036	-0.332***	0.042	0.486***	0.050	0.005	0.059
Surinamese	-0.054**	0.023	-0.230***	0.024	0.661***	0.036	-0.008	0.029
Netherlands Antilles & Aruba	-0.176***	0.034	-0.377***	0.037	0.344***	0.046	-0.291***	0.045
Other Non-Western	0.010	0.018	0.210***	0.019	0.395***	0.022	0.250***	0.022
Ethnicity of female/younger parent (<i>ref. Dutch</i>)								
Moroccan	-0.072**	0.036	-0.528***	0.043	0.651***	0.050	-0.430***	0.060
Turkish	-0.027	0.036	-0.433***	0.043	0.566***	0.051	-0.354***	0.060

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Surinamese	-0.026	0.022	-0.321***	0.023	0.574***	0.034	-0.231***	0.028
Netherlands Antilles & Aruba	-0.101***	0.034	-0.408***	0.037	0.410***	0.047	-0.271***	0.044
Other Non-Western	0.067***	0.017	-0.018	0.017	0.175***	0.021	-0.002	0.020
Birth cohort of male/older parent								
<i>(ref. <1950)</i>								
1950-54	-0.013	0.016	-0.055***	0.016	-0.116***	0.014	-0.116***	0.012
1955-59	-0.076***	0.015	-0.123***	0.015	-0.145***	0.014	-0.191***	0.012
1960-64	-0.116***	0.015	-0.178***	0.015	-0.200***	0.015	-0.305***	0.012
1965-69	-0.150***	0.016	-0.200***	0.016	-0.286***	0.017	-0.358***	0.014
1970-74	-0.148***	0.017	-0.290***	0.018	-0.366***	0.021	-0.558***	0.021
1975-79	-0.154***	0.023	-0.295***	0.025	-0.470***	0.034	-0.611***	0.052
1980-84	-0.111***	0.039	-0.235***	0.050	-0.465***	0.059	-0.478***	0.109
1985-89	-0.218***	0.084	-0.486***	0.128	-0.428***	0.097	-0.796***	0.249
1990+	-0.057	0.170	-0.463*	0.254	-0.491***	0.144	-0.738**	0.358
Birth cohort of female/younger parent								
<i>(ref. <1950)</i>								
1950-54	0.208***	0.057	0.118**	0.056	0.015	0.027	-0.050**	0.023
1955-59	0.218***	0.055	-0.011	0.055	-0.119***	0.026	-0.214***	0.022
1960-64	0.192***	0.055	-0.121**	0.055	-0.255***	0.026	-0.401***	0.023
1965-69	0.168***	0.056	-0.186***	0.055	-0.388***	0.028	-0.507***	0.024
1970-74	0.193***	0.056	-0.328***	0.056	-0.495***	0.029	-0.771***	0.026
1975-79	0.225***	0.057	-0.411***	0.057	-0.587***	0.035	-1.022***	0.040
1980-84	0.229***	0.062	-0.503***	0.065	-0.745***	0.057	-1.019***	0.099
1985-89	0.120	0.098	-0.527***	0.123	-1.052***	0.084	-0.849***	0.179
1990+	-0.039	0.156	-0.276	0.201	-1.037***	0.115	-0.895***	0.272
Province of residence								
<i>(ref. Groningen)</i>								
Friesland	-0.075***	0.014	-0.060***	0.015	-0.106***	0.022	-0.881***	0.019
Drenthe	0.057***	0.015	-0.090***	0.016	-0.165***	0.024	-0.527***	0.020
Overijssel	-0.294***	0.013	-0.033**	0.013	-0.093***	0.020	-0.570***	0.014
Flevoland	-0.130***	0.016	-0.102***	0.017	-0.175***	0.024	-0.661***	0.020
Gelderland	-0.177***	0.012	0.051***	0.012	-0.117***	0.018	-0.164***	0.012
Utrecht	-0.257***	0.013	0.072***	0.013	-0.123***	0.020	-0.202***	0.012
Noord-Holland	-0.096***	0.012	0.114***	0.012	-0.228***	0.018	-0.354***	0.011
Zuid-Holland	-0.247***	0.012	0.038***	0.012	-0.207***	0.017	-0.448***	0.011
Zeeland	-0.101***	0.016	0.009	0.017	-0.341***	0.024	-0.755***	0.022
Noord-Brabant	-0.141***	0.012	0.074***	0.012	-0.187***	0.018	-0.361***	0.012

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Limburg	-0.133***	0.013	0.197***	0.013	-0.425***	0.019	-0.220***	0.013
Urbanization level (ref. Level 1, most urbanized)								
Level 2	-0.010	0.007	-0.218***	0.007	-0.077***	0.009	-0.609***	0.007
Level 3	-0.112***	0.008	-0.245***	0.008	-0.143***	0.010	-1.029***	0.008
Level 4	-0.165***	0.008	-0.304***	0.008	-0.140***	0.011	-1.312***	0.008
Level 5 (least urbanized)	-0.201***	0.009	-0.385***	0.009	-0.113***	0.012	-1.367***	0.010
Year of outcome measurement (ref. 2005)								
2006	-0.013	0.009	0.050***	0.009	1.052***	0.013	0.037***	0.012
2007	-0.010	0.009	0.088***	0.009	1.194***	0.014	0.111***	0.012
2008	0.043***	0.009	0.147***	0.009	1.034***	0.013	0.174***	0.012
2009	0.092***	0.009	0.169***	0.009	1.059***	0.013	0.251***	0.012
2010	0.147***	0.009	0.187***	0.009	1.082***	0.013	0.299***	0.012
2011	0.123***	0.009	0.184***	0.010	1.032***	0.013	0.352***	0.012
2012	0.061***	0.009	0.184***	0.010	1.038***	0.013	0.389***	0.012
2013	0.026***	0.010	0.179***	0.010	1.623***	0.014	0.478***	0.012
2014	-0.001	0.010	0.196***	0.010	1.534***	0.014	0.513***	0.012
2015	-0.183***	0.010	0.243***	0.010	1.510***	0.015	0.543***	0.012
2016	-2.467***	0.022	0.489***	0.011	1.512***	0.015	0.652***	0.013
2017	-4.004***	0.138	1.130***	0.023	1.467***	0.015	0.736***	0.013
Education level of male/older parent (ref. High school and less)								
Associate degree	0.139***	0.020	0.242***	0.019	0.175***	0.040	0.188***	0.024
Professional bachelor	0.089***	0.007	0.443***	0.006	0.205***	0.013	0.368***	0.008
College bachelor	0.107***	0.029	0.683***	0.026	0.164***	0.059	0.606***	0.029
Master's degree	-0.017*	0.009	0.862***	0.007	0.236***	0.017	0.735***	0.009
PhD	-0.029	0.019	0.886***	0.016	0.281***	0.042	0.741***	0.018
Missing	-0.019***	0.005	0.189***	0.005	-0.067***	0.007	0.164***	0.006
Education level of female/younger parent (ref. High school and less)								
Associate degree	0.133***	0.024	0.358***	0.022	0.197***	0.055	0.343***	0.028
Professional bachelor	0.084***	0.007	0.620***	0.006	0.195***	0.015	0.511***	0.008
College bachelor	0.121***	0.034	0.953***	0.030	0.060	0.070	0.823***	0.034
Master's degree	-0.070***	0.010	1.025***	0.008	0.194***	0.021	0.860***	0.009
PhD	-0.213***	0.026	1.261***	0.021	0.112*	0.063	1.005***	0.026
Missing	-0.033***	0.006	0.212***	0.006	-0.184***	0.007	0.203***	0.006

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Parental employment								
<i>(ref. None of the parents employed)</i>								
One parent employed	0.051***	0.012	0.241***	0.015	0.743***	0.011	0.310***	0.017
Both parents employed	0.064***	0.013	0.123***	0.016	1.090***	0.012	0.243***	0.018
Parental disability								
<i>(ref. None of the parents has a disability)</i>								
One parent has a disability	0.075***	0.009	-0.188***	0.011	0.066***	0.011	-0.188***	0.011
Both parents have a disability	0.122***	0.037	-0.115**	0.052	0.516***	0.034	-0.029	0.050
Income decile								
<i>(ref. 1st decile, lowest)</i>								
2 nd decile	-0.040***	0.010	-0.031***	0.012	-0.129***	0.013	0.021	0.017
3 rd decile	-0.019*	0.010	0.055***	0.012	-0.040***	0.014	0.052***	0.018
4 th decile	0.018*	0.010	0.205***	0.012	0.052***	0.015	0.174***	0.018
5 th decile	0.066***	0.010	0.344***	0.012	0.148***	0.016	0.306***	0.018
6 th decile	0.100***	0.010	0.491***	0.011	0.233***	0.016	0.467***	0.018
7 th decile	0.111***	0.010	0.640***	0.011	0.305***	0.017	0.634***	0.017
8 th decile	0.120***	0.010	0.789***	0.011	0.355***	0.017	0.801***	0.017
9 th decile	0.123***	0.011	0.971***	0.011	0.372***	0.018	1.005***	0.017
10 th decile, highest	0.035***	0.011	1.282***	0.011	0.251***	0.017	1.314***	0.017
Negative income	0.029	0.021	0.471***	0.022	-2.705***	0.014	-0.285***	0.023
# residential moves								
<i>(ref. None)</i>								
1 move	0.040***	0.005	0.076***	0.005	0.323***	0.007	0.644***	0.005
2 moves	0.117***	0.008	0.098***	0.008	0.309***	0.012	0.739***	0.007
3 moves	0.136***	0.016	0.123***	0.017	0.240***	0.020	0.753***	0.013
4 moves	0.113***	0.030	-0.007	0.036	0.042	0.031	0.642***	0.024
5 moves	0.082	0.050	-0.152**	0.069	-0.091**	0.047	0.543***	0.046
6 moves	0.154*	0.079	-0.048	0.116	-0.391***	0.063	0.305***	0.088
7 moves	0.193	0.119	-0.418*	0.230	-0.641***	0.084	0.155	0.155
8+ moves	0.037	0.128	-0.510**	0.255	-0.801***	0.078	-0.170	0.214
# changes in family structure								
<i>(ref. None)</i>								
1 change	0.103***	0.011	-0.046***	0.012	-0.221***	0.015	0.022	0.014
2 changes	0.065***	0.012	-0.205***	0.014	-0.278***	0.015	-0.306***	0.015
3 changes	0.078***	0.020	-0.394***	0.025	-0.370***	0.025	-0.578***	0.029
4 changes	0.062***	0.021	-0.491***	0.029	-0.433***	0.027	-0.610***	0.033
5 changes	0.086**	0.034	-0.650***	0.050	-0.472***	0.039	-0.805***	0.059

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6 changes	-0.046	0.043	-0.668***	0.066	-0.566***	0.046	-0.810***	0.074
7 changes	0.124**	0.062	-0.794***	0.106	-0.673***	0.064	-1.213***	0.135
8+ changes	-0.114*	0.063	-1.118***	0.122	-0.637***	0.059	-1.157***	0.136
Initial household composition (ref. Couple household, same parents)								
Couple household, different parents	0.066***	0.012	-0.370***	0.014	0.111***	0.017	-0.405***	0.017
Single-parent household	0.031**	0.014	-0.144***	0.016	-0.116***	0.018	-0.368***	0.019
Other household type	0.062**	0.027	-0.063*	0.033	-0.285***	0.031	-0.287***	0.040
Institutionalized	0.147***	0.053	-0.023	0.063	0.009	0.056	-0.420***	0.073
Constant	-1.248***	0.057	-1.973***	0.058	0.855***	0.033	-2.039***	0.030
<i>Observations</i>	1,812,466		1,812,466		2,102,945		2,102,945	
<i>Pseudo R²</i>	0.034		0.125		0.266		0.179	

Notes: Coeff.: Coefficients from logistic regression models of children's later-life educational achievement. SE: Standard errors. The models use linked registry data for children living in coupled households on July 1st prior to their 15th birthdays (columns 1 and 2), and on July 1st prior to their 17th birthdays (columns 3 and 4). Data from years 2005 to 2017. Statistical significance: *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$.

Table S12. Robustness checks for models of later-life educational outcomes, and a model of enrollment at primary schools participating in the *Cito* test

Variables	(22)		(23)		(24)		(25)	
	High school graduation by age 21		College enrolment by age 21		College & prof. bachelor enrollment		Enrollment at participating school	
	Coeff.	SE	Coeff.	SE	Coeff.	SE	Coeff.	SE
Same-sex-parented family	0.155*	0.084	0.149**	0.064	0.166**	0.070	-0.008	0.035
Married or registered couple	0.372***	0.014	0.148***	0.013	0.351***	0.012	1.001***	0.005
Child is female	0.278***	0.007	0.122***	0.005	0.304***	0.006	0.149***	0.003
Child is adopted	-1.168***	0.073	-1.267***	0.082	-1.095***	0.057	-1.612***	0.027
Number of children in the household (ref. Only the reference child)								
2 children	0.154***	0.01	0.001	0.007	0.163***	0.008	-0.026***	0.006
3 children	0.174***	0.011	0.062***	0.008	0.185***	0.009	-0.123***	0.006
4 children	0.131***	0.014	0.040***	0.011	0.151***	0.012	-0.212***	0.008
5 children	0.053***	0.020	-0.165***	0.022	0.097***	0.018	-0.287***	0.012
6 children	0.035	0.029	-0.266***	0.036	0.044*	0.026	-0.382***	0.018
7 children	-0.020	0.043	-0.538***	0.063	0.012	0.039	-0.497***	0.029
8+ children	-0.073*	0.043	-0.704***	0.066	0.000	0.039	-0.581***	0.027
Immigration history of male/older parent (ref. Native Dutch)								
1 st generation immigrant	-0.602***	0.014	-0.123***	0.015	-0.565***	0.013	-0.259***	0.009
2 nd generation immigrant	-0.128***	0.016	0.001	0.011	-0.140***	0.014	-0.021***	0.007
Immigration history of female/younger parent (ref. Native Dutch)								
1 st generation immigrant	-0.859***	0.013	-0.029**	0.013	-0.796***	0.012	-0.265***	0.009
2 nd generation immigrant	-0.205***	0.016	-0.017	0.011	-0.192***	0.014	-0.025***	0.007
Ethnicity of male/older parent (ref. Dutch)								
Moroccan	0.566***	0.058	-0.099	0.068	0.584***	0.050	0.486***	0.027
Turkish	0.446***	0.058	0.001	0.068	0.486***	0.050	0.402***	0.027
Surinamese	0.740***	0.043	0.003	0.032	0.661***	0.036	0.413***	0.019
Netherlands Antilles & Aruba	0.343***	0.053	-0.279***	0.050	0.344***	0.046	0.176***	0.026
Other Non-Western	0.445***	0.025	0.240***	0.024	0.395***	0.022	0.181***	0.015
Ethnicity of female/younger parent (ref. Dutch)								

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Moroccan	0.701***	0.058	-0.486***	0.069	0.651***	0.050	0.398***	0.027
Turkish	0.682***	0.058	-0.350***	0.069	0.566***	0.051	0.261***	0.027
Surinamese	0.702***	0.041	-0.219***	0.031	0.574***	0.034	0.343***	0.018
Netherlands Antilles & Aruba	0.494***	0.054	-0.275***	0.049	0.410***	0.047	0.018	0.026
Other Non-Western	0.217***	0.024	0.003	0.023	0.175***	0.021	-0.013	0.014
Birth cohort of male/older parent								
<i>(ref. <1950)</i>								
1950-54	-0.118***	0.016	-0.115***	0.012	-0.116***	0.014	-0.074***	0.019
1955-59	-0.145***	0.016	-0.187***	0.012	-0.145***	0.014	-0.065***	0.017
1960-64	-0.215***	0.017	-0.310***	0.013	-0.200***	0.015	-0.034**	0.017
1965-69	-0.329***	0.019	-0.377***	0.016	-0.286***	0.017	-0.067***	0.017
1970-74	-0.392***	0.025	-0.568***	0.028	-0.366***	0.021	-0.096***	0.017
1975-79	-0.463***	0.045	-0.477***	0.069	-0.470***	0.034	-0.087***	0.190
1980-84	-0.468***	0.074	-0.426***	0.144	-0.465***	0.059	-0.079***	0.240
1985-89	-0.280**	0.127	-0.926***	0.338	-0.428***	0.097	-0.003	0.042
1990+	-0.379*	0.197	-0.113	0.471	-0.491***	0.144	-0.046	0.091
Birth cohort of female/younger parent								
<i>(ref. <1950)</i>								
1950-54	0.053*	0.028	-0.051**	0.023	0.015	0.027	0.112	0.081
1955-59	-0.072***	0.028	-0.214***	0.023	-0.119***	0.026	0.174**	0.078
1960-64	-0.221***	0.028	-0.403***	0.023	-0.255***	0.026	0.256***	0.078
1965-69	-0.384***	0.030	-0.527***	0.024	-0.388***	0.028	0.206***	0.078
1970-74	-0.484***	0.032	-0.828***	0.029	-0.495***	0.029	0.155**	0.078
1975-79	-0.579***	0.042	-1.026***	0.055	-0.587***	0.035	0.134*	0.078
1980-84	-0.843***	0.073	-0.780***	0.130	-0.745***	0.057	0.116	0.079
1985-89	-1.078***	0.101	-0.693***	0.213	-1.052***	0.084	0.029	0.083
1990+	-1.063***	0.153	-1.401***	0.472	-1.037***	0.115	0.194*	0.117
Province of residence								
<i>(ref. Groningen)</i>								
Friesland	-0.124***	0.026	-0.917***	0.021	-0.106***	0.022	-0.593***	0.012
Drenthe	-0.195***	0.028	-0.551***	0.022	-0.165***	0.024	-0.837***	0.013
Overijssel	-0.092***	0.023	-0.587***	0.015	-0.093***	0.020	-0.157***	0.011
Flevoland	-0.213***	0.028	-0.692***	0.022	-0.175***	0.024	-0.438***	0.013
Gelderland	-0.158***	0.022	-0.182***	0.013	-0.117***	0.018	0.212***	0.011
Utrecht	-0.169***	0.023	-0.214***	0.013	-0.123***	0.020	-0.037***	0.011
Noord-Holland	-0.269***	0.021	-0.370***	0.012	-0.228***	0.018	-0.911***	0.010
Zuid-Holland	-0.245***	0.020	-0.471***	0.011	-0.207***	0.017	-0.304***	0.010

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Zeeland	-0.442***	0.028	-0.812***	0.025	-0.341***	0.024	-0.528***	0.014
Noord-Brabant	-0.253***	0.021	-0.378***	0.013	-0.187***	0.018	0.187***	0.010
Limburg	-0.480***	0.022	-0.229***	0.014	-0.425***	0.019	0.083***	0.012
Urbanization level (<i>ref. Level 1, most urbanized</i>)								
Level 2	-0.028***	0.011	-0.604***	0.007	-0.077***	0.009	-0.494***	0.006
Level 3	-0.078***	0.012	-1.051***	0.008	-0.143***	0.010	-0.309***	0.007
Level 4	-0.046***	0.012	-1.344***	0.009	-0.140***	0.011	-0.164***	0.007
Level 5 (least urbanized)	-0.028**	0.014	-1.387***	0.011	-0.113***	0.012	-0.196***	0.007
Year of outcome measurement (<i>ref. 2005</i>)								
2006	0.650***	0.014	0.037***	0.012	1.052***	0.013	2.000***	0.008
2007	0.851***	0.015	0.111***	0.012	1.194***	0.014	2.020***	0.008
2008	0.805***	0.015	0.175***	0.012	1.034***	0.013	1.996***	0.008
2009	0.844***	0.015	0.254***	0.012	1.059***	0.013	1.914***	0.008
2010	0.895***	0.015	0.304***	0.012	1.082***	0.013	1.909***	0.008
2011	0.964***	0.015	0.358***	0.012	1.032***	0.013	2.014***	0.008
2012	0.991***	0.015	0.397***	0.012	1.038***	0.013	2.152***	0.009
2013	1.167***	0.015	0.489***	0.012	1.623***	0.014	2.285***	0.009
2014	1.093***	0.015	0.526***	0.012	1.534***	0.014	2.393***	0.009
2015	1.069***	0.016	0.559***	0.013	1.510***	0.015	2.410***	0.009
2016					1.512***	0.015	2.036***	0.009
2017					1.467***	0.015	1.706***	0.009
Education level of male/older parent (<i>ref. High school and less</i>)								
Associate degree	0.177***	0.047	0.171***	0.026	0.175***	0.04	0.206***	0.018
Professional bachelor	0.218***	0.016	0.356***	0.009	0.205***	0.013	0.234***	0.006
College bachelor	0.223***	0.072	0.604***	0.032	0.164***	0.059	0.207***	0.028
Master's degree	0.240***	0.021	0.720***	0.010	0.236***	0.017	0.230***	0.007
PhD	0.288***	0.051	0.732***	0.020	0.281***	0.042	0.175***	0.017
Missing	-0.104***	0.008	0.162***	0.006	-0.067***	0.007	-0.045***	0.005
Education level of female/younger parent (<i>ref. High school and less</i>)								
Associate degree	0.233***	0.068	0.332***	0.032	0.197***	0.055	0.310***	0.022
Professional bachelor	0.210***	0.018	0.514***	0.009	0.195***	0.015	0.253***	0.006
College bachelor	0.131	0.084	0.854***	0.038	0.060	0.070	0.232***	0.031
Master's degree	0.197***	0.025	0.859***	0.011	0.194***	0.021	0.314***	0.008

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PhD	0.120	0.078	0.971 ^{***}	0.030	0.112 [*]	0.063	0.386 ^{***}	0.200
Missing	-0.224 ^{***}	0.008	0.204 ^{***}	0.006	-0.184 ^{***}	0.007	-0.100 ^{***}	0.006
Parental employment (<i>ref. None of the parents employed</i>)								
One parent employed	0.743 ^{***}	0.012	0.295 ^{***}	0.019	0.743 ^{***}	0.011	0.286 ^{***}	0.010
Both parents employed	1.106 ^{***}	0.013	0.222 ^{***}	0.019	1.090 ^{***}	0.012	0.380 ^{***}	0.011
Parental disability (<i>ref. None of the parents has a disability</i>)								
One parent has a disability	0.075 ^{***}	0.012	-0.188 ^{***}	0.012	0.066 ^{***}	0.011	-0.027 ^{***}	0.008
Both parents have a disability	0.478 ^{***}	0.038	-0.037	0.054	0.516 ^{***}	0.034	0.161 ^{***}	0.033
Income decile (<i>ref. 1st decile, lowest</i>)								
2 nd decile	-0.089 ^{***}	0.014	0.019	0.019	-0.130 ^{***}	0.013	-0.019	0.011
3 rd decile	0.000	0.016	0.038 [*]	0.020	-0.040 ^{***}	0.014	-0.037 ^{***}	0.012
4 th decile	0.101 ^{***}	0.017	0.164 ^{***}	0.019	0.052 ^{***}	0.015	0.004	0.012
5 th decile	0.191 ^{***}	0.018	0.296 ^{***}	0.019	0.148 ^{***}	0.016	0.053 ^{***}	0.012
6 th decile	0.294 ^{***}	0.019	0.463 ^{***}	0.019	0.233 ^{***}	0.016	0.089 ^{***}	0.012
7 th decile	0.379 ^{***}	0.019	0.630 ^{***}	0.019	0.305 ^{***}	0.017	0.109 ^{***}	0.012
8 th decile	0.424 ^{***}	0.020	0.799 ^{***}	0.019	0.356 ^{***}	0.017	0.121 ^{***}	0.012
9 th decile	0.421 ^{***}	0.020	1.003 ^{***}	0.019	0.372 ^{***}	0.018	0.132 ^{***}	0.012
10 th decile, highest	0.254 ^{***}	0.020	1.311 ^{***}	0.019	0.251 ^{***}	0.017	0.153 ^{***}	0.012
Negative income	-2.577 ^{***}	0.015	-0.260 ^{***}	0.025	-2.705 ^{***}	0.014	-0.275 ^{***}	0.019
# residential moves (<i>ref. None</i>)								
1 move	0.267 ^{***}	0.008	0.676 ^{***}	0.005	0.323 ^{***}	0.007	-0.085 ^{***}	0.004
2 moves	0.227 ^{***}	0.013	0.774 ^{***}	0.008	0.309 ^{***}	0.012	-0.177 ^{***}	0.007
3 moves	0.160 ^{***}	0.023	0.788 ^{***}	0.014	0.240 ^{***}	0.020	-0.252 ^{***}	0.014
4 moves	-0.046	0.035	0.668 ^{***}	0.027	0.042	0.031	-0.351 ^{***}	0.025
5 moves	-0.115 ^{**}	0.055	0.621 ^{***}	0.052	-0.091 [*]	0.047	-0.414 ^{***}	0.042
6 moves	-0.360 ^{***}	0.074	0.325 ^{***}	0.101	-0.391 ^{***}	0.063	-0.450 ^{***}	0.065
7 moves	-0.724 ^{***}	0.095	0.221	0.172	-0.641 ^{***}	0.084	-0.533 ^{***}	0.097
8+ moves	-0.761 ^{***}	0.093	-0.251	0.265	-0.801 ^{***}	0.078	-0.660 ^{***}	0.098
# changes in family structure (<i>ref. None</i>)								
1 change	-0.227 ^{***}	0.018	0.001	0.016	-0.221 ^{***}	0.015	0.056 ^{***}	0.018
2 changes	-0.300 ^{***}	0.018	-0.331 ^{***}	0.017	-0.278 ^{***}	0.015	0.133 ^{***}	0.012
3 changes	-0.400 ^{***}	0.028	-0.619 ^{***}	0.033	-0.370 ^{***}	0.025	0.127 ^{***}	0.019

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4 changes	-0.478***	0.031	-0.665***	0.038	-0.433***	0.027	0.142***	0.019
5 changes	-0.510***	0.045	-0.848***	0.066	-0.472***	0.039	0.035	0.029
6 changes	-0.544***	0.054	-0.907***	0.088	-0.566***	0.046	-0.004	0.036
7 changes	-0.715***	0.073	-1.273***	0.156	-0.673***	0.064	0.054	0.054
8+ changes	-0.742***	0.070	-1.231***	0.163	-0.637***	0.059	-0.013	0.052
Initial household composition								
<i>(ref. Couple household, same parents)</i>								
Couple household, different parents	0.101***	0.020	-0.392***	0.019	0.111***	0.017	0.027**	0.013
Single-parent household	-0.146***	0.020	-0.389***	0.021	-0.116***	0.018	-0.024	0.018
Other household type	-0.306***	0.036	-0.268***	0.045	-0.285***	0.031	-0.049*	0.026
Institutionalized	0.172**	0.070	-0.359***	0.080	0.009	0.056	-1.045***	0.045
Constant	1.278***	0.037	-2.009***	0.032	0.855***	0.033	-2.071***	0.079
Average marginal effect, same-sex parenting dummy	1.21%**	0.631	12.76%**	5.439	9.25%***	0.590	-0.27%	1.172
<i>Observations</i>	<i>1,777,844</i>		<i>1,777,844</i>		<i>2,102,945</i>		<i>2,068,133</i>	
<i>Pseudo R²</i>	<i>0.125</i>		<i>0.180</i>		<i>0.219</i>		<i>0.118</i>	

Notes: Coeff.: Coefficients from logistic regression models of children's later-life educational achievement. SE: Standard errors. The models use linked registry data for children living in coupled households on July 1st prior to their 15th birthdays (columns 1 and 2), and on July 1st prior to their 17th birthdays (columns 3 and 4). Data from years 2005 to 2017. Statistical significance: *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$.