

**Match Pathways and College Graduation:
A Longitudinal and Multidimensional Framework for Academic Mismatch**

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Online Supplement

Table A1. Descriptive statistics for adjustment variables included in the analyses

	<i>Mean</i>	<i>SD</i>
<i>Academic profile</i>		
Composite score (in percentile rank)	50.40	28.13
Bagrut (high school matriculation exam)	98.38	9.17
Psychometric exam (standardized test score)	630.50	81.99
<i>Social background</i>		
Age	22.05	2.15
Gender		
Female	0.53	
Male	0.47	
<i>Immigration & ethnicity</i>		
Arab	0.06	
Jew, 1st generation	0.16	
Jew, 2nd generation, Asia-Africa	0.18	
Jew, 2nd generation, Europe-America	0.19	
Jew, 3rd generation	0.13	
Other	0.28	
<i>SES cluster of locality</i>		
Low (1-4)	0.20	
Mid (5-7)	0.34	
High (8-10)	0.22	
Unknown (residence in a small locality)	0.24	
<i>Contextual factors</i>		
Application year		
1998	0.13	
1999	0.17	
2000	0.17	
2001	0.17	
2002	0.18	
2003	0.17	
<i>University</i>		
Tel Aviv University (TAU)	0.30	
Ben-Gurion University (BGU)	0.27	
Hebrew University of Jerusalem (HUJI)	0.27	
Technion (TECH)	0.16	

Source: Administrative data on all applicants, admitted, and enrolled students at four leading universities in Israel, 1998 to 2003.

Appendix A2. Full estimates for Table 4: Coefficients from models predicting match at each stage

Match stage:	Admission			Enrollment		
Outcome:	Misaligned v. aligned admission	Misaligned v. aligned admission	Overmatched v. matched enrollment	Undermatched v. matched enrollment	Overmatched v. matched enrollment	Undermatched v. matched enrollment
Model number	1	2	3		4	
Model type	Logit		Multinomial logit			
<i>Match pathway indicators</i>						
Application stage (ref. = compatible choice)		2.82***			1.91***	0.16*
Reach choice		(0.03)			(0.04)	(0.06)
Safe choice		-1.51***			-2.36***	2.58***
		(0.03)			(0.07)	(0.03)
Admission stage (ref. = aligned admission)						
Misaligned admission					-1.37***	1.02***
					(0.04)	(0.04)
<i>Adjustment factors</i>						
Gender (man = 0)						
Woman	-0.21***	0.07**	-0.43***	0.54***	-0.32***	0.44***
	(0.02)	(0.02)	(0.02)	(0.02)	(0.03)	(0.03)
SES cluster of locality (mid = 0)						
Low (1-4)	-0.05	-0.01	-0.08*	0.15***	-0.06	0.08*
	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.04)
High (8-10)	-0.08**	-0.03	-0.03	0.10***	0.01	0.02
	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)
Unknown (residence in small locality)		0.06*	-0.14***	0.15***	-0.12***	0.07
	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)
Immigration & ethnicity						
Arab	0.83***	0.46***	0.25***	-0.15*	0.09	0.39***
	(0.04)	(0.05)	(0.05)	(0.06)	(0.06)	(0.07)
Jew, 1st generation	0.36***	0.16***	0.19***	-0.20***	0.10*	-0.10*
	(0.03)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
Jew, 2nd generation, Asia-Africa	0.14***	0.04	0.16***	-0.18***	0.10**	-0.09*
	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.04)
Jew, 2nd generation, Europe-America	0.01	0.06	-0.01	-0.02	0.01	-0.04
	(0.03)	(0.03)	(0.03)	(0.03)	(0.04)	(0.03)
Other	0.11*	-0.06	0.11*	-0.21***	0.02	-0.07

Age		(0.04) -0.07***	(0.05) -0.08***	(0.05) 0.02***	(0.05) 0.04***	(0.05) 0.01	(0.06) 0.04***
Composite score (in percentile rank)		(0.01) -0.01***	(0.01) 0.01***	(0.01) -0.01***	(0.01) 0.05***	(0.01) -0.00	(0.01) 0.05***
Bagrut (high school matriculation exam)		(0.00) -0.00	(0.00) -0.01*	(0.00) -0.09***	(0.00) 0.03***	(0.00) -0.09***	(0.00) 0.04***
Psychometric exam (standardized test score)		(0.00) 0.00*	(0.00) -0.00***	(0.00) -0.00***	(0.00) 0.00	(0.00) -0.01***	(0.00) 0.00***
University (TAU = 0)							
BGU		0.88*** (0.03)	1.56*** (0.04)	-0.98*** (0.04)	0.52*** (0.04)	-0.63*** (0.04)	0.02 (0.04)
HUJI		0.68*** (0.03)	0.84*** (0.03)	-0.10** (0.03)	0.14*** (0.03)	0.08* (0.03)	0.03 (0.04)
TECH		0.78*** (0.04)	0.96*** (0.05)	0.67*** (0.05)	-0.13* (0.05)	0.87*** (0.05)	0.08 (0.06)
Application year (2001 = 0)							
	1998	0.05 (0.04)	0.16*** (0.04)	-0.39*** (0.04)	0.16*** (0.04)	-0.31*** (0.04)	0.16*** (0.05)
	1999	-0.10** (0.03)	-0.15*** (0.04)	-0.30*** (0.04)	0.14*** (0.04)	-0.36*** (0.04)	0.26*** (0.04)
	2000	0.00 (0.03)	0.07 (0.04)	-0.18*** (0.04)	0.07* (0.04)	-0.16*** (0.04)	0.12** (0.04)
	2002	0.09** (0.03)	0.30*** (0.04)	0.03 (0.04)	0.02 (0.04)	0.18*** (0.04)	-0.13** (0.04)
	2003	0.07* (0.03)	0.08* (0.04)	0.02 (0.04)	0.01 (0.04)	-0.00 (0.04)	-0.08 (0.04)
Constant		-2.01*** (0.33)	-0.86* (0.38)	10.23*** (0.37)	-5.70*** (0.58)	11.77*** (0.39)	-9.38*** (0.65)
<i>N</i>		75152	75152	75152		75152	
Pseudo <i>R</i> -sq		0.044	0.258	0.240		0.357	
chi2		3471.18	20202.24	34299.62		51047.48	
df		21.00	23.00	42.00		48.00	

Source: Administrative data on all applicants, admitted, and enrolled students at four universities in Israel, 1998 to 2003.

Note: $N = 75,125$. Standard errors are in parentheses.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

Table A3. Full estimates for Table 5 (Models 1 to 4) and replication of the longitudinal model

Specification:	Main results (Table 5)				Replication analyses (names correspond to Figure A1)			
	Cross-sectional		Longitudinal		Ever graduated	No outliers	Weighted model	Constrained sample
Replication analyses:					Ever graduated as the outcome	Removing students in pathways 13-18 (Table 3)	Weights that project to all admitted applicants	Removing students at the edges of the ability distribution (at the bottom and top decile)
Model #	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<i>Match pathway indicators</i>								
Application stage (reference: compatible choice)								
Reach choice	-0.12***			0.15***	0.21***	0.15***	0.15***	0.12***
	(0.02)			(0.03)	(0.03)	(0.03)	(0.03)	(0.03)
Safe choice	-0.25***			-0.25***	-0.31***	-0.24***	-0.21***	-0.30***
	(0.02)			(0.02)	(0.02)	(0.02)	(0.02)	(0.02)
Admission stage: (reference: aligned admission)								
Misaligned admission		-0.34***		-0.47***	-0.56***	-0.45***	-0.45***	-0.45***
		(0.02)		(0.02)	(0.02)	(0.02)	(0.02)	(0.02)
Enrollment stage (reference: matched enrollment)								
Overmatched enrollment			0.05*	-0.04	-0.02	-0.03	-0.05	-0.05*
			(0.02)	(0.02)	(0.02)	(0.02)	(0.03)	(0.03)
Undermatched enrollment			-0.37***	-0.27***	-0.33***	-0.27***	-0.37***	-0.26***
			(0.02)	(0.02)	(0.02)	(0.02)	(0.03)	(0.03)
<i>Adjustment Factors</i>								
Gender (man = 0)								
Woman	0.25***	0.23***	0.26***	0.26***	0.27***	0.27***	0.27***	0.31***
	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)
SES cluster of locality (mid-SES = 0)								
Low SES	-0.18***	-0.19***	-0.18***	-0.18***	-0.15***	-0.18***	-0.19***	-0.15***
	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.03)	(0.03)
High SES	-0.11***	-0.12***	-0.11***	-0.10***	-0.10***	-0.10***	-0.11***	-0.09***

	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.03)	(0.02)
Unknown	-0.11***	-0.12***	-0.11***	-0.11***	-0.11***	-0.11***	-0.13***	-0.11***
	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.03)	(0.02)
Ethnicity and immigration:								
Arab	-0.46***	-0.38***	-0.44***	-0.42***	-0.35***	-0.42***	-0.39***	-0.46***
	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.05)	(0.05)
Jewish, 1st generation	0.10***	0.13***	0.10***	0.11***	0.14***	0.11***	0.12***	0.07*
	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)
Jewish, 2nd generation, Asia-Africa	0.03	0.05*	0.03	0.03	0.03	0.03	-0.01	0.02
	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.03)	(0.03)
Jewish, 2nd generation, Europe-America	-0.03	-0.03	-0.03	-0.03	-0.04	-0.02	-0.07**	-0.04
	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.03)	(0.03)
Other	0.49***	0.50***	0.49***	0.49***	0.47***	0.49***	0.51***	0.46***
	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
Age	-0.02***	-0.02***	-0.02***	-0.02***	-0.01**	-0.02***	-0.03***	-0.01**
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.01)	(0.01)
Academic indicators								
Composite score (in percentile rank)	-0.00	-0.00**	0.00	0.00	0.01***	0.00	0.00	-0.00
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Bagrut (high school matriculation exam)	0.04***	0.04***	0.04***	0.04***	0.04***	0.04***	0.04***	0.05***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Psychometric exam (standardized test score)	0.00***	0.00***	0.00***	0.00***	0.00**	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Institution (TAU = 0)								
BGU	0.08**	0.08**	0.04	0.14***	0.05	0.16***	0.01	0.21***
	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)
HUJI	-0.17***	-0.16***	-0.19***	-0.14***	-0.22***	-0.13***	-0.16***	-0.12***
	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.03)	(0.03)

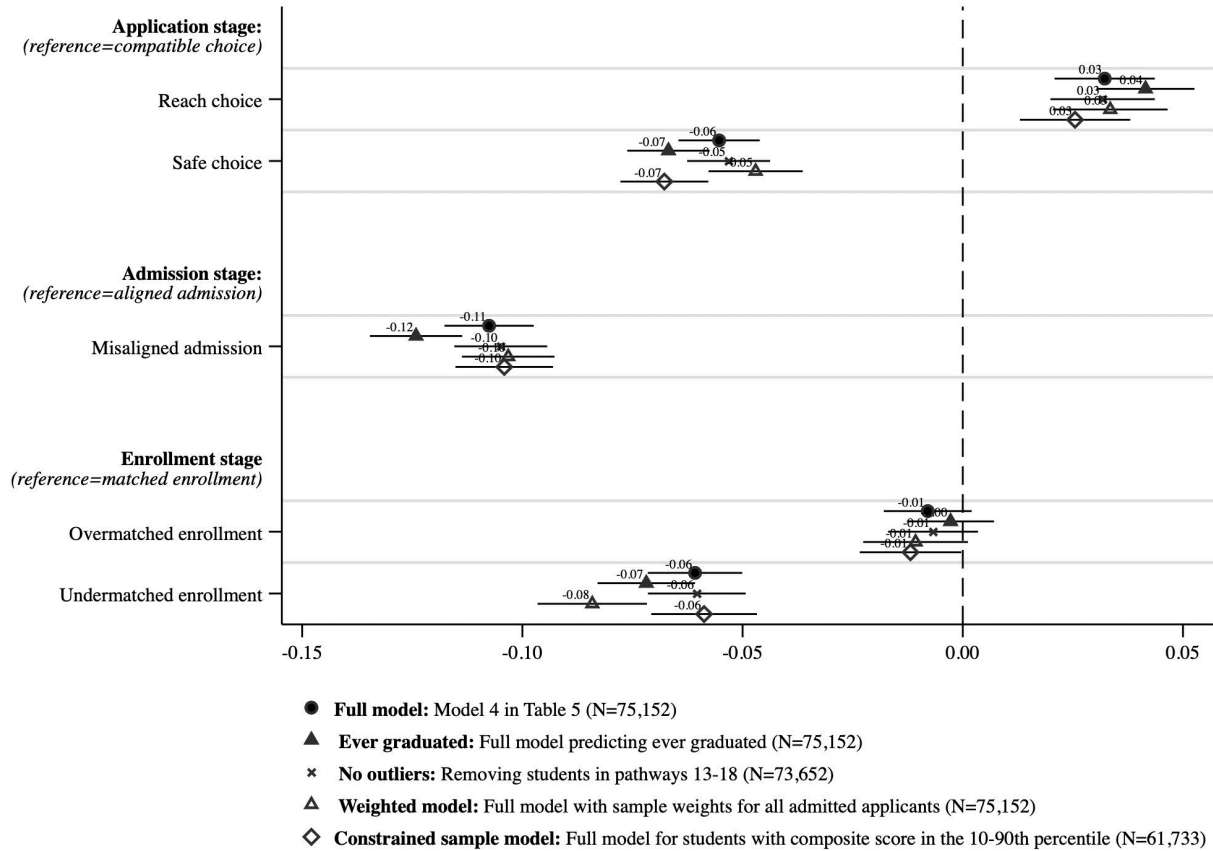
TECH	-1.32*** (0.04)	-1.26*** (0.04)	-1.31*** (0.04)	-1.28*** (0.04)	-0.91*** (0.04)	-1.27*** (0.04)	-1.30*** (0.04)	-1.24*** (0.04)
Year of application (2001 = 0)								
1998	0.03 (0.03)	0.02 (0.03)	0.02 (0.03)	0.03 (0.03)	0.10*** (0.03)	0.03 (0.03)	0.06 (0.03)	0.07* (0.03)
1999	0.05* (0.03)	0.04 (0.03)	0.05* (0.03)	0.04 (0.03)	0.08** (0.03)	0.04 (0.03)	0.06 (0.03)	0.07* (0.03)
2000	-0.07* (0.03)	-0.07** (0.03)	-0.07* (0.03)	-0.07* (0.03)	-0.03 (0.03)	-0.06* (0.03)	-0.07* (0.03)	-0.08** (0.03)
2002	-0.02 (0.03)	-0.02 (0.03)	-0.02 (0.03)	-0.00 (0.03)	-0.07* (0.03)	-0.00 (0.03)	0.01 (0.03)	-0.00 (0.03)
2003	-0.23*** (0.03)	-0.23*** (0.03)	-0.23*** (0.03)	-0.23*** (0.03)	-0.38*** (0.03)	-0.23*** (0.03)	-0.19*** (0.03)	-0.24*** (0.03)
Constant	-4.41*** (0.29)	-4.07*** (0.29)	-4.04*** (0.30)	-3.94*** (0.30)	-2.96*** (0.30)	-3.98*** (0.30)	-3.41*** (0.35)	-5.14*** (0.42)
<i>N</i>	75152	75152	75152	75152	75152	73652	75152	61739
chi2	4336.81	4476.44	4428.42	4939.36	4766.39	4813.83	3325.83	3796.91
df	23.00	22.00	23.00	26.00	26.00	26.00	26.00	26.00

Source: Administrative data on all applicants, admitted, and enrolled students at four leading universities in Israel, 1998 to 2003.

Note: Standard errors are in parentheses. Graphical representation of the replication results is in Figure A1.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

Figure A1. Average marginal effects from replication analyses of the full model (Table 5)



Source: Administrative data from four leading universities in Israel.

Note: The models adjust for students' sociodemographic and academic factors, and for year and institution.

Marginal effects depict the average difference in graduation probabilities between matched (the reference category) and mismatched students at each stage. Full models are presented in Table A3.

Table A4. Replication of Model 4 in Table 5 with application and enrollment mismatch deciles

	B	(SE)
<i>Match pathway indicators</i>		
Application stage, deciles (ref. = decile 5)		
1 (reach)	0.24***	(0.04)
2	0.21***	(0.04)
3	0.12***	(0.04)
4	0.06	(0.04)
6	-0.04	(0.03)
7	-0.09**	(0.04)
8	-0.12**	(0.04)
9	-0.29***	(0.04)
10 (safe)	-0.45***	(0.04)
Admission stage (ref. = aligned admission)		
Misaligned admission	-0.53***	(0.02)
Enrollment stage, deciles (ref. = decile 5)		
1 (overmatched enrollment)	-0.10*	(0.04)
2	-0.08*	(0.04)
3	0.00	(0.04)
4	-0.01	(0.03)
6	0.03	(0.03)
7	0.02	(0.04)
8	-0.01	(0.04)
9	-0.05	(0.04)
10 (undermatched enrollment)	-0.32***	(0.04)
<i>Social & demographic factors</i>		
Gender (Man = 0)		
Woman	0.28***	(0.02)
SES cluster of locality (mid = 0)		
Low (1-4)	-0.17***	(0.02)
High (8-10)	-0.10***	(0.02)
Unknown (residence in a small locality)	-0.10***	(0.02)
Immigration & ethnicity (Jew, 3rd generation = 0)		
Arab	-0.43***	(0.04)
Jew, 1st generation	0.10***	(0.03)
Jew, 2nd generation, Asia-Africa	0.02	(0.02)
Jew, 2nd generation Europe-America	-0.03	(0.02)
Other	0.48***	(0.04)
Age	-0.02***	(0.00)
<i>Academic Factors</i>		
Composite score (in percentile rank)	0.00*	(0.00)
Bagrut (high school matriculation exam)	0.04***	(0.00)
Psychometric exam (standardized test score)	0.00***	(0.00)
<i>Contextual factors</i>		
University (Tau = 0)		
BGU	0.17***	(0.03)
HUJI	-0.12***	(0.02)
TECH	-1.28***	(0.04)
Application year (2001 = 0)		
1998	0.04	(0.03)
1999	0.04	(0.03)
2000	-0.07*	(0.03)
2002	0.01	(0.03)
2003	-0.23***	(0.03)

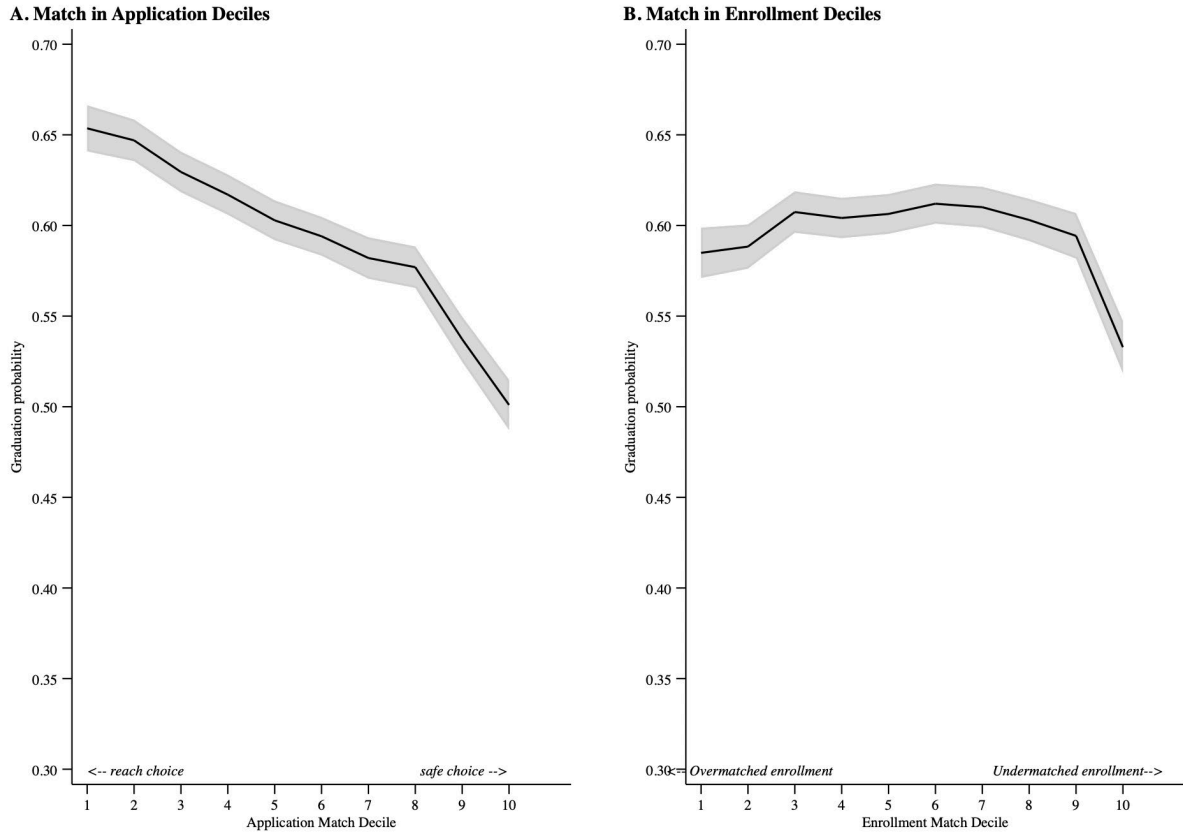
Constant	-3.90***	(0.31)
<i>N</i>	75152	

Source: Administrative data on all applicants, admitted, and enrolled students at four leading universities in Israel, 1998 to 2003

Note: $N = 75,152$. The predicted probabilities from this model are presented in Figure A2.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

Figure A2. Adjusted graduation probabilities by match score decile in application and enrollment; estimated from the model in Table A4



Source: Administrative data from four leading universities in Israel.

Note: Full model specification. The model adjusts for all match states, students' social and academic background, year, and institution. Coefficients are available in Table A2. The predictions are adjusted to reflect the characteristics of the average student.

Table A5. Logit coefficients from a model predicting graduation; the longitudinal model specification with an indicator for the entire match configuration

Model and sample specification: Model #	All sample 1	Weighted model: Weighted to the distribution of admitted applicants 2	Constrained sample model: Estimated only for students with composite scores between the 10th and 90th percentiles 3
<i>Pathway configuration (1. Compatible choice → Aligned admission → Matched enrollment = 0)</i>			
2. Safe choice → Aligned admission → Undermatched enrollment	-0.44*** (0.03)	-0.45*** (0.03)	-0.48*** (0.03)
3. Safe choice → Aligned admission → Matched enrollment	-0.32*** (0.03)	-0.31*** (0.03)	-0.35*** (0.03)
4. Compatible choice → Aligned admission → Overmatched enrollment	-0.03 (0.03)	-0.03 (0.03)	-0.02 (0.03)
5. Compatible choice → Misaligned admission → Matched enrollment	-0.45*** (0.03)	-0.41*** (0.03)	-0.44*** (0.03)
6. Reach choice → Misaligned admission → Matched enrollment	-0.25*** (0.03)	-0.26*** (0.03)	-0.28*** (0.03)
7. Reach choice → Aligned admission → Overmatched enrollment	0.02 (0.04)	0.03 (0.04)	-0.05 (0.05)
8. Reach choice → Misaligned admission → Overmatched enrollment	-0.41*** (0.05)	-0.43*** (0.05)	-0.41*** (0.05)
9. Compatible choice → Aligned admission → Undermatched enrollment	-0.40*** (0.06)	-0.41*** (0.06)	-0.47*** (0.09)
10. Compatible choice → Misaligned admission → Undermatched enrollment	-1.12*** (0.06)	-1.08*** (0.06)	-1.05*** (0.07)
11. Compatible choice → Misaligned admission → Overmatched enrollment	-0.31*** (0.06)	-0.29*** (0.06)	-0.37*** (0.08)
12. Safe choice → Misaligned admission → Matched enrollment	-0.61*** (0.07)	-0.55*** (0.07)	-0.64*** (0.07)
13. Other paths	-0.74*** (0.06)	-0.84*** (0.06)	-0.75*** (0.06)
<i>Adjustment variables</i>			
Gender (man = 0)			
Woman	0.26*** (0.02)	0.26*** (0.02)	0.30*** (0.02)
SES cluster of locality (mid = 0)			
Low (1-4)	-0.18*** (0.02)	-0.19*** (0.03)	-0.15*** (0.03)
High (8-10)	-0.11*** (0.02)	-0.12*** (0.03)	-0.10*** (0.02)
Unknown (residence in small locality)	-0.11***	-0.12***	-0.11***

	(0.02)	(0.03)	(0.02)
Immigration & ethnicity			
Arab	-0.41*** (0.04)	-0.38*** (0.05)	-0.45*** (0.05)
Jew, 1st generation	0.11*** (0.03)	0.13*** (0.03)	0.07* (0.03)
Jew, 2nd generation, Asia-Africa	0.03 (0.02)	-0.01 (0.03)	0.02 (0.03)
Jew, 2nd generation, Europe-America	-0.03 (0.02)	-0.07** (0.03)	-0.05 (0.03)
Other	0.49*** (0.04)	0.51*** (0.04)	0.46*** (0.04)
Age	-0.02*** (0.00)	-0.03*** (0.01)	-0.01** (0.01)
Composite score (in percentile rank)	0.00 (0.00)	0.00 (0.00)	-0.00 (0.00)
Bagrut (high school matriculation exam)	0.04*** (0.00)	0.04*** (0.00)	0.05*** (0.00)
Psychometric exam (standardized test score)	0.00*** (0.00)	0.00*** (0.00)	0.00*** (0.00)
University (TAU = 0)			
BGU	0.14*** (0.03)	-0.00 (0.03)	0.20*** (0.03)
HUJI	-0.14*** (0.02)	-0.15*** (0.03)	-0.13*** (0.03)
TECH	-1.29*** (0.04)	-1.31*** (0.04)	-1.25*** (0.04)
Application year (2000 = 0)			
1998	0.03 (0.03)	0.06 (0.03)	0.06 (0.03)
1999	0.05 (0.03)	0.06* (0.03)	0.07* (0.03)
2001	-0.06* (0.03)	-0.07* (0.03)	-0.08** (0.03)
2002	-0.00 (0.03)	0.00 (0.03)	-0.01 (0.03)
2003	-0.23*** (0.03)	-0.19*** (0.03)	-0.24*** (0.03)
Constant	-4.11*** (0.30)	-3.62*** (0.35)	-5.23*** (0.42)
<i>N</i>	75152	75152	61739

Source: Administrative data on all applicants, admitted, and enrolled students at four leading universities in Israel, 1998 to 2003.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

Table A6. Significance test for differences in the graduation likelihood across pathways (obtained from Model 1 in Table A5)

Pathway configuration #		Comparison path #:													
		1	7	4	6	11	3	9	8	2	5	12			
1	Compatible choice → Aligned admission → Matched enrollment	■													
7	Reach choice → Aligned admission → Overmatched enrollment	■	■												
4	Compatible choice → Aligned admission → Overmatched enrollment	■	■	■											
6	Reach choice → Misaligned admission → Matched enrollment	**	**	**	■										
11	Compatible choice → Misaligned admission → Overmatched enrollment	**	**	**	■	■									
3	Safe choice → Aligned admission → Matched enrollment	**	**	**	■	■	■								
9	Compatible choice → Aligned admission → Undermatched enrollment	**	**	**	**	■	■	■							
8	Reach choice → Misaligned admission → Overmatched enrollment	**	**	**	**	■	■	■	■						
2	Safe choice → Aligned admission → Undermatched enrollment	**	**	**	**	**	**	■	■	■					
5	Compatible choice → Misaligned admission → Matched enrollment	**	**	**	**	**	**	■	■	■	■				
12	Safe choice → Misaligned admission → Matched enrollment	**	**	**	**	**	**	**	**	**	**	**	■		
10	Compatible choice → Misaligned admission → Undermatched enrollment	**	**	**	**	**	**	**	**	**	**	**	**	**	**

Source: Administrative data on all applicants, admitted, and enrolled students at four leading universities in Israel, 1998 to 2003.

Note: $N = 75,152$. Significance tests are based on logit models predicting college graduation as a function of students match pathway, adjusting for all adjustment factors described in the text. Match pathway in these models is estimated as a categorical variable; each category captures a particular pathway (pathways 1 to 12 in Table 3, and one category titled “other” for pathways 13 to 18). The focal pathway (in rows) is selected as the reference category in each model. The significance test pertains to the difference in graduation probabilities between the focal configuration (in rows) and each other configuration (in columns). For ease, non-significant differences are highlighted in gray.

** $p < 0.05$.

Table A7. Coefficients from logistic regression models predicting match pathway group; pathways are grouped by their average graduation likelihoods presented in Figure 2

Outcome (base: all other pathways)	Pathways leading to high graduation rates (#1,4,7)	
	B	(se)
Gender (man = 0)		
Woman	0.83***	(0.01)
Ethnicity (Jewish = 0):		
Arab	0.88***	(0.03)
Unknown	1.18***	(0.04)
SES cluster of student's locality (mid & high = 0)		
Low (1-4)	0.93***	(0.02)
Unknown (residence in small locality)	0.91***	(0.02)
Age	1.02***	(0.00)
Composite score (in percentile rank)	0.99***	(0.00)
Bagrut (high school matriculation exam)	0.97***	(0.00)
Psychometric exam (standardized test score)	1.00***	(0.00)
University (TAU = 0)		
BGU	0.27***	(0.01)
HUJI	0.50***	(0.01)
TECH	0.92*	(0.03)
Application year (2001 = 0)		
1998	0.75***	(0.02)
1999	1.00	(0.03)
2000	0.96	(0.03)
2002	0.83***	(0.02)
2003	0.94*	(0.03)
Observations	73,652	

Source: Administrative data on all applicants, admitted, and enrolled students at four universities in Israel, 1998 to 2003. Unlikely pathways are omitted from the analyses.

Note: Standard errors are in parentheses. Pathways are grouped by their expected graduation likelihoods.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

Appendix A8. Differences in the estimated probability of groups to follow high graduation pathways (Table A7)

	High graduation pathways (#1, 7, 4)
Females vs. Males	-.041**
Arabs vs. Jews	-.029**
Low-SES vs. Mid- & High SES	-.017**

Note: ** indicates the difference is statistically significant. Pathways are grouped by their graduation likelihoods (Figure 2 in the main text). Predictions are adjusted for the probabilities of the average student.