

Supplement to:

Yu, Wei-hsin, Kuo-Hsien Su. 2025. "Evaluation Criteria and Women's Attainment of Elite STEM Education: Evidence from College Admission Records" *Sociological Science* 12: 357-387.

## SUPPLEMENTARY MATERIALS

Table S1: Admission Criteria at NTU by Department and Year

Year	Department	Department (English)	First-round Criteria	Second-Round Criteria (weights)			
			<i>Minimum standardized GSAT score</i>	<i>Dossier</i>	<i>Interview</i>	<i>Major- specific test(s)</i>	<i>GSAT</i>
2022	中國文學系	Chinese Literature	90.5	25%	0%	35%	40%
2022	外國語文學系	Foreign Languages & Literatures	96.7	40%	20%	20%	20%
2022	歷史學系	History	85.0	40%	20%	0%	40%
2022	哲學系	Philosophy	93.3	25%	35%	0%	40%
2022	人類學系	Anthropology	93.3	25%	25%	0%	50%
2022	圖書資訊學系	Library & Information Science	91.7	30%	30%	0%	40%
2022	日本語文學系	Japanese Language & Literature	91.5	20%	30%	0%	50%
2022	戲劇學系(女)	Drama & Theatre A	78.3	20%	30%	0%	50%
2022	戲劇學系(男)	Drama & Theatre B	78.3	20%	30%	0%	50%
2022	數學系	Mathematics	91.1	45%	0%	55%	0%
2022	物理學系	Physics	88.3	45%	0%	55%	0%
2022	化學系	Chemistry	86.0	35%	20%	25%	20%
2022	地質科學系	Geosciences	73.3	40%	20%	0%	40%
2022	心理學系	Psychology	88.3	25%	25%	0%	50%
2022	地理環境資源學系	Geography	82.2	25%	25%	0%	50%
2022	大氣科學系	Atmospheric Sciences	83.3	25%	0%	25%	50%
2022	政治學系政治理論組	Political Science (theory)	83.7	30%	40%	0%	30%
2022	政治學系國際關係組	Political Science (IR)	88.1	30%	40%	0%	30%
2022	政治學系公共行政組	Political Science (Pub. Adm.)	81.5	30%	40%	0%	30%
2022	經濟學系 A 組	Economics A	83.3	30%	30%	0%	40%
2022	經濟學系 B 組	Economics B	84.4	30%	30%	0%	40%
2022	經濟學系 C 組	Economics C	88.9	30%	30%	0%	40%
2022	社會學系	Sociology	97.8	40%	40%	0%	20%
2022	社會工作學系	Social Work	91.7	30%	40%	0%	30%
2022	醫學系	Medicine	96.7	10%	40%	50%	0%
2022	醫學系(公費生)	Medicine (with fellowship)	91.7	10%	40%	50%	0%
2022	牙醫學系	Dentistry	96.7	10%	30%	60%	0%

2022	藥學系	Pharmacy	90.0	30%	20%	20%	30%
2022	醫學檢驗暨生物技術學系	Clinical Laboratory Sciences & Medical Biotechnology	85.6	30%	30%	0%	40%
2022	護理學系	Nursing	69.4	20%	30%	0%	50%
2022	物理治療學系	Physical Therapy	85.0	20%	30%	0%	50%
2022	職能治療學系	Occupation Therapy	80.4	25%	25%	0%	50%
2022	土木工程學系	Civil Engineering	70.0	30%	0%	30%	40%
2022	機械工程學系	Mechanical Engineering	82.2	30%	0%	30%	40%
2022	化學工程學系	Chemical Engineering	85.0	20%	0%	30%	50%
2022	工程科學及海洋工程學系	Engineering Science & Ocean Engineering	80.0	50%	0%	50%	0%
2022	材料科學與工程學系	Materials Science & Engineering	90.8	25%	0%	25%	50%
2022	醫學工程學系	Biomedical Engineering	90.0	25%	0%	25%	50%
2022	農藝學系	Agronomy	80.3	25%	35%	0%	40%
2022	生物環境系統工程學系	Bioenvironmental Systems Engineering	81.7	30%	40%	0%	30%
2022	農業化學系	Agricultural Chemistry	79.3	25%	25%	0%	50%
2022	森林環境暨資源學系	Forestry & Resource Conservation	76.0	20%	30%	0%	50%
2022	動物科學技術學系	Animal Science & Technology	82.2	35%	0%	45%	20%
2022	農業經濟學系	Agricultural Economics	80.0	25%	35%	0%	40%
2022	園藝暨景觀學系	Horticulture & Landscape Architecture	63.3	25%	25%	0%	50%
2022	獸醫學系	Veterinary Medicine	86.7	25%	35%	0%	40%
2022	生物產業傳播暨發展學系	Bio-industry Communication & Development	91.7	25%	25%	0%	50%
2022	生物機電工程學系	Biomedical Engineering	88.2	25%	25%	0%	50%
2022	昆蟲學系	Entomology	81.3	40%	25%	25%	10%
2022	植物病理與微生物學系	Plant Pathology & Microbiology	78.7	30%	15%	15%	40%
2022	工商管理學系企業管理組	Business Administration A	88.3	30%	30%	0%	40%
2022	工商管理學系科技管理組	Business Administration B	85.0	30%	30%	0%	40%

2022	會計學系	Accounting	85.7	25%	25%	0%	50%
2022	財務金融學系	Finance	86.7	30%	30%	0%	40%
2022	國際企業學系	International Business	88.3	30%	30%	0%	40%
2022	資訊管理學系	Information Management	90.0	30%	30%	0%	40%
2022	公共衛生學系	Public Health	84.4	30%	40%	0%	30%
2022	電機工程學系	Electrical Engineering	95.6	50%	0%	30%	20%
2022	資訊工程學系	Computer Science & Information Engineering	96.1	40%	0%	40%	20%
2022	資訊工程學系 (APCS 組)	Computer Science & Information Engineering (APCS)	66.2	60%	0%	20%	20%
2022	法律學系法學組	Law A	96.7	30%	30%	0%	40%
2022	法律學系司法組	Law B	95.0	30%	30%	0%	40%
2022	法律學系財經法學組	Law C	96.7	30%	30%	0%	40%
2022	生命科學系	Life Science	81.7	35%	20%	25%	20%
2022	生化科技學系	Biochemical Science & Technology	79.3	50%	0%	0%	50%
2023	中國文學系	Chinese Literature	88.6	25%	0%	35%	40%
2023	外國語文學系	Foreign Languages & Literatures	95.0	40%	20%	20%	20%
2023	歷史學系	History	83.3	40%	0%	20%	40%
2023	哲學系	Philosophy	93.3	25%	35%	0%	40%
2023	人類學系	Anthropology	88.3	25%	25%	0%	50%
2023	圖書資訊學系	Library & Information Science	92.5	30%	30%	0%	40%
2023	日本語文學系	Japanese Language & Literature	85.5	20%	30%	0%	50%
2023	戲劇學系(女)	Drama & Theatre A	81.7	20%	30%	0%	50%
2023	戲劇學系(男)	Drama & Theatre B	73.3	20%	30%	0%	50%
2023	數學系	Mathematics	86.7	45%	0%	55%	0%
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2023	政治學系政治理論組	Political Science (theory)	82.4	30%	40%	0%	30%
2023	政治學系國際關係組	Political Science (IR)	81.7	30%	40%	0%	30%

2023	政治學系公共行政組	Political Science (Pub. Adm.)	81.3	30%	40%	0%	30%
2023	經濟學系 A 組	Economics A	81.7	30%	30%	0%	40%
2023	經濟學系 B 組	Economics B	84.4	30%	30%	0%	40%
2023	經濟學系 C 組	Economics C	86.7	30%	30%	0%	40%
2023	社會學系	Sociology	95.6	40%	40%	0%	20%
2023	社會工作學系	Social Work	83.3	30%	40%	0%	30%
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2023	農藝學系	Agronomy	73.3	25%	35%	0%	40%
2023	生物環境系統工程學系	Bioenvironmental Systems Engineering	75.0	30%	40%	0%	30%
2023	農業化學系	Agricultural Chemistry	80.0	25%	25%	0%	50%
2023	森林環境暨資源學系	Forestry & Resource Conservation	69.9	20%	30%	0%	50%
2023	動物科學技術學系	Animal Science & Technology	75.6	35%	0%	45%	20%
2023	農業經濟學系	Agricultural Economics	82.2	25%	35%	0%	40%
2023	園藝暨景觀學系	Horticulture & Landscape Architecture	76.7	25%	25%	0%	50%
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2023	生物產業傳播暨發展學系	Bio-industry Communication & Development	82.3	25%	25%	0%	50%
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2023	財務金融學系	Finance	91.1	30%	30%	0%	40%
2023	國際企業學系	International Business	90.0	30%	30%	0%	40%
2023	資訊管理學系	Information Management	88.3	30%	30%	0%	40%
2023	資訊管理學系(資安組)	Information Management B	80.0	30%	30%	0%	40%
2023	公共衛生學系	Public Health	84.4	30%	40%	0%	30%
2023	電機工程學系	Electrical Engineering	97.8	50%	0%	30%	20%
2023	資訊工程學系	Computer Science & Information Engineering	98.0	50%	0%	30%	20%
2023	資訊工程學系(APCS組)	Computer Science & Information Engineering (APCS)	89.7	60%	0%	20%	20%
2023	資訊工程學系(資安組)	Computer Science & Information Engineering (Security)	95.9	60%	0%	20%	20%
2023	法律學系法學組	Law A	93.3	30%	30%	0%	40%
2023	法律學系司法組	Law B	93.3	30%	30%	0%	40%
2023	法律學系財經法學組	Law C	95.0	30%	30%	0%	40%
2023	生命科學系	Life Science	81.7	35%	20%	25%	20%
2023	生化科技學系	Biochemical Science & Technology	80.0	50%	0%	0%	50%

Note: The standardized GSAT score is calculated based on each department's required GSAT subjects and methods of weighting the different subject scores (details in Footnote 6 in the article). Because departments could choose different subjects and weighting methods, even after standardization the scores are not comparable between departments.

Table S2: Descriptive statistics of the analytic sample

Variables	Female applications		Male applications	
	Mean/percentage	S.D.	Mean/Percentage	S.D.
Dossier score	83.71	5.78	82.35	6.67
Interview score	84.30	9.70	82.02	11.18
Specialized test score	64.53	18.00	62.78	17.97
GSAT standardized score (0-100)	90.36	8.05	91.22	7.97
Admission outcome (%):				
Yes	46.71		37.31	
No	53.29		62.69	
Admission outcome compared to using standardized test only (%):				
Positive change	18.23		13.39	
Negative change	13.10		16.94	
Always admitted	28.48		23.92	
Always rejected	40.19		45.75	
<i>Applicant/application characteristics</i>				
Graduated in an earlier year (%):				
Yes	8.02		8.78	
No	91.98		91.22	
Log estimated family home worth per ping (NT\$10,000)	5.88	0.69	5.90	0.67
Proportion college graduates (ages 25-29) nearby	0.72	0.06	0.72	0.06
High school ranking	18.87	22.57	16.68	22.93
High school type (%):				
Private	19.76		19.17	
Public	80.24		80.83	
High school GPA (0-100)	84.32	4.76	82.56	6.02
Dossier page length	135.51	70.10	110.57	61.11
Number of applications submitted to NTU departments (%):				
One	18.70		18.06	
Two	20.17		22.45	
Three	22.24		23.84	
Four	17.02		17.06	
Five	21.87		18.60	
Application year (%):				
2022	52.22		49.24	
2023	47.77		50.76	
N	3,466		5,012	

Note: The analytic sample contains 8,478 applications, but the sample size is smaller for the dossier score (8,396), interview score (5,331), specialized test score (3,713), and high school GPA (7,924), because we exclude observations not applicable (e.g., no interview required) or with the values being 0 or missing. All numbers followed by standard deviation are the mean value; the other numbers are in percentage.

Table S3: Department Fixed Effects Models Predicting Dossier Scores

	Model 1	Model 2	Model 3	Model 4	Model 5
Female applicant	2.476 *** (0.163)	0.471 *** (0.121)	0.245 (0.172)	-0.376 (0.477)	-0.949 * (0.410)
Female applicant × STEM program			0.389 † (0.228)		
Proportion male faculty in dept.				-1.567 (2.760)	
Female applicant × proportion male faculty				1.246 † (0.657)	
Proportion male students in dept.					3.989 (3.661)
Female applicant × proportion male students					2.610 *** (0.727)
Disadvantaged		0.228 (0.376)	0.214 (0.376)	0.213 (0.377)	0.204 (0.378)
Graduated in an earlier year		-2.657 *** (0.279)	-2.653 *** (0.279)	-2.665 *** (0.279)	-2.667 *** (0.278)
Log family home worth		0.480 *** (0.106)	0.480 *** (0.106)	0.482 *** (0.106)	0.481 *** (0.105)
College graduates in residential area		-0.944 (1.375)	-0.959 (1.375)	-0.951 (1.372)	-0.944 (1.370)
High school ranking		-0.014 *** (0.003)	-0.014 *** (0.003)	-0.015 *** (0.003)	-0.014 *** (0.003)
Private high school attendance		-2.495 *** (0.130)	-2.494 *** (0.130)	-2.500 *** (0.130)	-2.496 *** (0.130)
High school grade average		0.619 *** (0.016)	0.619 *** (0.016)	0.619 *** (0.016)	0.618 *** (0.016)
Dossier page length		0.009 *** (0.001)	0.009 *** (0.001)	0.009 *** (0.001)	0.009 *** (0.001)
GSAT		0.029 † (0.015)	0.028 † (0.015)	0.029 † (0.015)	0.028 † (0.015)
# of applications submitted to NTU ( <i>ref.one</i> ):					
Two		-0.076 (0.171)	-0.075 (0.171)	-0.079 (0.170)	-0.084 (0.170)
Three		0.235 (0.171)	0.237 (0.171)	0.237 (0.171)	0.236 (0.171)
Four		0.605 ** (0.187)	0.606 ** (0.187)	0.602 ** (0.187)	0.599 ** (0.187)
Five		0.385 † (0.202)	0.387 † (0.202)	0.387 † (0.202)	0.383 † (0.201)
Year 2023	0.426 (0.148)	0.420 *** (0.104)	0.423 *** (0.104)	0.409 *** (0.109)	0.469 *** (0.109)
Intercept	81.681 *** (0.134)	25.795 *** (1.837)	25.876 *** (1.838)	26.943 *** (2.754)	23.630 *** (2.769)
Number of observations	8396	8396	8396	8396	8396

Note: Model results presented here are based on estimations from 20 imputed datasets. All models include department fixed effects and are clustered by applicants. Numbers in parentheses are clustered standard errors.  
 \*\*\*  $p < 0.001$ ; \*\*  $p < 0.01$ ; \*  $p < 0.05$ ; †  $p < 0.1$

Table S4: Department Fixed Effects Models Predicting Interview Scores

	Model 1	Model 2	Model 3	Model 4	Model 5
Female applicant	2.175 *** (0.212)	1.059 *** (0.202)	0.767 ** (0.273)	-0.310 (0.615)	-0.100 (0.732)
Female applicant × STEM program			0.641 † (0.379)		
Proportion male faculty in dept.				10.627 ** (3.905)	
Female applicant × proportion male faculty in dept.				2.148 * (0.940)	
Proportion male students in dept.					-10.075 † (5.376)
Female applicant × proportion male students in dept.					2.397 (1.484)
Disadvantaged		-0.411 (0.613)	-0.437 (0.614)	-0.444 (0.612)	-0.432 (0.614)
Graduated in an earlier year		-1.366 *** (0.362)	-1.354 *** (0.362)	-1.393 *** (0.362)	-1.370 *** (0.362)
Log family home worth		0.388 * (0.183)	0.386 * (0.184)	0.385 * (0.183)	0.384 * (0.183)
College graduates in residential area		0.739 (2.156)	0.729 (2.158)	0.802 (2.156)	0.648 (2.159)
High school ranking		-0.008 † (0.004)	-0.008 † (0.004)	-0.008 † (0.004)	-0.008 † (0.004)
Private high school attendance		-2.001 *** (0.239)	-1.997 *** (0.238)	-2.011 *** (0.239)	-2.011 *** (0.238)
High school grade average		0.290 *** (0.024)	0.289 *** (0.024)	0.289 *** (0.024)	0.289 *** (0.024)
Dossier page length		0.011 *** (0.002)	0.011 *** (0.002)	0.011 *** (0.002)	0.011 *** (0.002)
GSAT		0.032 (0.022)	0.031 (0.022)	0.033 (0.022)	0.033 (0.022)
# of applications submitted to NTU ( <i>ref.one</i> ):					
Two		0.367 (0.302)	0.373 (0.302)	0.352 (0.302)	0.370 (0.302)
Three		0.448 (0.311)	0.456 (0.311)	0.436 (0.312)	0.460 (0.312)
Four		0.781 * (0.344)	0.796 * (0.344)	0.766 * (0.344)	0.789 * (0.344)
Five		0.617 † (0.341)	0.624 † (0.340)	0.611 † (0.341)	0.620 † (0.340)
Year 2023	0.025 (0.200)	0.011 (0.185)	0.013 (0.185)	0.152 (0.191)	-0.049 (0.189)
Intercept	83.046 *** (0.185)	52.754 *** (2.574)	52.903 *** (2.567)	46.061 *** (3.642)	57.763 *** (3.693)
Number of observations	5249	5249	5249	5249	5249

Note: Model results presented here are based on estimations from 20 imputed datasets. All models include department fixed effects and are clustered by applicants. Numbers in parentheses are clustered standard errors.  
 \*\*\*  $p < 0.001$ ; \*\*  $p < 0.01$ ; \*  $p < 0.05$ ; †  $p < 0.1$

Table S5: Department Fixed Effects Models Predicting Major-Specific Test Scores

	Model 1	Model 2	Model 3	Model 4	Model 5
Female applicant	-3.224 *** (0.607)	-4.489 *** (0.586)	-0.808 (0.958)	2.499 (1.937)	4.266 * (1.682)
Female applicant × STEM program			-4.180 *** (1.147)		
Proportion male faculty in dept.				0.882 (15.537)	
Female applicant × Proportion male faculty in dept.				-8.879 *** (2.606)	
Proportion male students in dept.					25.725 (24.514)
Female applicant × Proportion male students in dept.					-12.803 *** (2.565)
Disadvantaged		-7.324 *** (1.542)	-7.211 *** (1.539)	-7.322 *** (1.557)	-7.320 *** (1.556)
Graduated in an earlier year		-0.013 (0.966)	0.046 (0.968)	0.072 (0.964)	0.065 (0.964)
Log family home worth		0.175 (0.465)	0.185 (0.465)	0.173 (0.464)	0.167 (0.464)
College graduates in residential area		-7.803 (5.464)	-7.650 (5.459)	-7.386 (5.458)	-7.088 (5.458)
High school ranking		-0.087 *** (0.014)	-0.086 *** (0.014)	-0.086 *** (0.014)	-0.086 *** (0.014)
Private high school attendance		-3.138 *** (0.639)	-3.150 *** (0.638)	-3.129 *** (0.638)	-3.149 *** (0.638)
High school grade average		0.613 *** (0.061)	0.620 *** (0.061)	0.618 *** (0.061)	0.624 *** (0.061)
Dossier page length		0.004 (0.004)	0.004 (0.004)	0.004 (0.004)	0.004 (0.004)
GSAT		0.446 *** (0.060)	0.447 *** (0.060)	0.445 *** (0.061)	0.440 *** (0.060)
# of applications submitted to NTU ( <i>ref.one</i> )					
Two		-1.344 † (0.687)	-1.306 † (0.687)	-1.247 † (0.689)	-1.238 † (0.686)
Three		0.341 (0.697)	0.368 (0.695)	0.408 (0.696)	0.444 (0.695)
Four		-1.689 * (0.838)	-1.650 * (0.838)	-1.600 † (0.842)	-1.554 † (0.840)
Five		-1.174 (0.855)	-1.135 (0.856)	-1.085 (0.857)	-1.014 (0.856)
Year 2023	-2.141 (0.507)	-2.158 *** (0.468)	-2.167 *** (0.468)	-2.156 *** (0.468)	-1.954 ** (0.618)
Intercept	65.196 (0.404)	-20.535 ** (6.927)	-21.699 ** (6.929)	-22.217 (14.568)	-40.542 * (19.367)
Number of observations	3713	3713	3713	3713	3713

Note: Model results presented here are based on estimations from 20 imputed datasets. All models include department fixed effects and are clustered by applicants. Numbers in parentheses are clustered standard errors.  
 \*\*\*  $p < 0.001$ ; \*\*  $p < 0.01$ ; \*  $p < 0.05$ ; †  $p < 0.1$

Table S6: Department fixed effects models predicting dossier scores, excluding GPA and dossier length

	Model 1	Model 2	Model 3	Model 4	Model 5
Female applicant	2.476 *** (0.163)	2.404 *** (0.146)	2.050 *** (0.221)	1.385 * (0.567)	0.562 (0.494)
Female applicant × STEM program			0.610 * (0.282)		
Proportion male faculty in dept.				2.837 (3.368)	
Female applicant × proportion male faculty				1.494 † (0.776)	
Proportion male students in dept.					6.151 (4.431)
Female applicant × proportion male students					3.379 ** (0.866)
Disadvantaged		0.908 * (0.456)	0.885 † (0.456)	0.891 † (0.457)	0.874 † (0.459)
Graduated in an earlier year		-4.290 *** (0.264)	-4.284 *** (0.264)	-4.303 *** (0.264)	-4.302 * (0.263)
Log family home worth		-0.005 (0.136)	-0.005 (0.136)	-0.005 (0.136)	-0.003 (0.136)
College graduates in residential area		-0.484 (1.639)	-0.506 (1.639)	-0.470 (1.636)	-0.476 (1.636)
High school ranking		-0.001 (0.003)	-0.001 (0.003)	-0.001 (0.003)	-0.001 (0.003)
Private high school attendance		-1.368 *** (0.161)	-1.367 *** (0.161)	-1.375 *** (0.161)	-1.371 * (0.161)
GSAT		0.272 *** (0.016)	0.271 *** (0.016)	0.272 *** (0.016)	0.271 * (0.016)
# of applications submitted to NTU ( <i>ref. one</i> ):					
Two		-0.190 (0.203)	-0.190 (0.203)	-0.198 (0.203)	-0.201 (0.203)
Three		0.249 (0.212)	0.252 (0.211)	0.245 (0.212)	0.250 (0.211)
Four		0.723 ** (0.238)	0.726 ** (0.238)	0.716 ** (0.238)	0.716 ** (0.238)
Five		1.031 *** (0.244)	1.033 *** (0.244)	1.031 *** (0.244)	1.028 * (0.243)
Year 2023	0.426 *** (0.148)	0.289 * (0.135)	0.294 * (0.135)	0.325 * (0.139)	0.360 * (0.141)
Intercept		57.696 *** (1.727)	57.789 *** (1.727)	55.685 *** (3.015)	54.235 * (3.070)
Number of observations		8396	8396	8396	8396

Note: Model results are based on estimations from 20 imputed datasets. All models include department fixed effects and are clustered by applicants. Numbers in parentheses are clustered standard errors.

\*\*\*  $p < 0.001$ ; \*\*  $p < 0.01$ ; \*  $p < 0.05$ ; †  $p < 0.1$

Table S7. Department Fixed Effects Models Predicting GSAT Scores

	Model 1	Model 2	Model 3	Model 4	Model 5
Female applicant	0.107 (0.198)	-0.674 *** (0.126)	-0.766 *** (0.189)	-0.503 (0.387)	-0.470 (0.365)
Female applicant × STEM program			0.159 (0.240)		
Proportion male faculty in dept.				-9.522 ** (3.166)	
Female applicant × proportion male faculty				-0.240 (0.532)	
Proportion male students in dept.					10.905 ** (3.976)
Female applicant × proportion male students					-0.375 (0.611)
Disadvantaged		-17.636 *** (0.707)	-17.641 *** (0.708)	-17.616 *** (0.707)	-17.617 *** (0.708)
Graduated in an earlier year		-0.140 (0.191)	-0.138 (0.191)	-0.129 (0.191)	-0.142 (0.191)
Log family home worth		-0.063 (0.123)	-0.063 (0.123)	-0.058 (0.123)	-0.061 (0.123)
College graduates in residential area		0.836 (1.877)	0.830 (1.878)	0.795 (1.877)	0.914 (1.885)
High school ranking		-0.021 *** (0.003)	-0.021 *** (0.003)	-0.021 *** (0.003)	-0.021 *** (0.003)
Private high school attendance		0.032 (0.118)	0.032 (0.118)	0.035 (0.118)	0.035 (0.118)
High school GPA		0.313 *** (0.019)	0.313 *** (0.019)	0.314 *** (0.019)	0.313 *** (0.019)
Dossier page length		0.001 (0.001)	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)
# of applications submitted to NTU ( <i>ref.</i> One)					
Two		1.462 *** (0.177)	1.462 *** (0.177)	1.470 *** (0.176)	1.459 *** (0.176)
Three		1.917 *** (0.197)	1.917 *** (0.197)	1.926 *** (0.197)	1.913 *** (0.197)
Four		2.333 *** (0.188)	2.333 *** (0.188)	2.340 *** (0.188)	2.331 *** (0.188)
Five		2.156 *** (0.218)	2.156 *** (0.218)	2.157 *** (0.218)	2.155 *** (0.218)
Year 2023	0.247 (0.170)	0.216 * (0.109)	0.217 * (0.108)	0.116 (0.113)	0.291 ** (0.108)
Intercept	90.704 *** (0.153)	64.338 *** (1.949)	64.366 *** (1.945)	71.035 *** (2.898)	57.903 *** (2.917)
Number of observations	8478	8478	8478	8478	8478

Note: Model results are based on estimations from 20 imputed datasets. All models include department fixed effects and are clustered by applicants. Numbers in parentheses are clustered standard errors.

\*\*\*  $p < 0.001$ ; \*\*  $p < 0.01$ ; \*  $p < 0.05$ ; †  $p < 0.1$

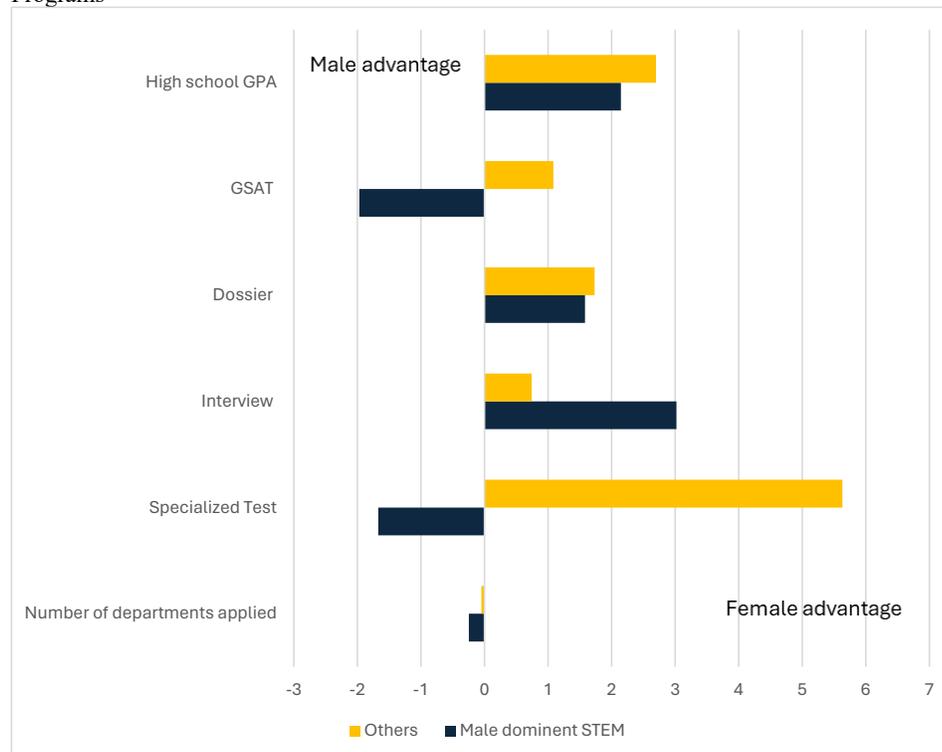
Table S8: Department Fixed Effect Models Predicting Positive Instead of Negative Changes in Admission Outcomes

	Model 1	Model 2	Model 3	Model 4	Model 5
Female applicant	0.183 *** (0.026)	0.061 * (0.025)	0.163 *** (0.038)	0.155 * (0.076)	0.338 *** (0.076)
Female applicant × STEM program			-0.167 *** (0.047)		
Proportion male faculty in dept.				-0.120 (0.669)	
Female applicant × proportion male faculty in dept.				-0.137 (0.105)	
Proportion male students in dept.					-0.137 (0.830)
Female applicant × proportion male students in dept.					-0.501 *** (0.130)
Disadvantaged		0.426 *** (0.062)	0.432 *** (0.061)	0.428 *** (0.062)	0.426 *** (0.061)
Graduated in an earlier year		-0.060 (0.040)	-0.061 (0.040)	-0.059 (0.040)	-0.059 (0.040)
Log family home worth		0.053 * (0.022)	0.049 * (0.022)	0.052 * (0.022)	0.049 * (0.022)
College graduates in residential area		-0.117 (0.262)	-0.118 (0.261)	-0.111 (0.262)	-0.083 (0.262)
High school ranking		0.000 (0.001)	0.000 (0.001)	0.000 (0.001)	0.000 (0.001)
Private high school attendance		-0.285 *** (0.027)	-0.280 *** (0.027)	-0.285 *** (0.027)	-0.284 *** (0.027)
High school grade average		0.027 *** (0.003)	0.027 *** (0.003)	0.027 *** (0.003)	0.027 *** (0.003)
Dossier page length		0.001 *** (0.000)	0.001 *** (0.000)	0.001 *** (0.000)	0.001 *** (0.000)
# of applications submitted to NTU ( <i>ref:one</i> ):					
Two		-0.092 ** (0.034)	-0.092 ** (0.034)	-0.091 ** (0.034)	-0.089 ** (0.034)
Three		-0.096 ** (0.034)	-0.096 ** (0.034)	-0.096 ** (0.034)	-0.097 ** (0.034)
Four		-0.188 *** (0.037)	-0.189 *** (0.037)	-0.187 *** (0.037)	-0.186 *** (0.037)
Five		-0.164 *** (0.038)	-0.164 *** (0.038)	-0.164 *** (0.038)	-0.163 *** (0.038)
Year 2023		0.001 (0.022)	-0.002 (0.022)	-0.001 (0.023)	-0.006 (0.022)
Intercept	0.424 *** (0.016)	-1.984 *** (0.256)	-1.964 *** (0.256)	-1.914 *** (0.545)	-1.942 *** (0.554)
Number of observations	2608	2608	2608	2608	2608

Note: Model results presented here are based on estimations from 20 imputed datasets. All models include department fixed effects and are clustered by applicants. Numbers in parentheses are clustered standard errors. \*\*\*  $p < 0.001$ ; \*\*  $p < 0.01$ ; \*  $p < 0.05$ ; †  $p < 0.1$

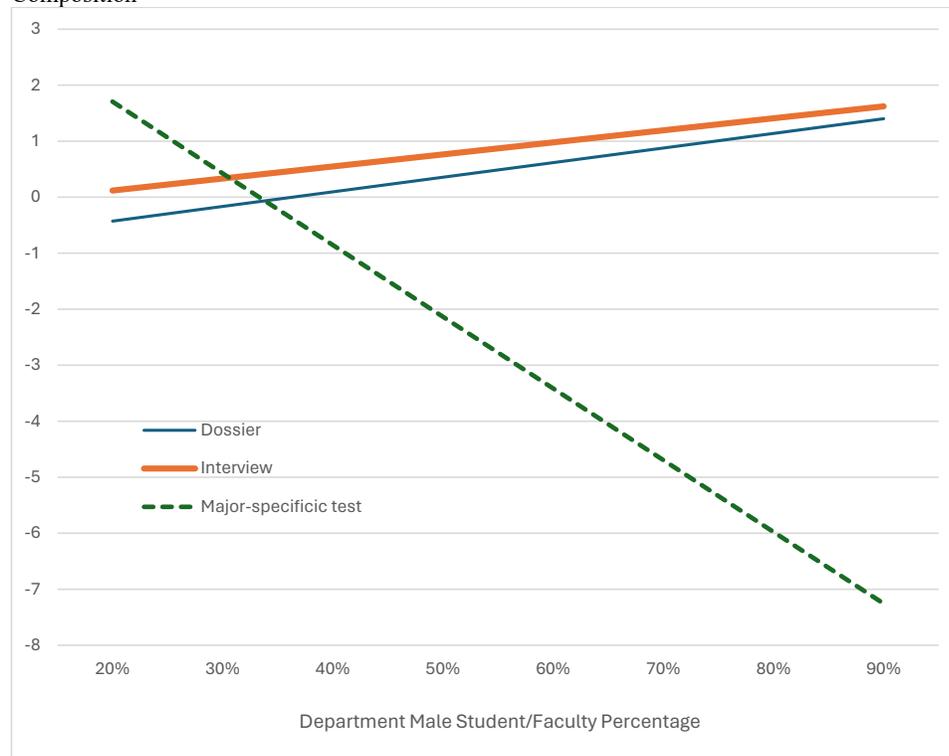


Figure S2: Gender Differences between Applications to Male-dominated STEM and Other Programs



Note: The gender differences are calculated as the average of female applications minus the average of male applications, thus a negative number indicating the value is higher for men's applications. All gender differences are statistically significant at the 0.05 alpha level except for the total number of departments applied among applications to "other programs." Male-dominated STEM programs are defined as STEM programs with 60% or more male students.

Figure S3: Marginal Effects of Being Female on Evaluation Scores by Department Gender Composition



Note: Values are calculated from Model 5 in Table 1 (for the dossier score), Model 4 in Table 2 (for the interview score), and Model 5 in Table 3 (for the major-specific test score).