Online Appendix for

THE FAMILY ORIGIN OF THE MATH GENDER GAP IS A WHITE AFFLUENT PHENOMENON

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Table A1 – Sample Statistics, Florida Department of Education

		All			White			Black	
	(1)	(2) St.	(3)	(4)	(5) St.	(6)	(7)	(8) St.	(9)
	Mean	Dev.	N	Mean	Dev.	N	Mean	Dev.	N
Math score	0.161	0.929	703,654	0.340	0.863	489,903	-0.406	0.923	154,253
Female	0.504	0.500	703,654	0.497	0.500	489,903	0.524	0.499	154,253
White	0.696	0.460	703,654	1.000	0.000	489,903	0.000	0.000	154,253
Black	0.219	0.414	703,654	0.000	0.000	489,903	1.000	0.000	154,253
Hispanic	0.043	0.203	703,654	0.000	0.000	489,903	0.000	0.000	154,253
Asian	0.002	0.048	703,654	0.000	0.000	489,903	0.000	0.000	154,253
Other race	0.038	0.192	703,654	0.000	0.000	489,903	0.000	0.000	154,253
Median income zipcode of birth*100,000 (USD)	0.458	0.134	703,654	0.484	0.132	489,903	0.375	0.105	154,253
Free Lunch	0.429	0.495	703,654	0.308	0.462	489,903	0.782	0.413	154,253
Special Education	0.107	0.309	703,654	0.100	0.300	489,903	0.130	0.337	154,253
Age (in months)	153.119	14.616	703,654	152.928	14.624	489,903	154.176	14.691	154,253
Mother married at birth	0.596	0.491	703,654	0.738	0.440	489,903	0.185	0.388	154,253
Mother age at birth of 1st child	24.891	6.007	703,654	26.190	5.845	489,903	21.329	5.065	154,253
Mother high school dropout	0.190	0.393	703,654	0.139	0.346	489,903	0.337	0.473	154,253
Mother graduated high school	0.356	0.479	703,654	0.346	0.476	489,903	0.387	0.487	154,253
Mother attended some college	0.250	0.433	703,654	0.266	0.442	489,903	0.195	0.396	154,253
Mother graduated from college	0.204	0.403	703,654	0.249	0.432	489,903	0.081	0.273	154,253

Notes. The table reports descriptive statistics for the Florida sample used in Table 1 of the main text. The unit of observation is a student-year. The sample includes all students born in Florida between 1994 and 2002, attending a Florida public school grade 6 to 10 in years 2002 to 2011, and for whom we have a score in mathematics. Columns (1) to (3) report mean, st. deviation and sample size for the full sample of students. Columns (4) to (6), and Columns (7) to (9) report the same statistics respectively for the subsample of White students, and for the one of Black students. "Math score" measures students' Florida Comprehensive Assessment Test math score in a given grade (standardized with mean 0 and standard deviation 1 over the population for a given grade and year). The race dummies are taken from the FLODE school records. "Median income in zipcode of birth (USD)" is taken from the 1999 US Census, and it refers to the time of birth of the child. "Free Lunch" is a dummy equal to 1 if the student is enrolled in the Free lunch program in the given academic year. "Special Education" is a dummy equal to 1 if the student is enrolled in the special education program in the given academic year. "Age in months" is the student's age at the beginning of the academic year. "Mother married at birth" is a dummy variable equal to 1 if the mother was married when the child was born. "Mother age at birth of 1st child" is the age (in years) of the mother when she gave birth to her first child. "Mother graduated high school", "Mother attended some college", "Mother graduated from college" are dummy variables with excluded category "Mother is a high school dropout".

Table A2- Sample Statistics, Florida Department of Education

		White			Black	
	(1)	(2)	(3)	(4)	(5)	(6)
Panel A. Sample: Firstborn females	Mean	St. Dev.	N	Mean	St. Dev.	N
Math score	0.482	0.799	50,402	-0.154	0.836	5,455
Boy bias	0.503	0.500	50,402	0.471	0.499	5,455
Median income zipcode of birth*100,000 (USD)	0.499	0.137	50,402	0.396	0.110	5,455
Free Lunch	0.211	0.408	50,402	0.612	0.487	5,455
Special Education	0.058	0.234	50,402	0.071	0.258	5,455
Age (in months)	157.718	16.122	50,402	158.867	16.260	5,455
Mother married at birth	0.875	0.330	50,402	0.480	0.500	5,455
Mother age at birth of 1st child	27.702	5.219	50,402	24.453	5.311	5,455
Mother graduated high school	0.301	0.459	50,402	0.371	0.483	5,455
Mother attended some college	0.283	0.451	50,402	0.285	0.451	5,455
Mother graduated from college	0.339	0.473	50,402	0.202	0.401	5,455
Panel B. Sample: Firstborn males						
Math score	0.527	0.865	52,737	-0.268	0.945	5,002
Girl bias	0.476	0.499	52,737	0.500	0.500	5,002
Median income zipcode of birth*100,000 (USD)	0.502	0.139	52,737	0.391	0.110	5,002
Free Lunch	0.209	0.407	52,737	0.615	0.487	5,002
Special Education	0.119	0.323	52,737	0.150	0.357	5,002
Age (in months)	158.176	16.033	52,737	159.978	16.273	5,002
Mother married at birth	0.880	0.325	52,737	0.478	0.500	5,002
Mother age at birth of 1st child	27.857	5.207	52,737	24.345	5.428	5,002
Mother graduated high school	0.302	0.459	52,737	0.358	0.479	5,002
Mother attended some college	0.273	0.446	52,737	0.298	0.457	5,002
Mother graduated from college	0.351	0.477	52,737	0.201	0.401	5,002

Notes. The table reports descriptive statistics for the Florida sample used in Table 2 and Table 3. The unit of observation is a student-year. The observations shown in this table are all subsamples of the sample shown in Appendix Table 1. In Panel A, Columns (1) to (3) we report mean, st. deviation and number of observations for the subsample of White firstborn females. This corresponds to the sample used in Table 2, Panel A, Column (1). In Panel A, Columns (4) to (6) we report mean, st. deviation and number of observations for the subsample of Black firstborn females. This corresponds to the sample used in Table 2, Panel B, Column (1). In Panel B, Columns (1) to (3) we report mean, st. deviation and number of observations for the subsample of White firstborn males. This corresponds to the sample used in Table 3, Panel A, Column (1). In Panel B, Columns (4) to (6) we report mean, st. deviation and number of observations for the subsample of Black firstborn males. This corresponds to the sample used in Table 3, Panel B, Column (1). "Boy bias" is a dummy variable equal to 1 if the last born in the family is a boy, and all the older children are girls, 0 otherwise. "Girl bias" is a dummy variable equal to 1 if the last born in the family is a girl, and all the older children are boys, 0 otherwise. The rest of the variables is defined as in Appendix Table 1. In our definition of firstborns we always exclude only children.

Description of the Variables

Name of the variable	Description	Source (and when possible and useful name of the raw variable)
Math score	Development scale score in the Mathematics section of the FCAT. The scores are standardized by subtracting the mean test score in the sample used for the analysis and by dividing them by the standard deviation in the sample of girl and boys of families for which we observe completed fertility, for each test grade level-year combination.	Source: FLDOE Created using raw variables: DEV_SCALE_SCORE, SUBTEST_ID, TEST_GRADE_LEVEL, CURRENT_ACADEMIC_YEAR
Boy bias	A dummy equal to 1 if the last born in the family is a boy, and all the older children are girls, 0 otherwise.	Source: birth certificate, FLDOE Created using raw variables: GENDER_CD
Girl bias	A dummy equal to 1 if the last born in the family is a girl, and all the older children are boys, 0 otherwise.	Source: birth certificate, FLDOE Created using raw variables: GENDER_CD
Female	A dummy equal to 1 if the student is a girl, 0 otherwise.	Source: FLDOE Created using raw variables: GENDER_CD
Race dummies (White, Black, Hispanic, Asian, Other race)	A set of dummies equal to 1 if the student is of that ethnicity, 0 otherwise.	Source: FLDOE Created using raw variables: RACIAL_ETHNIC_CD
Median income in zip code of birth, (100,000 of \$)	The zipcode at time of birth (provided by the birth certificates) is matched with median zipcode income in 1999, obtained from the Census Bureau.	Source: birth certificate and Census
Age in months	Assuming the school year starts on September 1st, the variable is calculated as: Academic year*12+8-Student year of birth*12-student month of birth.	Source: FLDOE Created using raw variables: STUDENT_BIRTH_MONTH, STUDENT_BIRTH_YEAR, ENROLLMENT_YEAR
Free or Reduced Priced Lunch	A dummy equal to 1 if the student/year is eligible for free lunch, reduced-price lunch or attends a "provision 2" school and 0 otherwise (either the student did not apply or he/she applied but she/he was not eligible).	Source: FLDOE Created using raw variables: LUNCH_STATUS
Special Education	A dummy variable equal to 1 if the variable if the student is enrolled in the special education program, 0 otherwise. Gifted students are classified as 0.	Source: FLDOE Created using raw variables: PRIMARY_EXCPT_IND
Mother married at time of birth	A dummy variable equal to 1 if the mother is married at time of giving birth.	Source: birth certificate
Mother age at first birth	Age of the mother when the mother's first child was born. The variable was calculated using mother's year and month of birth, and child's year and month of birth.	Source: FLDOE, birth certificate STUDENT_BIRTH_MONTH, STUDENT_BIRTH_YEAR

Mother's educational	We define three dummies for the	Source: birth certificate
dummies	maternal level of education: high school	
	graduate (years of education is equal to	
	12), some college (years of education	
	greater than 12 and strictly smaller than	
	16) and college graduate (years of	
	education greater than or equal to 16).	
Family Free Lunch	A dummy variable equal to 1 if at least	Source: FLDOE
	one child was enrolled in the Free Lunch	Created using raw variables:
	program in at least one year of our	LUNCH STATUS
	sample, 0 otherwise.	_