SUPPLEMENTAL MATERIALS FOR POLITICAL SOLUTIONS TO DISCRIMINATORY BEHAVIOR

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ON DATA TRANSPARENCY

The analyses of this paper are based on administrative registers maintained by Statistics Denmark. Analysis of these data can only be conducted on servers hosted by Statistics Denmark. Statistics Denmark guidelines as well as current legislation entail that these data cannot be made publicly available. The author of the paper will ensure that the analysis data sets as well as any programs needed to replicate the results of this paper are archived for at least five years following the date of publication. In the interest of scientific validation and replication of the analyses of this paper, the Department of Economics and Business Eco-nomics, Aarhus University, will assist researchers who are interested in validating the re-sults of the paper. Statistics Denmark must approve any researcher who is to have access to the data and data access can be obtained from Aarhus only. Replication requests should be directed to the ECONAU data management team at datamanager@econ.au.dk.

The analyses of this paper have specifically been conducted on the NCRR8 server, project number 707810. All calculations were carried out with the software Stata MP version 16.1. Once access is granted to the data in project 707810, the Stata do-file "replication dofile - Political Solutions to Discriminatory Behavior.do" – which is available in the APSR Dataverse at https://doi.org/10.7910/DVN/TNQ7EI – will load all relevant data sets and run all procedures necessary to reproduce all results presented in the paper as well as in the supplemental materials.

ADDITIONAL DESCRIPTIVES AND RESULTS

TABLE A.1. Sample Selection

	Number of Applicants
All 1st priority public high school applications 2009–2012	116,108
Missing middle school ID	-670
Missing background information	-62
Analysis sample	115,376

TABLE A.2. Not enrolled in 1st priority high school, non-Western applicant and reform. Logistic regression.

	(1)	(2)	(3)	(4)
Non-western appl.	1.021***	0.563***	0.876***	0.734***
	(0.125)	(0.125)	(0.082)	(0.061)
Reform	-0.252**	-0.287***	-0.262**	-0.245***
	(0.081)	(0.084)	(0.084)	(0.029)
Non-Western appl. X reform	-0.193*	-0.189*	-0.157†	-0.166*
	(0.084)	(0.083)	(0.085)	(0.067)
Female appl.		0.151***		
		(0.029)		
GPA std. within cohort		-0.679***		
		(0.041)		
GPA missing		0.457**		
		(0.150)		
10th grade appl.		-0.544***		
		(0.060)		
Maternal education				
-Below academy level (m)		ref.		
-Academy level (m)		-0.089***		
		(0.021)		
-BA level (m)		-0.002		
		(0.028)		
-MA or PhD level (m)		0.159***		
		(0.030)		
-Missing (m)		0.172***		
		(0.041)		
Paternal education				
-Below academy level (p)		ref.		
-Academy level (p)		-0.107***		
		(0.028)		
-BA level (p)		0.039		
		(0.033)		
-MA or PhD level (p)		0.046		
		(0.039)		
-Missing (p)		0.133***		
		(0.034)		
Constant	-1.564***	-1.048***		
	(0.093)	(0.085)		
High School FE	No	No	Yes	No
Middle School FE	No	No	No	Yes
Observations	115,376	115,376	115,376	114,403

Note: Coefficients from logistic regression (model 1 and 2) and conditional logistic regression (model 3 and 4). Standard errors clustered at high school level (model 1-3) and middle school level (model 4). All reported variables are indicator variables except standardized GPA. (m) and (p) are short for maternal and paternal respectively. For technical computational reasons the outcome was reversed in the calculations. 973 observations are dropped in model 4 because of all positive or all negative outcomes within middle school. † $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

TABLE A.3. Enrolled in 1ˢᵗ priority high school, non-Western applicant and reform. Full model results.

	(1)	(2)	(3)	(4)	(5)	(6)
Non-western appl.	-0.194***	-0.129***	-0.162***	-0.101***	-0.142***	-0.093***
	(0.030)	(0.028)	(0.020)	(0.019)	(0.019)	(0.018)
Reform	0.033**	0.036**	0.033**	0.036**	0.032**	0.036**
	(0.011)	(0.011)	(0.011)	(0.011)	(0.011)	(0.011)
Non-Western appl. X reform	0.063**	0.060**	0.054**	0.052**	0.049*	0.047*
	(0.021)	(0.020)	(0.020)	(0.019)	(0.019)	(0.019)
Female appl.		-0.020***		-0.018***		-0.017***
		(0.004)		(0.004)		(0.004)
GPA std. within cohort		0.089***		0.094***		0.094***
		(0.004)		(0.004)		(0.004)
GPA missing		-0.073*		-0.078**		-0.097***
		(0.029)		(0.027)		(0.026)
10ᵗʰ grade appl.		0.066***		0.069***		0.071***
		(0.005)		(0.004)		(0.004)
Maternal education						
-Below academy level (m)		ref.		ref.		ref.
-Academy level (m)		0.013***		0.007*		0.008**
		(0.003)		(0.003)		(0.003)
-BA level (m)		0.001		0.002		0.001
		(0.004)		(0.003)		(0.003)
-MA or PhD level (m)		-0.020***		0.001		-0.003
		(0.004)		(0.005)		(0.004)
-Missing (m)		-0.026***		-0.021**		-0.018**
		(0.007)		(0.006)		(0.006)
Paternal education						
-Below academy level (p)		ref.		ref.		ref.
-Academy level (p)		0.014***		0.005		0.006†
		(0.004)		(0.004)		(0.003)
-BA level (p)		-0.005		0.001		0.000
		(0.004)		(0.004)		(0.004)
-MA or PhD level (p)		-0.006		0.007†		0.004
		(0.005)		(0.004)		(0.004)
-Missing (p)		-0.021***		-0.017**		-0.015**
		(0.005)		(0.005)		(0.005)
Constant	0.827***	0.752***	0.825***	0.744***	0.930***	0.866***
	(0.013)	(0.013)	(0.009)	(0.010)	(0.060)	(0.060)
High school FE	No	No	Yes	Yes	Yes	Yes
Middle school FE	No	No	No	No	Yes	Yes
Adjusted r^2	0.02	0.05	0.01	0.05	0.03	0.06
Observations	115,376	115,376	115,376	115,376	115,376	115,376

Note: Coefficients from linear probability models (OLS). Standard errors clustered at high school level in parentheses. All reported variables are indicator variables except standardized GPA. (m) and (p) are short for maternal and paternal respectively. † $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

TABLE A.4. Enrolled in 1ˢᵗ priority high school, non-Western applicant and reform. P-values based on clustering standard errors at different levels. Part A.

	(1)	(2)	(3)	(4)	(5)	(6)
Non-Western appl.	-0.194	-0.129	-0.162	-0.101	-0.142	-0.093
	(<0.001)	(<0.001)	(<0.001)	(<0.001)	(<0.001)	(<0.001)
	[<0.001]	[<0.001]	[<0.001]	[<0.001]	[<0.001]	[<0.001]
	{<0.001}	{0.002}	{<0.001}	{0.001}	{<0.001}	{0.002}
Reform	0.033	0.036	0.033	0.036	0.032	0.036
	(0.004)	(0.002)	(0.004)	(0.001)	(0.004)	(0.001)
	[<0.001]	[<0.001]	[<0.001]	[<0.001]	[<0.001]	[<0.001]
	{0.007}	{0.002}	{0.007}	{0.002}	{0.007}	{0.002}
Non-Western appl. x reform	0.063	0.060	0.054	0.052	0.049	0.047
	(0.004)	(0.004)	(0.008)	(0.007)	(0.013)	(0.012)
	[<0.001]	[<0.001]	[<0.001]	[<0.001]	[<0.001]	[<0.001]
	{0.029}	{0.023}	{0.039}	{0.031}	{0.070}	{0.060}
Female appl.		-0.020		-0.018		-0.017
		(<0.001)		(<0.001)		(<0.001)
		[<0.001]		[<0.001]		[<0.001]
		{0.008}		{0.004}		{0.003}
GPA std. within cohort		0.089		0.094		0.094
		(<0.001)		(<0.001)		(<0.001)
		[<0.001]		[<0.001]		[<0.001]
		{<0.001}		{<0.001}		{<0.001}
GPA missing		-0.073		-0.078		-0.097
		(0.014)		(0.004)		(<0.001)
		[0.001]		[<0.001]		[<0.001]
		{0.029}		{0.015}		{0.003}
10ᵗʰ grade appl.		0.066		0.069		0.071
		(<0.001)		(<0.001)		(<0.001)
		[<0.001]		[<0.001]		[<0.001]
		{<0.001}		{<0.001}		{<0.001}
High school FE	No	No	Yes	Yes	Yes	Yes
Middle school FE	No	No	No	No	Yes	Yes
Observations	115,376	115,376	115,376	115,376	115,376	115,376

Note: Continues on next page.

TABLE A.4. Enrolled in 1ˢᵗ priority high school, non-Western applicant and reform. P-values based on clustering standard errors at different levels. Part B.

	(1)	(2)	(3)	(4)	(5)	(6)
Maternal education						
-Below academy level (m)		ref.		ref.		ref.
-Academy level (m)		0.013		0.007		0.008
		(<0.001)		(0.023)		(0.009)
		[<0.001]		[0.021]		[0.013]
		{<0.001}		{0.091}		{0.061}
-BA level (m)		0.001		0.002		0.001
		(0.867)		(0.504)		(0.727)
		[0.855]		[0.523]		[0.734]
		{0.836}		{0.306}		{0.648}
-MA or PhD level (m)		-0.020		0.001		-0.003
		(<0.001)		(0.812)		(0.525)
		[<0.001]		[0.791]		[0.522]
		{<0.001}		{0.832}		{0.522}
-Missing (m)		-0.026		-0.021		-0.018
		(<0.001)		(0.001)		(0.003)
		[<0.001]		[0.004]		[0.009]
		{0.001}		{0.011}		{0.024}
Paternal education						
-Below academy level (p)		ref.		ref.		ref.
-Academy level (p)		0.014		0.005		0.006
		(<0.001)		(0.145)		(0.092)
		[<0.001]		[0.093]		[0.057]
		{<0.001}		{0.154}		{0.061}
-BA level (p)		-0.005		0.001		0.000
		(0.253)		(0.810)		(0.912)
		[0.210]		[0.800]		[0.909]
		{0.278}		{0.816}		{0.908}
-MA or PhD level (p)		-0.006		0.007		0.004
		(0.213)		(0.094)		(0.335)
		[0.141]		[0.098]		[0.348]
		{0.160}		{0.084}		{0.309}
-Missing (p)		-0.021		-0.017		-0.015
		(<0.001)		(0.001)		(0.003)
		[<0.001]		[<0.001]		[0.001]
		{<0.001}		{0.001}		{0.001}
High school FE	No	No	Yes	Yes	Yes	Yes
Middle school FE	No	No	No	No	Yes	Yes
Observations	115,376	115,376	115,376	115,376	115,376	115,376

Note: Coefficients from linear probability models (OLS). P-values based on standard errors clustered at high school level in (parentheses). P-values based on standard errors clustered at middle school level in [brackets]. P-values based on standard errors clustered at allocation committee level in {braces}. All reported variables are indicator variables. Covariates included are standardized GPA and GPA missing indicator, indicators for parental education as well as indicators for female applicant and grade of application (9ᵗʰ or 10ᵗʰ grade).

TABLE A.5. Applying for oversubscribed high schools.

	(1)	(2)
Non-western appl.	-0.032	-0.006
	(0.057)	(0.052)
Reform	-0.018**	-0.016*
	(0.007)	(0.007)
Non-Western appl. X reform	0.001	0.000
	(0.018)	(0.018)
Female appl.		-0.002
		(0.009)
GPA std. within cohort		0.031**
		(0.010)
GPA missing		-0.022
		(0.054)
10th grade appl.		0.012
		(0.024)
Maternal education		
-Below academy level (m)		ref.
-Academy level (m)		-0.019*
		(0.009)
-BA level (m)		-0.002
		(0.011)
-MA or PhD level (m)		0.067**
		(0.022)
-Missing (m)		0.020†
		(0.010)
Paternal education		
-Below academy level (p)		ref.
-Academy level (p)		-0.031**
		(0.011)
-BA level (p)		0.029*
		(0.012)
-MA or PhD level (p)		0.047*
		(0.023)
-Missing (p)		0.008
		(0.010)
Constant	0.452***	0.424***
	(0.051)	(0.054)
Adjusted r^2	0.00	0.01
Observations	115,376	115,376

Note: Coefficients from linear probability models (OLS). Standard errors clustered at high school level in parentheses. All reported variables are indicator variables except standardized GPA. (m) and (p) are short for maternal and paternal respectively. † $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

TABLE A.6. Enrolled in 1ˢᵗ priority high school, placebo test using female applicant and reform as main variables.

	(1)	(2)	(3)	(4)	(5)	(6)
Female appl.	-0.009	-0.022**	-0.010	-0.021**	-0.008	-0.018**
	(0.007)	(0.007)	(0.006)	(0.007)	(0.006)	(0.006)
Reform	0.037**	0.040**	0.035**	0.039**	0.035**	0.039**
	(0.013)	(0.013)	(0.013)	(0.013)	(0.013)	(0.013)
Female appl. X reform	0.002	0.002	0.003	0.003	0.001	0.002
	(0.006)	(0.005)	(0.005)	(0.005)	(0.005)	(0.005)
Non-western appl.		-0.082***		-0.060***		-0.056***
		(0.016)		(0.009)		(0.008)
GPA std. within cohort		0.089***		0.094***		0.094***
		(0.004)		(0.004)		(0.004)
GPA missing		-0.073*		-0.077**		-0.096***
		(0.029)		(0.027)		(0.026)
10ᵗʰ grade appl.		0.066***		0.068***		0.070***
		(0.005)		(0.004)		(0.004)
Maternal education						
-Below academy level (m)		ref.		ref.		ref.
-Academy level (m)		0.013***		0.007*		0.008*
		(0.003)		(0.003)		(0.003)
-BA level (m)		0.001		0.002		0.001
		(0.004)		(0.003)		(0.003)
-MA or PhD level (m)		-0.020***		0.001		-0.003
		(0.004)		(0.005)		(0.004)
-Missing (m)		-0.027***		-0.021***		-0.019**
		(0.007)		(0.006)		(0.006)
Paternal education						
-Below academy level (p)		ref.		ref.		ref.
-Academy level (p)		0.014***		0.005		0.006†
		(0.004)		(0.004)		(0.003)
-BA level (p)		-0.005		0.001		0.000
		(0.004)		(0.004)		(0.004)
-MA or PhD level (p)		-0.006		0.007†		0.004
		(0.005)		(0.004)		(0.004)
-Missing (p)		-0.021***		-0.017**		-0.016**
		(0.005)		(0.005)		(0.005)
Constant	0.816***	0.749***	0.817***	0.742***	0.924***	0.864***
	(0.014)	(0.014)	(0.011)	(0.012)	(0.059)	(0.060)
High school FE	No	No	Yes	Yes	Yes	Yes
Middle school FE	No	No	No	No	Yes	Yes
Adjusted r^2	0.00	0.05	0.00	0.05	0.03	0.06
Observations	115,376	115,376	115,376	115,376	115,376	115,376

Note: Coefficients from linear probability model (OLS). Standard errors clustered at high school level in parentheses. All reported variables are indicator variables except standardized GPA. (m) and (p) are short for maternal and paternal respectively. † $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

TABLE A.7. Enrolled in 1ˢᵗ priority high school, non-Western applicant and reform. Surplus of demand.

	(1)	(2)	(3)	(4)	(5)	(6)
Non-western appl.	-0.224***	-0.164***	-0.191***	-0.133***	-0.166***	-0.119***
	(0.042)	(0.038)	(0.028)	(0.027)	(0.028)	(0.027)
Reform	0.065**	0.068**	0.066**	0.070**	0.065**	0.069**
	(0.023)	(0.023)	(0.023)	(0.023)	(0.023)	(0.023)
Non-Western appl. X reform	0.112***	0.112***	0.102***	0.102***	0.097***	0.097***
	(0.027)	(0.027)	(0.026)	(0.027)	(0.027)	(0.027)
Female appl.		-0.037***		-0.033***		-0.027***
		(0.008)		(0.007)		(0.007)
GPA std. within cohort		0.099***		0.103***		0.105***
		(0.007)		(0.007)		(0.007)
GPA missing		-0.076		-0.082		-0.092†
		(0.060)		(0.055)		(0.049)
10ᵗʰ grade appl.		0.066***		0.063***		0.069***
		(0.011)		(0.006)		(0.007)
Maternal education						
-Below academy level (m)		ref.		ref.		ref.
-Academy level (m)		0.009		0.002		0.005
		(0.006)		(0.006)		(0.006)
-BA level (m)		-0.005		-0.001		-0.002
		(0.007)		(0.006)		(0.006)
-MA or PhD level (m)		-0.013†		0.007		-0.001
		(0.006)		(0.007)		(0.007)
-Missing (m)		-0.026*		-0.021*		-0.017†
		(0.011)		(0.010)		(0.010)
Paternal education						
-Below academy level (p)		ref.		ref.		ref.
-Academy level (p)		0.007		-0.003		-0.000
		(0.007)		(0.007)		(0.007)
-BA level (p)		-0.003		-0.000		-0.001
		(0.006)		(0.007)		(0.006)
-MA or PhD level (p)		0.008		0.017**		0.012†
		(0.007)		(0.006)		(0.006)
-Missing (p)		-0.037***		-0.031***		-0.030***
		(0.008)		(0.009)		(0.008)
Constant	0.741***	0.669***	0.738***	0.662***	0.828***	0.783***
	(0.024)	(0.023)	(0.018)	(0.021)	(0.095)	(0.088)
High school FE	No	No	Yes	Yes	Yes	Yes
Middle school FE	No	No	No	No	Yes	Yes
Adjusted r^2	0.02	0.05	0.01	0.05	0.05	0.08
Observations	50,207	50,207	50,207	50,207	50,207	50,207

Note: Coefficients from linear probability model (OLS). Standard errors clustered at high school level in parentheses. All reported variables are indicator variables except standardized GPA. (m) and (p) are short for maternal and paternal respectively. $^{\dagger} p < 0.1$, $^{*} p < 0.05$, $^{**} p < 0.01$, $^{***} p < 0.001$.

TABLE A.8. Enrolled in 1ˢᵗ priority high school, non-Western applicant and reform. No surplus of demand.

	(1)	(2)	(3)	(4)	(5)	(6)
Non-western appl.	-0.182***	-0.109***	-0.144***	-0.082***	-0.126***	-0.076***
	(0.034)	(0.029)	(0.026)	(0.024)	(0.024)	(0.022)
Reform	0.004	0.007	0.005	0.009	0.004	0.009
	(0.006)	(0.006)	(0.005)	(0.005)	(0.005)	(0.005)
Non-Western appl. X reform	0.032	0.028	0.023	0.020	0.017	0.015
	(0.028)	(0.025)	(0.025)	(0.023)	(0.025)	(0.023)
Female appl.		-0.008*		-0.007*		-0.005
		(0.003)		(0.003)		(0.003)
GPA std. within cohort		0.087***		0.087***		0.086***
		(0.005)		(0.005)		(0.005)
GPA missing		-0.076**		-0.075**		-0.094***
		(0.024)		(0.024)		(0.026)
10ᵗʰ grade appl.		0.069***		0.072***		0.072***
		(0.004)		(0.004)		(0.005)
Maternal education						
-Below academy level (m)		ref.		ref.		ref.
-Academy level (m)		0.013***		0.012**		0.010**
		(0.003)		(0.003)		(0.003)
-BA level (m)		0.005†		0.005†		0.005
		(0.003)		(0.003)		(0.003)
-MA or PhD level (m)		-0.013**		-0.007		-0.008
		(0.005)		(0.005)		(0.005)
-Missing (m)		-0.022**		-0.020*		-0.018*
		(0.008)		(0.008)		(0.007)
Paternal education						
-Below academy level (p)		ref.		ref.		ref.
-Academy level (p)		0.013***		0.011**		0.009*
		(0.004)		(0.004)		(0.004)
-BA level (p)		-0.000		0.002		0.002
		(0.005)		(0.005)		(0.005)
-MA or PhD level (p)		-0.011†		-0.005		-0.005
		(0.006)		(0.005)		(0.005)
-Missing (p)		-0.007		-0.006		-0.004
		(0.005)		(0.005)		(0.005)
Constant	0.898***	0.813***	0.894***	0.808***	0.967***	0.878***
	(0.005)	(0.008)	(0.005)	(0.006)	(0.025)	(0.023)
High school FE	No	No	Yes	Yes	Yes	Yes
Middle school FE	No	No	No	No	Yes	Yes
Adjusted r²	0.02	0.06	0.01	0.05	0.04	0.07
Observations	65,169	65,169	65,169	65,169	65,169	65,169

Note: Coefficients from linear probability model (OLS). Standard errors clustered at high school level in parentheses. All reported variables are indicator variables except standardized GPA. (m) and (p) are short for maternal and paternal respectively. † $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

TABLE A.9. Enrolled in 1st priority high school, non-Western applicant and reform. Above median surplus of demand.

	(1)	(2)	(3)	(4)	(5)	(6)
Non-western appl.	-0.236***	-0.174***	-0.204***	-0.148***	-0.180***	-0.133***
	(0.044)	(0.037)	(0.031)	(0.030)	(0.030)	(0.028)
Reform	0.087*	0.090*	0.090*	0.094*	0.092*	0.095*
	(0.039)	(0.039)	(0.038)	(0.038)	(0.038)	(0.038)
Non-Western appl. X reform	0.123***	0.121***	0.113***	0.112***	0.109***	0.109***
	(0.025)	(0.026)	(0.027)	(0.028)	(0.026)	(0.028)
Female appl.		-0.048***		-0.042**		-0.034**
		(0.011)		(0.011)		(0.011)
GPA std. within cohort		0.103***		0.108***		0.112***
		(0.011)		(0.011)		(0.011)
GPA missing		-0.168†		-0.161†		-0.174*
		(0.083)		(0.088)		(0.068)
10th grade appl.		0.054**		0.056***		0.064***
		(0.016)		(0.009)		(0.011)
Maternal education						
-Below academy level (m)		ref.		ref.		ref.
-Academy level (m)		0.006		-0.003		0.000
		(0.009)		(0.010)		(0.009)
-BA level (m)		-0.003		0.000		-0.003
		(0.010)		(0.009)		(0.010)
-MA or PhD level (m)		-0.008		0.007		-0.005
		(0.010)		(0.010)		(0.009)
-Missing (m)		-0.026†		-0.021		-0.020
		(0.015)		(0.014)		(0.014)
Paternal education						
-Below academy level (p)		ref.		ref.		ref.
-Academy level (p)		-0.005		-0.012		-0.008
		(0.010)		(0.009)		(0.008)
-BA level (p)		-0.009		-0.008		-0.007
		(0.010)		(0.009)		(0.008)
-MA or PhD level (p)		0.007		0.015†		0.011
		(0.009)		(0.008)		(0.008)
-Missing (p)		-0.041**		-0.038**		-0.039**
		(0.012)		(0.011)		(0.010)
Constant	0.681***	0.624***	0.676***	0.611***	0.697***	0.667***
	(0.036)	(0.035)	(0.029)	(0.034)	(0.130)	(0.119)
High School FE	No	No	Yes	Yes	Yes	Yes
Middle School FE	No	No	No	No	Yes	Yes
Adjusted r^2	0.02	0.05	0.02	0.05	0.07	0.10
Observations	29,083	29,083	29,083	29,083	29,083	29,083

Note: Coefficients from linear probability model (OLS). Standard errors clustered at high school level in parentheses. All reported variables are indicator variables except standardized GPA. (m) and (p) are short for maternal and paternal respectively. † $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

TABLE A.10. Enrolled in 1st priority high school, non-Western applicant and reform. Below median surplus of demand.

	(1)	(2)	(3)	(4)	(5)	(6)
Non-western appl.	-0.145**	-0.087†	-0.147**	-0.086*	-0.132*	-0.087†
	(0.044)	(0.042)	(0.041)	(0.040)	(0.047)	(0.045)
Reform	0.031†	0.035*	0.033*	0.037*	0.029†	0.033*
	(0.016)	(0.016)	(0.015)	(0.015)	(0.015)	(0.015)
Non-Western appl. X reform	0.065	0.069	0.058	0.062	0.063	0.065
	(0.044)	(0.043)	(0.045)	(0.044)	(0.048)	(0.046)
Female appl.		-0.024**		-0.020**		-0.015*
		(0.008)		(0.007)		(0.007)
GPA std. within cohort		0.097***		0.096***		0.095***
		(0.008)		(0.006)		(0.007)
GPA missing		-0.009		-0.008		-0.012
		(0.031)		(0.028)		(0.028)
10th grade appl.		0.071***		0.074***		0.079***
		(0.008)		(0.008)		(0.007)
Maternal education						
-Below academy level (m)		ref.		ref.		ref.
-Academy level (m)		0.012†		0.007		0.009
		(0.007)		(0.005)		(0.005)
-BA level (m)		-0.008		-0.003		-0.001
		(0.007)		(0.006)		(0.007)
-MA or PhD level (m)		-0.015†		0.004		0.001
		(0.008)		(0.011)		(0.011)
-Missing (m)		-0.021		-0.019		-0.011
		(0.013)		(0.013)		(0.016)
Paternal education						
-Below academy level (p)		ref.		ref.		ref.
-Academy level (p)		0.019†		0.010		0.010
		(0.009)		(0.009)		(0.010)
-BA level (p)		0.009		0.010		0.007
		(0.008)		(0.010)		(0.009)
-MA or PhD level (p)		0.013		0.019†		0.012
		(0.009)		(0.010)		(0.010)
-Missing (p)		-0.029*		-0.020		-0.022
		(0.013)		(0.014)		(0.013)
Constant	0.824***	0.737***	0.823***	0.731***	0.999***	0.936***
	(0.012)	(0.018)	(0.012)	(0.020)	(0.103)	(0.099)
High School FE	No	No	Yes	Yes	Yes	Yes
Middle School FE	No	No	No	No	Yes	Yes
Adjusted r^2	0.01	0.04	0.01	0.04	0.05	0.08
Observations	21,124	21,124	21,124	21,124	21,124	21,124

Note: Coefficients from linear probability model (OLS). Standard errors clustered at high school level in parentheses. All reported variables are indicator variables except standardized GPA. (m) and (p) are short for maternal and paternal respectively. † $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

TABLE A.11. Enrolled in 1st priority high school, non-Western applicant and reform. Surplus of demand. Above median gain in seats.

	(1)	(2)	(3)	(4)	(5)	(6)
Non-western appl.	-0.259***	-0.198***	-0.208***	-0.156***	-0.185***	-0.141***
	(0.046)	(0.041)	(0.026)	(0.026)	(0.031)	(0.028)
Reform	0.120*	0.122*	0.120*	0.122*	0.118*	0.120*
	(0.047)	(0.047)	(0.046)	(0.046)	(0.047)	(0.047)
Non-Western appl.X reform	0.113**	0.114**	0.102**	0.104**	0.106**	0.106**
	(0.031)	(0.031)	(0.029)	(0.031)	(0.029)	(0.030)
Female appl.		-0.037**		-0.036*		-0.027*
		(0.013)		(0.013)		(0.012)
GPA std. within cohort		0.099***		0.101***		0.102***
		(0.010)		(0.011)		(0.012)
GPA missing		-0.056		-0.056		-0.057
		(0.038)		(0.036)		(0.044)
10th grade appl.		0.077***		0.060***		0.070***
		(0.010)		(0.009)		(0.007)
Maternal education						
-Below academy level (m)		ref.		ref.		ref.
-Academy level (m)		0.009		0.001		0.005
		(0.007)		(0.009)		(0.008)
-BA level (m)		-0.007		-0.008		-0.008
		(0.010)		(0.009)		(0.008)
-MA or PhD level (m)		-0.021*		0.004		-0.006
		(0.009)		(0.011)		(0.010)
-Missing (m)		-0.008		-0.003		-0.004
		(0.016)		(0.014)		(0.016)
Paternal education						
-Below academy level (p)		ref.		ref.		ref.
-Academy level (p)		0.001		-0.015		-0.012
		(0.010)		(0.009)		(0.009)
-BA level (p)		-0.007		-0.007		-0.005
		(0.008)		(0.006)		(0.006)
-MA or PhD level (p)		0.003		0.015†		0.011
		(0.012)		(0.009)		(0.009)
-Missing (p)		-0.048***		-0.045***		-0.044**
		(0.010)		(0.011)		(0.013)
Constant	0.699***	0.632***	0.695***	0.637***	0.779***	0.750***
	(0.044)	(0.044)	(0.036)	(0.042)	(0.120)	(0.113)
High School FE	No	No	Yes	Yes	Yes	Yes
Middle School FE	No	No	No	No	Yes	Yes
Adjusted r^2	0.03	0.06	0.03	0.06	0.07	0.10
Observations	24,049	24,049	24,049	24,049	24,049	24,049

Note: Coefficients from linear probability model (OLS). Standard errors clustered at high school level in parentheses. All reported variables are indicator variables except standardized GPA. (m) and (p) are short for maternal and paternal respectively. † $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

TABLE A.12. Enrolled in 1st priority high school, non-Western applicant and reform. Surplus of demand. Below median gain in seats.

	(1)	(2)	(3)	(4)	(5)	(6)
Non-western appl.	-0.143***	-0.086*	-0.142**	-0.080†	-0.127**	-0.080†
	(0.036)	(0.037)	(0.040)	(0.040)	(0.038)	(0.039)
Reform	0.018	0.022	0.020	0.025†	0.019	0.024†
	(0.014)	(0.014)	(0.013)	(0.013)	(0.013)	(0.013)
Non-Western appl. X reform	0.077*	0.075*	0.070†	0.067†	0.070	0.069
	(0.035)	(0.035)	(0.037)	(0.037)	(0.041)	(0.042)
Female appl.		-0.037***		-0.031***		-0.026**
		(0.009)		(0.007)		(0.007)
GPA std. within cohort		0.099***		0.105***		0.106***
		(0.010)		(0.008)		(0.009)
GPA missing		-0.084		-0.092		-0.093
		(0.087)		(0.079)		(0.067)
10th grade appl.		0.054**		0.065***		0.073***
		(0.019)		(0.009)		(0.012)
Maternal education						
-Below academy level (m)		ref.		ref.		ref.
-Academy level (m)		0.009		0.003		0.009
		(0.009)		(0.008)		(0.008)
-BA level (m)		-0.003		0.006		0.004
		(0.009)		(0.008)		(0.008)
-MA or PhD level (m)		-0.006		0.010		0.007
		(0.009)		(0.010)		(0.010)
-Missing (m)		-0.044**		-0.038*		-0.028†
		(0.013)		(0.013)		(0.014)
Paternal education						
-Below academy level (p)		ref.		ref.		ref.
-Academy level (p)		0.012		0.008		0.009
		(0.009)		(0.008)		(0.008)
-BA level (p)		0.001		0.006		0.002
		(0.010)		(0.011)		(0.010)
-MA or PhD level (p)		0.013		0.020*		0.013
		(0.009)		(0.009)		(0.010)
-Missing (p)		-0.026†		-0.018		-0.017
		(0.013)		(0.013)		(0.010)
Constant	0.776***	0.702***	0.774***	0.683***	0.865***	0.801***
	(0.020)	(0.020)	(0.010)	(0.019)	(0.154)	(0.142)
High School FE	No	No	Yes	Yes	Yes	Yes
Middle School FE	No	No	No	No	Yes	Yes
Adjusted r^2	0.00	0.03	0.00	0.04	0.06	0.09
Observations	26,158	26,158	26,158	26,158	26,158	26,158

Note: Coefficients from linear probability model (OLS). Standard errors clustered at high school level in parentheses. All reported variables are indicator variables except standardized GPA. (m) and (p) are short for maternal and paternal respectively. $^\dagger\ p < 0.1$, $^*\ p < 0.05$, $^{**}\ p < 0.01$, $^{***}\ p < 0.001$.

TABLE A.13. Enrolled in 1st priority high school, non-Western applicant and reform. Robustness to changes in the study period.

	(1) 2009-2014	(2) 2009-2013	(3) 2009-2012	(4) 2009-2011	(5) 2009-2010
Non-western appl.	-0.097***	-0.095***	-0.093***	-0.091***	-0.081***
	(0.020)	(0.020)	(0.018)	(0.018)	(0.018)
Reform	0.038***	0.038***	0.036**	0.033**	0.026*
	(0.011)	(0.011)	(0.011)	(0.011)	(0.011)
Non-Western appl. X reform	0.055**	0.051*	0.047*	0.048*	0.049*
	(0.020)	(0.020)	(0.019)	(0.020)	(0.023)
Female appl.	-0.019***	-0.017***	-0.017***	-0.013**	-0.011*
	(0.003)	(0.003)	(0.004)	(0.004)	(0.005)
GPA std. within cohort	0.088***	0.091***	0.094***	0.095***	0.105***
	(0.004)	(0.004)	(0.004)	(0.005)	(0.006)
GPA missing	-0.097***	-0.104***	-0.097***	-0.101**	-0.112***
	(0.024)	(0.026)	(0.026)	(0.031)	(0.033)
10th grade appl.	0.072***	0.071***	0.071***	0.068***	0.071***
	(0.004)	(0.004)	(0.004)	(0.005)	(0.006)
Maternal education					
-Below academy level (m)	ref.	ref.	ref.	ref.	ref.
-Academy level (m)	0.005†	0.006*	0.008**	0.008*	0.008*
	(0.003)	(0.003)	(0.003)	(0.004)	(0.004)
-BA level (m)	0.001	0.001	0.001	0.002	0.005
	(0.003)	(0.003)	(0.003)	(0.004)	(0.005)
-MA or PhD level (m)	-0.003	-0.001	-0.003	-0.003	-0.004
	(0.004)	(0.004)	(0.004)	(0.005)	(0.007)
-Missing (m)	-0.016**	-0.018**	-0.018**	-0.019**	-0.018†
	(0.005)	(0.006)	(0.006)	(0.007)	(0.010)
Paternal education					
-Below academy level (p)	ref.	ref.	ref.	ref.	ref.
-Academy level (p)	0.006*	0.007*	0.006†	0.005	0.007
	(0.003)	(0.003)	(0.003)	(0.004)	(0.005)
-BA level (p)	0.000	0.001	0.000	0.002	0.005
	(0.003)	(0.003)	(0.004)	(0.004)	(0.006)
-MA or PhD level (p)	-0.002	0.002	0.004	0.003	0.007
	(0.004)	(0.003)	(0.004)	(0.005)	(0.006)
-Missing (p)	-0.015***	-0.012**	-0.015**	-0.018**	-0.013†
	(0.004)	(0.004)	(0.005)	(0.006)	(0.007)
Constant	0.898***	0.872***	0.866***	0.900***	0.863***
	(0.046)	(0.046)	(0.060)	(0.065)	(0.080)
High School FE	Yes	Yes	Yes	Yes	Yes
Middle School FE	Yes	Yes	Yes	Yes	Yes
Adjusted r^2	0.06	0.06	0.06	0.07	0.07
Observations	176,466	146,589	115,376	85,042	54,892

Note: Coefficients from linear probability model (OLS). Standard errors clustered at high school level in parentheses. All reported variables are indicator variables except standardized GPA. (m) and (p) are short for maternal and paternal respectively. $^\dagger p < 0.1$, $^* p < 0.05$, $^{**} p < 0.01$, $^{***} p < 0.001$.

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TABLE A.14. Enrolled in 1ˢᵗ priority high school, non-Danish applicant and reform.

	(1)	(2)	(3)	(4)	(5)	(6)
Non-Danish appl.	-0.184***	-0.122***	-0.153***	-0.095***	-0.132***	-0.085***
	(0.028)	(0.026)	(0.018)	(0.018)	(0.018)	(0.017)
Reform	0.033**	0.036**	0.033**	0.036**	0.032**	0.036**
	(0.011)	(0.011)	(0.011)	(0.011)	(0.011)	(0.011)
Non-Danish appl. X reform	0.057**	0.055**	0.049**	0.048**	0.043*	0.042*
	(0.019)	(0.019)	(0.018)	(0.017)	(0.018)	(0.017)
Female appl.		-0.020***		-0.018***		-0.017***
		(0.004)		(0.004)		(0.004)
GPA std. within cohort		0.089***		0.094***		0.094***
		(0.004)		(0.004)		(0.004)
GPA missing		-0.071*		-0.076**		-0.095***
		(0.029)		(0.026)		(0.026)
10ᵗʰ grade appl.		0.066***		0.069***		0.071***
		(0.005)		(0.004)		(0.004)
Maternal education						
-Below academy level (m)		ref.		ref.		ref.
-Academy level (m)		0.014***		0.008*		0.008**
		(0.003)		(0.003)		(0.003)
-BA level (m)		0.001		0.003		0.002
		(0.004)		(0.003)		(0.003)
-MA or PhD level (m)		-0.019***		0.002		-0.002
		(0.004)		(0.005)		(0.004)
-Missing (m)		-0.024***		-0.019**		-0.017**
		(0.007)		(0.006)		(0.006)
Paternal education						
-Below academy level (p)		ref.		ref.		ref.
-Academy level (p)		0.014***		0.005		0.006†
		(0.004)		(0.004)		(0.003)
-BA level (p)		-0.005		0.001		0.001
		(0.004)		(0.004)		(0.004)
-MA or PhD level (p)		-0.006		0.007†		0.004
		(0.005)		(0.004)		(0.004)
-Missing (p)		-0.018***		-0.015**		-0.014**
		(0.005)		(0.005)		(0.005)
Constant	0.828***	0.751***	0.826***	0.743***	0.933***	0.867***
	(0.013)	(0.013)	(0.009)	(0.010)	(0.060)	(0.060)
High School FE	No	No	Yes	Yes	Yes	Yes
Middle School FE	No	No	No	No	Yes	Yes
Adjusted r^2	0.02	0.05	0.01	0.05	0.03	0.06
Observations	115,376	115,376	115,376	115,376	115,376	115,376

Note: Coefficients from linear probability model (OLS). Standard errors clustered at high school level in parentheses. All reported variables are indicator variables except standardized GPA. (m) and (p) are short for maternal and paternal respectively. † $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

TABLE A.15. Overview of data sets

Data source: National Agency for It and Learning

Name (English)	Name (Danish)	Variables
Joint application for upper secondary education[1]	Fælles Tilmelding til Ungdomsuddanelserne (FTU)	1st priority high school, middle school ID, 10th grade appl.

Data source: Statistics Denmark Registries

Name (English)	Name (Danish)	Variables
Middle School Grades[2]	Grundskolekarakterer (UDFK)	GPA
The Population[3]	Befolkningen (BEF)	Female, Non-Western, parental ID
Educations[4]	Uddannelser (UDDA)	Maternal education, Paternal Education
Condensed Student Register[5]	Komprimeret elevregister (KOTRE)	High school enrollment, High school completion

Note: Statistics Denmark hosts de-identified micro data sets that can be linked through unique personal identifiers. This table provides an overview of the various data sources and variables that were linked to conduct the analysis in this article. A short description of each data set follows below:

[1] Includes data on applications for upper secondary education.

[2] Includes data on all grades given in the end of middle school.

[3] Includes data on general demographic characteristics including gender, ethnic origin as well as parental ID.

[4] Includes data on highest completed level of education.

[5] Includes data on educational enrollment and completion.